

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: P319682

Luminaire Tested: **GAN-SA8B-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45804 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

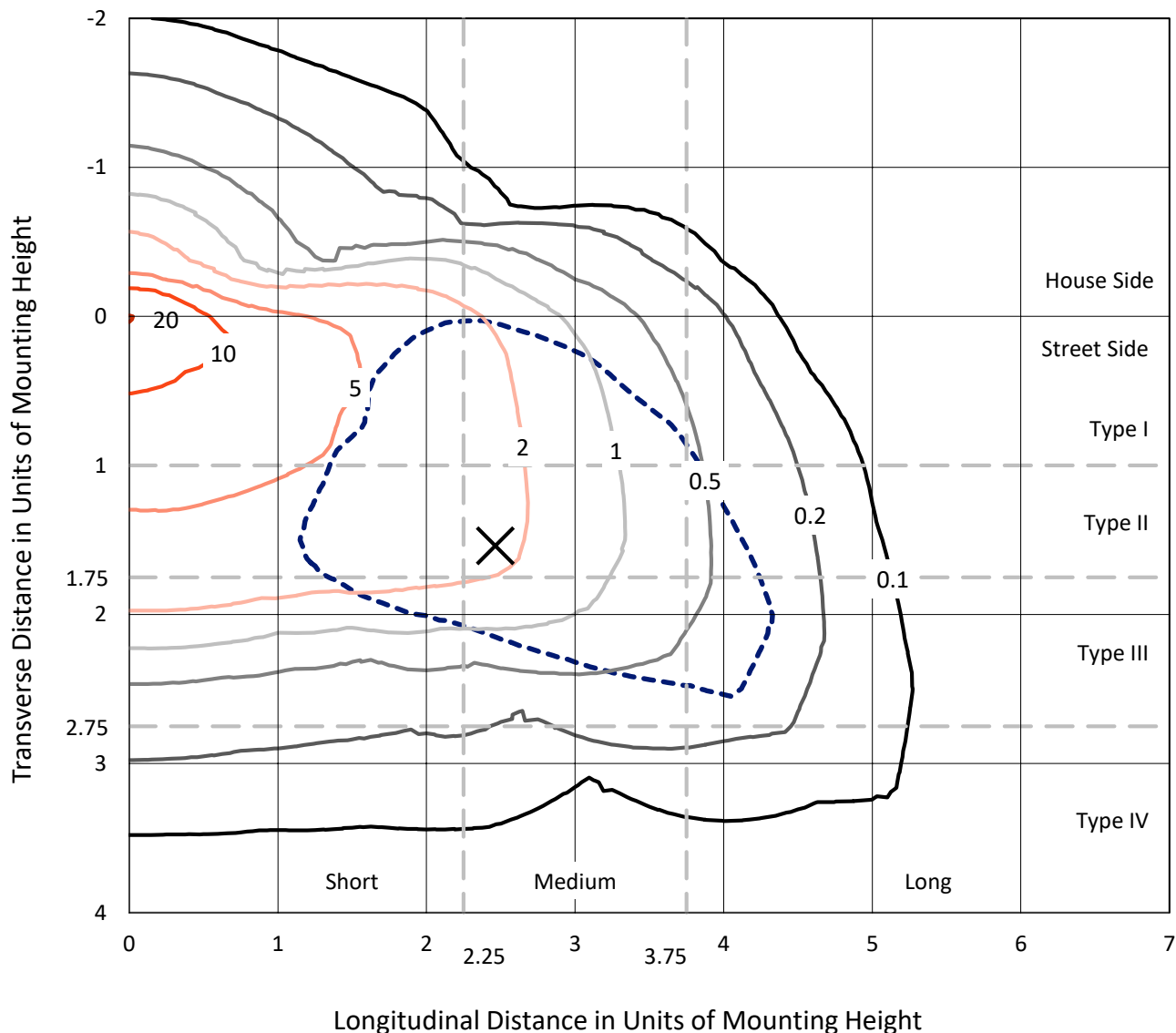
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319682
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Iso-Footcandle Lines of Horizontal Illumination

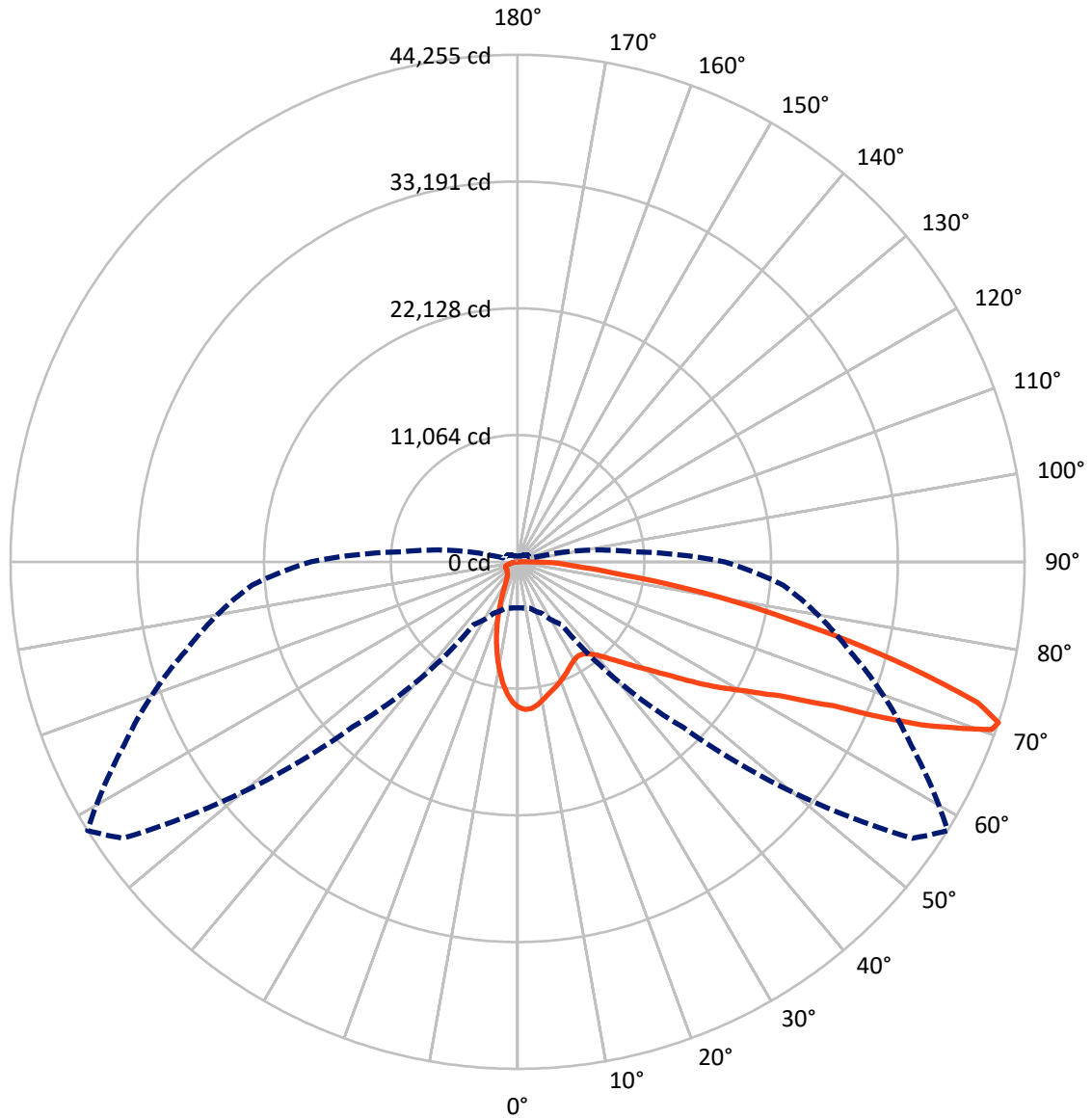
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GAN-SA8B-740-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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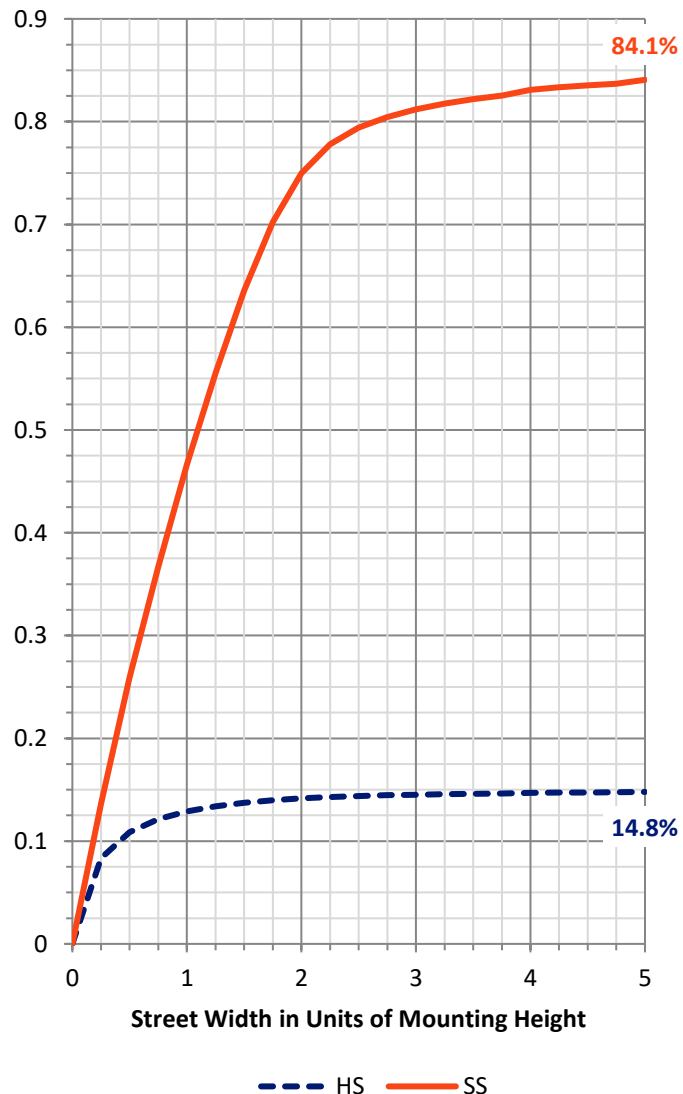
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6848.0	0.0	6848.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	38956.0	0.0	38956.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	45804.0	0.0	45804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1094.8	2.4
10°-20°	2434.5	5.3
20°-30°	3094.0	6.8
30°-40°	3941.1	8.6
40°-50°	5588.7	12.2
50°-60°	8648.7	18.9
60°-70°	11774.1	25.7
70°-80°	7854.7	17.1
80°-90°	1373.3	3.0
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°	45804.0	100.0
0°-180°	45804.0	100.0

Coefficient of Utilization

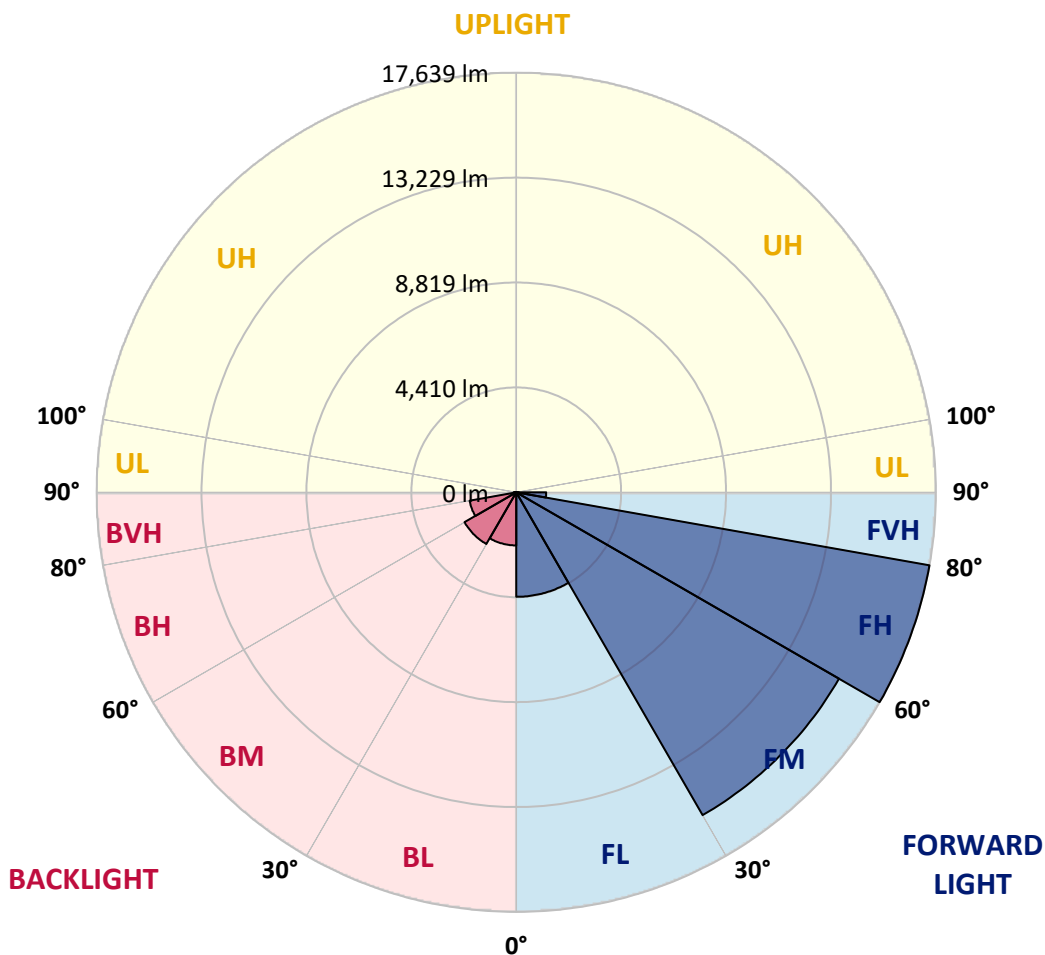


REPORT NUMBER: P319682
