

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319424

Luminaire Tested: **GAN-SA0D-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75234 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

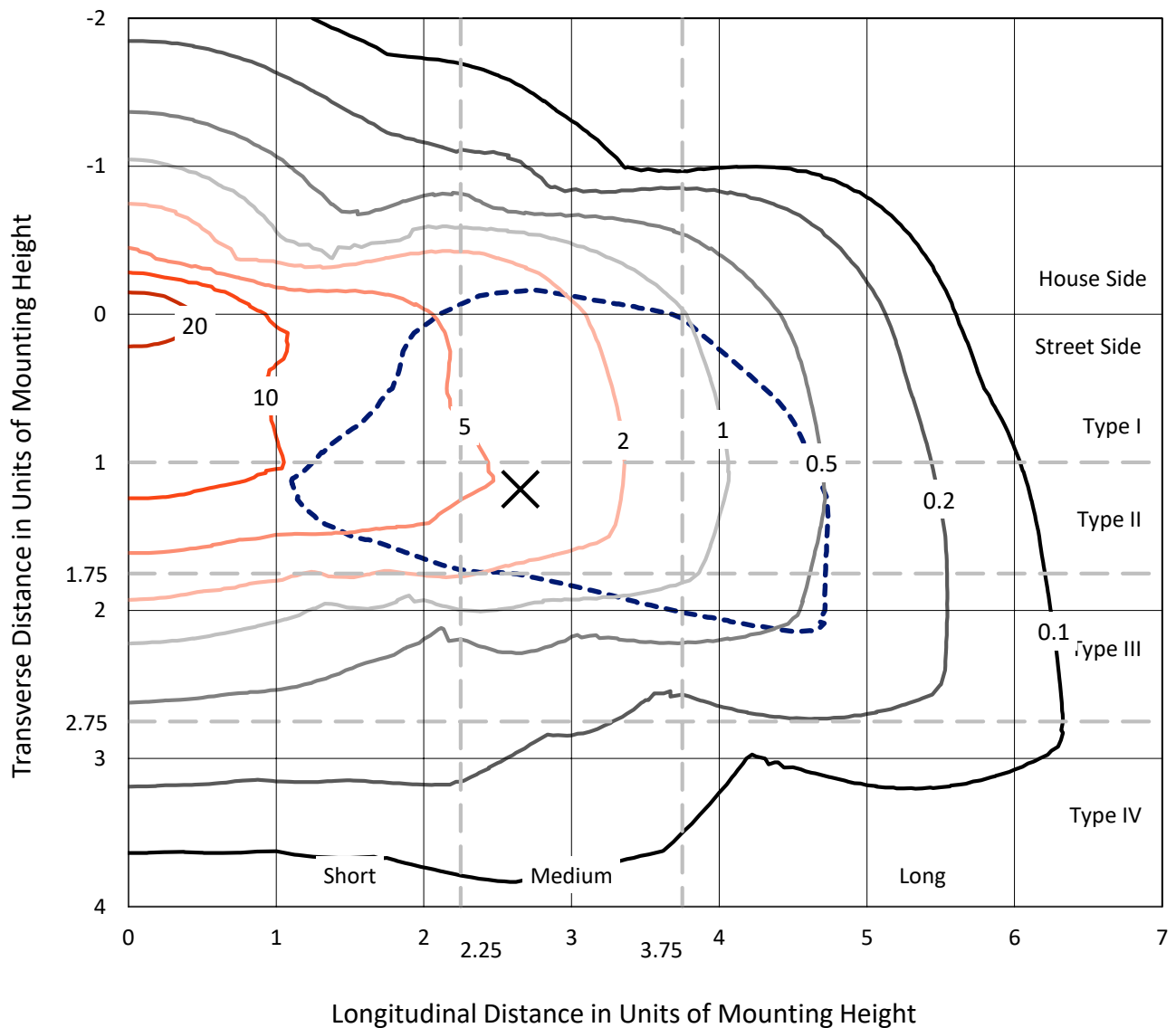
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

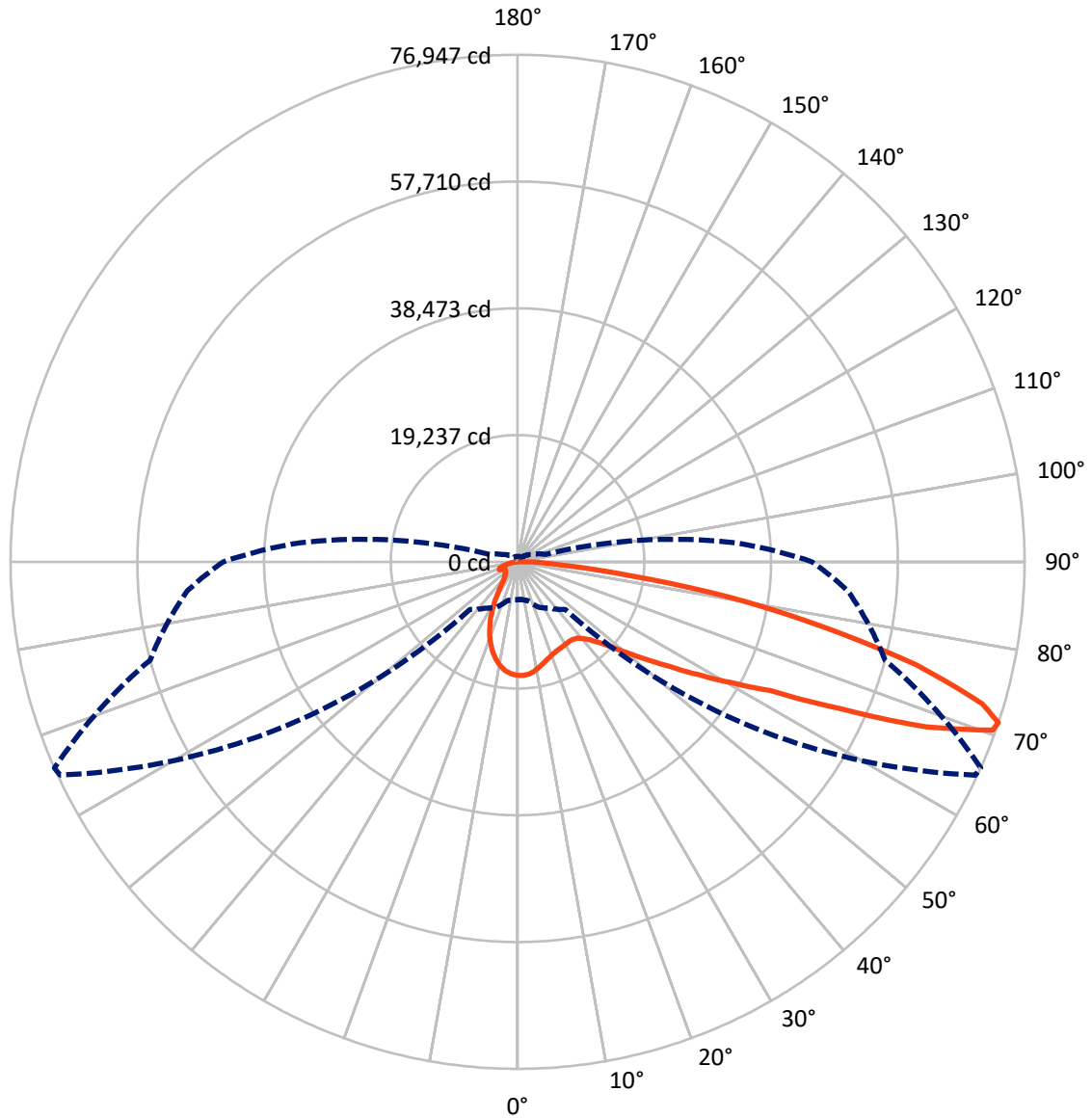
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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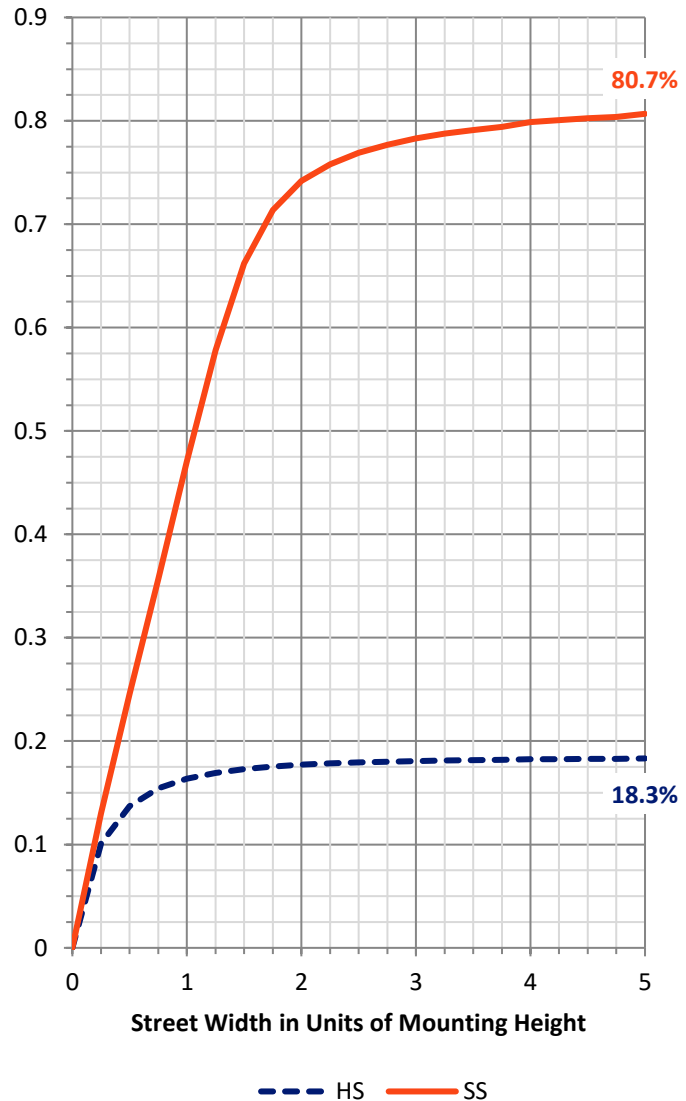
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13942.9	0.0	13942.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	61291.1	0.0	61291.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	75234.0	0.0	75234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1517.1	2.0
10°-20°	3638.6	4.8
20°-30°	4887.5	6.5
30°-40°	6429.4	8.5
40°-50°	9353.1	12.4
50°-60°	14610.6	19.4
60°-70°	18302.2	24.3
70°-80°	13960.5	18.6
80°-90°	2535.1	3.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	75234.0	100.0
0°-180°	75234.0	100.0

Coefficient of Utilization



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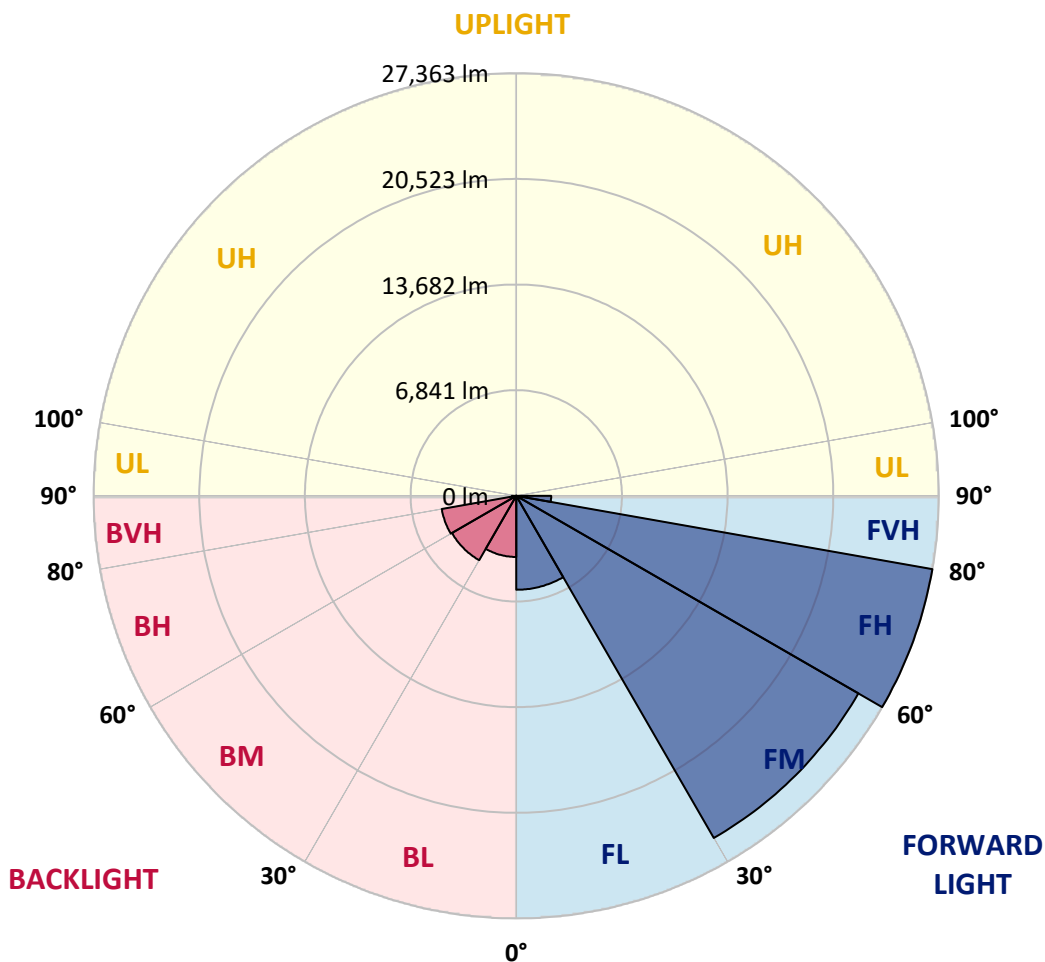
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6083.7	8.1			
FM (30°-60°)	25583.3	34.0			
FH (60°-80°)	27363.4	36.4			G5
FVH (80°-90°)	2260.7	3.0			G5