 CATALOG NUMBER: GAN-SA8B-740-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4391.1	9.6			
FM (30°-60°)	15667.2	34.2			
FH (60°-80°)	17638.6	38.5			G5
FVH (80°-90°)	1259.2	2.7			G5
BL (0°-30°)	2232.2	4.9	B3/2500		
BM (30°-60°)	2511.4	5.5	B3/5000		
BH (60°-80°)	1990.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	114.1	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8
2.5°	13027.4	13009.9	13016.3	13003.5	12973.2	12942.9	12898.2	12906.2	12843.9	12751.4	12636.5
5°	12781.7	12775.3	12823.2	12850.3	12872.7	12855.1	12842.3	12858.3	12767.4	12639.7	12440.3
7.5°	12266.4	12196.2	12256.8	12347.7	12433.9	12499.3	12585.5	12596.6	12539.2	12405.2	12143.5
10°	11534.0	11467.0	11556.4	11698.4	11870.7	12027.0	12200.9	12232.9	12244.0	12122.8	11805.3
12.5°	10774.5	10723.5	10812.8	11012.3	11297.9	11538.8	11816.4	11864.3	11963.2	11881.8	11492.5
15°	10094.9	10075.7	10184.2	10380.5	10709.1	11077.7	11478.2	11565.9	11733.5	11706.3	11248.4
17.5°	9507.7	9502.9	9585.9	9791.7	10155.5	10621.4	11141.5	11289.9	11538.8	11570.7	11047.4
20°	9070.5	9061.0	9118.4	9270.0	9644.9	10173.0	10777.7	10982.0	11341.0	11452.6	10840.0
22.5°	8836.0	8834.4	8836.0	8907.8	9214.1	9705.6	10423.5	10672.4	11147.9	11358.5	10610.2
25°	8796.1	8791.3	8756.2	8748.2	8922.2	9314.6	10072.5	10347.0	10964.4	11293.1	10391.6
27.5°	8899.8	8906.2	8859.9	8784.9	8820.0	9057.8	9767.8	10061.4	10817.6	11280.3	10240.1