BL (0°-30°)	3959.4	5.3	B4/5000		
BM (30°-60°)	4809.9	6.4	B3/5000		
BH (60°-80°)	4899.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	274.4	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7
2.5°	16915.2	16889.2	16967.1	17047.6	17078.8	17130.8	17208.7	17252.8	17250.2	17258.0	17232.1
5°	15793.0	15759.3	15915.1	16042.4	16286.6	16561.9	16897.0	17135.9	17141.1	17276.2	17312.6
7.5°	14730.6	14707.3	14886.5	15091.7	15374.8	15795.6	16338.5	16852.8	16884.0	17250.2	17377.5
10°	13878.6	13873.4	14047.5	14270.9	14600.8	15070.9	15694.3	16447.6	16494.4	17125.6	17387.9
12.5°	13213.7	13224.1	13374.7	13629.3	13977.3	14468.3	15143.6	15993.0	16068.4	16928.1	17328.2
15°	12722.7	12764.3	12886.4	13143.5	13486.4	13985.1	14678.7	15572.2	15686.5	16707.4	17294.4
17.5°	12442.2	12489.0	12574.7	12787.7	13109.8	13590.3	14247.5	15226.8	15330.7	16538.5	17297.0
20°	12359.1	12398.0	12447.4	12577.3	12850.0	13286.4	13907.2	14915.1	15026.7	16403.4	17323.0
22.5°	12522.7	12551.3	12556.5	12546.1	12712.3	13068.2	13660.4	14686.5	14806.0	16315.1	17341.2
25°	12873.4	12912.4	12883.8	12787.7	12733.1	12951.3	13533.2	14535.8	14655.3	16250.2	17304.8
27.5°	13400.7	13405.9	13382.5	13257.8	13000.7	12964.3	13494.2	14447.5	14561.8	16174.9	17229.5
30°	14117.6	14151.4	14109.8	13941.0	13520.2	13172.1	13541.0	14361.8	14465.7	16078.7	17107.4
32.5°	14956.6	15039.7	15037.1	14860.5	14257.9	13637.1	13733.2	14309.8	14390.4	15977.4	16959.3
35°	15826.8	15941.1	16154.1	16078.7	15333.3	14372.2	14102.0	14392.9	14447.5	15964.5	16855.4
37.5°	16730.7	16845.0	17284.0	17486.6	16613.8	15424.2	14683.9	14686.5	14712.4	16122.9	16847.6
40°	17676.2	17798.3	18458.1	18985.4	18273.7	16756.7	15621.6	15299.5	15270.9	16512.5	17000.9
42.5°	19001.0	19110.1	19902.3	20575.1	20115.3	18463.3	16917.8	16245.0	16185.2	17276.2	17491.8
45°	20676.4	20769.9	21611.5	22331.0	22094.6	20411.4	18546.4	17546.4	17536.0	18549.0	18486.7
47.5°	22668.7	22741.4	23497.3	24193.5	24279.2	22653.1	20593.3	19554.3	19385.4	20294.6	20027.0
50°	24744.1	24824.7	25339.0	26087.1	26723.5	25653.3	23227.2	22014.1	21788.1	22598.6	22208.9
52.5°	26118.2	26224.7	26671.5	27619.6	29471.6	28941.7	26341.6	24996.1	24653.2	25390.9	25092.2
55°	25505.2	25744.2	26427.3	27946.9	31669.2	33965.4	30183.4	28474.2	28087.2	28700.2	28523.5
57.5°	22718.1	23045.3	23977.9	26323.4	31978.3	38391.6	35991.5	32570.5	32297.8	32121.1	32201.7
60°	17624.3	17938.6	19094.5	22151.8	29824.9	41622.9	44732.2	37620.1	37225.3	35555.1	35627.8
62.5°	12473.4	12314.9	13107.2	15343.6	24235.0	42002.2	54678.1	44373.7	43074.9	39181.2	38861.7
65°	9512.2	9475.8	9831.7	10543.4	14678.7	37464.3	60603.1	55724.9	53696.3	43446.4	42693.1