30°	9115.2	9112.0	9072.1	8993.9	8925.3	8962.0	9550.8	9844.4	10718.7	11336.2	10136.3
32.5°	9352.9	9370.5	9362.5	9319.4	9217.3	9070.5	9485.4	9772.6	10690.0	11470.2	10091.7
35°	9638.5	9657.7	9715.1	9748.6	9629.0	9392.8	9625.8	9874.7	10773.0	11722.3	10163.5
37.5°	9909.8	9959.2	10120.4	10262.4	10160.3	9897.0	9999.1	10176.2	11029.8	12119.6	10356.5
40°	10222.5	10265.6	10528.8	10830.4	10814.4	10541.6	10600.6	10718.7	11483.0	12689.2	10705.9
42.5°	10530.4	10616.6	10997.9	11425.5	11548.4	11307.5	11401.6	11463.8	12121.2	13443.9	11315.4
45°	10940.5	11033.0	11562.7	12078.1	12365.3	12229.7	12379.6	12403.6	12923.7	14471.4	12200.9
47.5°	11561.1	11666.4	12283.9	12824.8	13263.6	13277.9	13525.2	13515.7	13925.7	15647.3	13316.2
50°	12528.0	12679.6	13185.4	13691.2	14224.1	14520.8	14851.1	14804.8	15127.1	16899.8	14600.6
52.5°	13794.9	13865.1	14240.0	14613.4	15275.5	15940.8	16414.7	16373.2	16489.7	18187.3	16058.9
55°	15108.0	15160.6	15315.4	15519.6	16409.9	17494.9	18496.9	18431.5	18136.3	19524.4	17499.7
57.5°	16288.7	16395.6	16502.5	16587.0	17552.3	19119.1	20626.9	20631.7	19923.3	20966.7	18988.3
60°	16472.2	16566.3	17273.1	17940.0	19506.8	21285.8	22906.9	22859.0	21772.5	22531.9	20647.6
62.5°	14560.7	14772.9	15953.6	17727.8	21389.5	25249.1	25815.5	25756.5	23983.9	24460.9	22579.8