67.5°	7816.0	7751.0	8101.7	9138.1	9452.4	24170.1	60733.0	68894.5	66902.1	48755.8	47124.5
70°	6426.3	6353.6	6680.9	8018.6	8735.5	12257.8	51114.3	76606.5	76500.0	55478.2	50470.1
71°	5761.3	5709.4	6101.6	7587.4	8582.3	10216.1	44132.1	76627.3	76946.8	57753.6	50272.7
72.5°	4691.2	4709.3	5124.9	6753.6	8468.0	9021.2	32435.4	73055.7	73731.1	59922.6	48477.8
75°	3117.0	3132.6	3678.1	5195.1	8210.8	8826.4	17826.9	61301.9	62543.5	58623.8	44236.0
77.5°	2093.6	2088.4	2459.9	3563.8	7153.6	8826.4	10452.5	45849.1	47212.8	46646.6	34103.1
80°	1441.6	1431.2	1693.6	2459.9	5415.9	8932.9	8080.9	32131.5	32544.5	25190.9	13860.5
82.5°	883.2	891.0	1106.6	1737.8	3685.9	8039.4	7629.0	17520.4	17071.0	7065.3	3462.5
85°	506.5	503.9	706.5	1176.7	2366.4	6784.8	7439.3	7540.6	6917.2	2127.4	1252.0
87.5°	181.8	194.8	379.2	652.0	1355.9	4724.9	6312.0	3922.3	3535.2	961.1	566.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7	17234.7
2.5°	17213.9	17229.5	17211.3	17107.4	17019.1	16876.2	16795.7	16684.0	16650.2	16634.6	16676.2
5°	17278.8	17284.0	17130.8	16858.0	16551.5	16190.4	15930.7	15611.2	15460.5	15395.6	15437.2
7.5°	17338.6	17315.2	16980.1	16458.0	15891.7	15263.1	14704.7	14192.9	13894.2	13772.1	13782.5
10°	17346.3	17247.6	16710.0	15902.1	15024.1	14102.0	13244.8	12455.2	11956.5	11631.8	11730.5
12.5°	17265.8	17099.6	16312.5	15182.6	13964.4	12707.1	11548.6	10364.2	9652.4	9322.6	9332.9
15°	17203.5	16902.2	15824.2	14335.8	12699.4	11034.3	9452.4	8060.2	7301.7	6964.0	6805.5
17.5°	17151.5	16689.2	15257.9	13382.5	11205.8	9094.0	7192.6	5951.0	5535.3	5436.6	5395.1
20°	17078.8	16463.2	14626.7	12278.6	9504.4	6922.4	5252.2	4639.2	4641.8	4756.1	4771.7
22.5°	16977.5	16206.0	13954.0	11039.5	7678.3	5041.8	4117.1	3940.5	4119.7	4337.9	4376.8
25°	16826.8	15902.1	13205.9	9670.6	5854.8	3875.5	3517.1	3509.3	3727.5	3956.0	3989.8
27.5°	16613.8	15504.7	12374.7	8200.4	4314.5	3293.7	3150.8	3205.4	3366.4	3532.6	3545.6
30°	16328.1	15042.3	11457.7	6649.7	3382.0	2932.6	2917.0	2966.4	3065.1	3182.0	3192.4
32.5°	16013.8	14572.2	10478.5	5148.3	2896.3	2737.8	2753.4	2776.8	2823.5	2870.3	2880.7
35°	15728.1	14091.6	9475.8	3911.9	2665.1	2610.5	2600.1	2594.9	2600.1	2584.5	2587.1
37.5°	15543.7	13694.2	8431.6	3114.4	2532.6	2498.8	2467.7	2428.7	2384.5	2358.6	2363.8
40°	15476.1	13398.1	7374.4	2691.0	2423.5	2400.1	2340.4	2257.3	2205.3	2189.7	2189.7
42.5°	15657.9	13244.8	6353.6	2478.0	2332.6	2293.6	2194.9	2098.8	2059.8	2057.2	2054.7
45°	16213.8	13307.2	5382.1	2361.2	2249.5	2174.1	2044.3	1963.7	1937.8	1943.0	1940.4
47.5°	17211.3	13699.4	4550.9	2283.2	2166.3	2067.6	1922.2	1857.2	1826.1	1826.1	1828.7
50°	18907.5	14616.3	3888.5	2218.3	2096.2	1968.9	1833.9	1753.3	1711.8	1709.2	1709.2