65°	10434.7	10675.6	12100.4	14766.5	20476.9	29616.1	31064.8	30270.2	26999.4	26833.5	24842.3
67.5°	6019.9	6077.3	6694.8	8836.0	15591.4	29844.2	39072.7	37960.6	31682.3	29525.1	25949.5
70°	4451.5	4449.9	4596.7	5437.5	8437.1	24357.2	42881.2	43878.4	36612.4	30410.6	24384.3
71°	4025.5	4030.3	4194.6	4949.3	6682.0	20387.6	42072.3	44255.0	37911.2	29973.4	23251.5
72.5°	3443.1	3459.1	3687.2	4438.7	5621.0	14059.7	38587.7	41995.7	38527.0	28894.9	21478.9
75°	2611.9	2648.6	2964.5	3741.5	5137.6	7130.4	28320.5	33534.6	34225.5	25496.4	15960.0
77.5°	1863.6	1905.1	2262.4	3146.4	4883.9	5373.7	18966.0	24460.9	25186.9	16339.7	7199.0
80°	1177.5	1227.0	1496.6	2503.4	4588.7	5102.5	11918.5	16441.8	13734.2	5228.5	1831.7
82.5°	690.9	729.2	928.6	1635.4	3747.9	4914.2	7012.3	9113.6	5345.0	1579.6	832.9
85°	400.5	418.0	579.2	1041.9	2722.0	4638.2	5151.9	5094.5	2319.9	772.2	394.1
87.5°	186.7	207.4	343.0	544.1	1511.0	3361.8	4071.8	3518.1	1442.4	362.2	185.1
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°	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8	12690.8
2.5°	12580.7	12553.6	12440.3	12339.8	12234.5	12097.2	11945.7	11926.5	11834.0	11851.5	11819.6
5°	12331.8	12263.2	11990.3	11743.0	11451.1	11189.4	10905.4	10774.5	10586.3	10573.5	10525.6
7.5°	11976.0	11848.3	11425.5	10956.4	10487.4	10040.6	9598.7	9308.3	9011.5	8885.5	8874.3