52.5°	21377.7	16258.0	3475.5	2163.7	2018.3	1880.6	1745.5	1644.2	1594.9	1584.5	1579.3
55°	24474.0	18611.3	3361.2	2127.4	1914.4	1784.5	1639.0	1537.7	1483.2	1459.8	1457.2
57.5°	27936.5	21473.8	3587.2	2083.2	1807.9	1670.2	1522.2	1426.0	1368.9	1340.3	1337.7
60°	31440.6	24598.7	4509.3	2020.9	1719.6	1545.5	1402.7	1314.4	1257.2	1226.0	1220.8
62.5°	34949.8	27892.3	6392.5	2015.7	1657.2	1426.0	1280.6	1205.3	1150.7	1116.9	1109.1
65°	38908.5	31497.7	8532.9	2153.4	1636.4	1317.0	1155.9	1096.2	1049.4	1018.2	1015.6
67.5°	43454.2	35568.1	8327.7	2436.5	1706.6	1218.2	1039.0	992.3	958.5	932.5	929.9
70°	45586.8	34931.7	5176.9	2636.5	1805.3	1122.1	927.3	893.6	867.6	849.4	841.6
71°	44693.2	33167.9	4340.5	2613.1	1794.9	1080.6	883.2	857.2	831.2	815.6	807.8
72.5°	42256.7	30248.3	3621.0	2431.3	1678.0	1005.2	826.0	800.0	776.7	758.5	753.3
75°	37918.8	27014.4	2898.9	1943.0	1337.7	849.4	724.7	696.1	678.0	667.6	657.2
77.5°	27874.2	19278.9	2241.7	1535.1	984.5	693.5	618.2	597.4	579.3	563.7	555.9
80°	10678.5	7467.9	1509.2	1145.5	722.1	548.1	498.7	488.3	470.2	459.8	459.8
82.5°	2875.5	2231.3	805.2	693.5	483.1	400.0	381.8	376.6	361.1	340.3	342.9
85°	1163.7	984.5	452.0	381.8	296.1	236.4	257.2	259.8	241.6	215.6	218.2
87.5°	511.7	418.2	252.0	168.8	129.9	90.9	116.9	116.9	106.5	88.3	80.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)