10°	11575.5	11358.5	10736.3	10042.2	9365.7	8713.1	8081.3	7613.8	7192.6	6993.2	6985.2
12.5°	11195.8	10875.1	10021.5	9076.9	8151.5	7305.9	6439.5	5825.2	5297.1	5120.0	5045.0
15°	10873.5	10421.9	9325.8	8118.0	6994.8	5820.5	4834.4	4188.2	3700.0	3530.9	3499.0
17.5°	10560.8	9980.0	8612.6	7149.5	5791.7	4501.0	3513.3	3033.1	2773.0	2704.4	2702.8
20°	10249.6	9525.3	7867.5	6158.7	4628.6	3366.5	2701.2	2485.8	2398.1	2390.1	2377.3
22.5°	9897.0	9043.4	7084.1	5164.7	3612.3	2647.0	2296.0	2209.8	2198.6	2227.3	2227.3
25°	9566.7	8564.8	6289.5	4191.4	2809.7	2208.2	2050.2	2032.7	2063.0	2114.1	2118.9
27.5°	9258.8	8103.6	5514.1	3326.7	2251.3	1944.9	1879.5	1900.3	1954.5	2013.5	2015.1
30°	9005.1	7668.1	4761.0	2621.4	1901.9	1748.7	1737.5	1779.0	1838.0	1884.3	1895.5
32.5°	8808.9	7296.3	4033.5	2107.7	1673.7	1601.9	1611.5	1646.6	1683.3	1708.8	1726.4
35°	8717.9	6977.2	3361.8	1777.4	1528.5	1488.6	1501.4	1520.5	1536.5	1555.6	1570.0
37.5°	8733.9	6729.9	2761.8	1571.6	1431.2	1410.4	1410.4	1410.4	1410.4	1420.0	1421.6
40°	8882.3	6587.9	2273.6	1440.8	1365.8	1343.4	1325.9	1309.9	1297.2	1303.5	1300.3
42.5°	9262.0	6575.1	1916.2	1357.8	1313.1	1276.4	1241.3	1219.0	1203.0	1209.4	1212.6
45°	9906.6	6734.7	1675.3	1298.8	1263.7	1207.8	1163.1	1139.2	1128.0	1148.8	1152.0
47.5°	10741.0	7082.5	1528.5	1255.7	1217.4	1144.0	1096.1	1073.8	1077.0	1107.3	1115.3
50°	11816.4	7647.3	1458.3	1228.6	1185.5	1089.7	1040.3	1021.1	1030.7	1073.8	1083.4
52.5°	12997.1	8461.0	1466.3	1220.6	1164.7	1049.9	997.2	974.9	990.8	1030.7	1038.7
55°	14359.7	9439.1	1598.7	1231.7	1134.4	1024.3	962.1	923.8	936.6	973.3	979.6
57.5°	15873.8	10559.2	1865.2	1228.6	1096.1	1000.4	925.4	868.0	877.5	899.9	906.3
60°	17450.2	11912.2	2278.4	1238.1	1078.6	971.7	875.9	804.1	801.0	820.1	823.3
62.5°	19342.5	13477.4	2750.7	1244.5	1089.7	935.0	810.5	740.3	730.7	735.5	738.7
65°	21292.2	14610.2	2573.6	1219.0	1124.8	904.7	753.1	678.1	660.5	657.4	658.9
67.5°	21352.9	13396.0	1804.5	1167.9	1139.2	888.7	710.0	625.4	596.7	585.6	584.0
70°	19149.4	10883.0	1405.7	1113.7	1081.8	863.2	670.1	582.4	539.3	521.7	520.1
71°	18074.1	10018.3	1332.3	1086.5	1038.7	837.6	652.6	563.2	518.5	499.4	496.2
72.5°	16387.6	8981.2	1242.9	1043.5	955.7	772.2	619.1	536.1	489.8	467.5	462.7
75°	11760.6	5873.1	1067.4	930.2	791.4	615.9	542.5	481.8	442.0	414.8	411.6
77.5°	4531.3	2337.4	807.3	773.8	606.3	481.8	446.7	416.4	387.7	360.6	359.0
80°	1400.9	1045.1	588.7	582.4	438.8	359.0	347.8	339.8	328.7	300.0	293.6
82.5°	748.3	599.9	405.3	376.5	287.2	239.3	252.1	255.3	256.9	226.6	223.4
85°	357.4	317.5	228.2	213.8	167.5	134.0	154.8	167.5	169.1	138.8	129.2
87.5°	170.7	165.9	106.9	81.4	62.2	44.7	54.2	67.0	73.4	52.7	46.3
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)