

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: McGRAW-EDISON

Report Number: P530690

Luminaire Tested: **GALN-SA5D-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26873 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 309
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

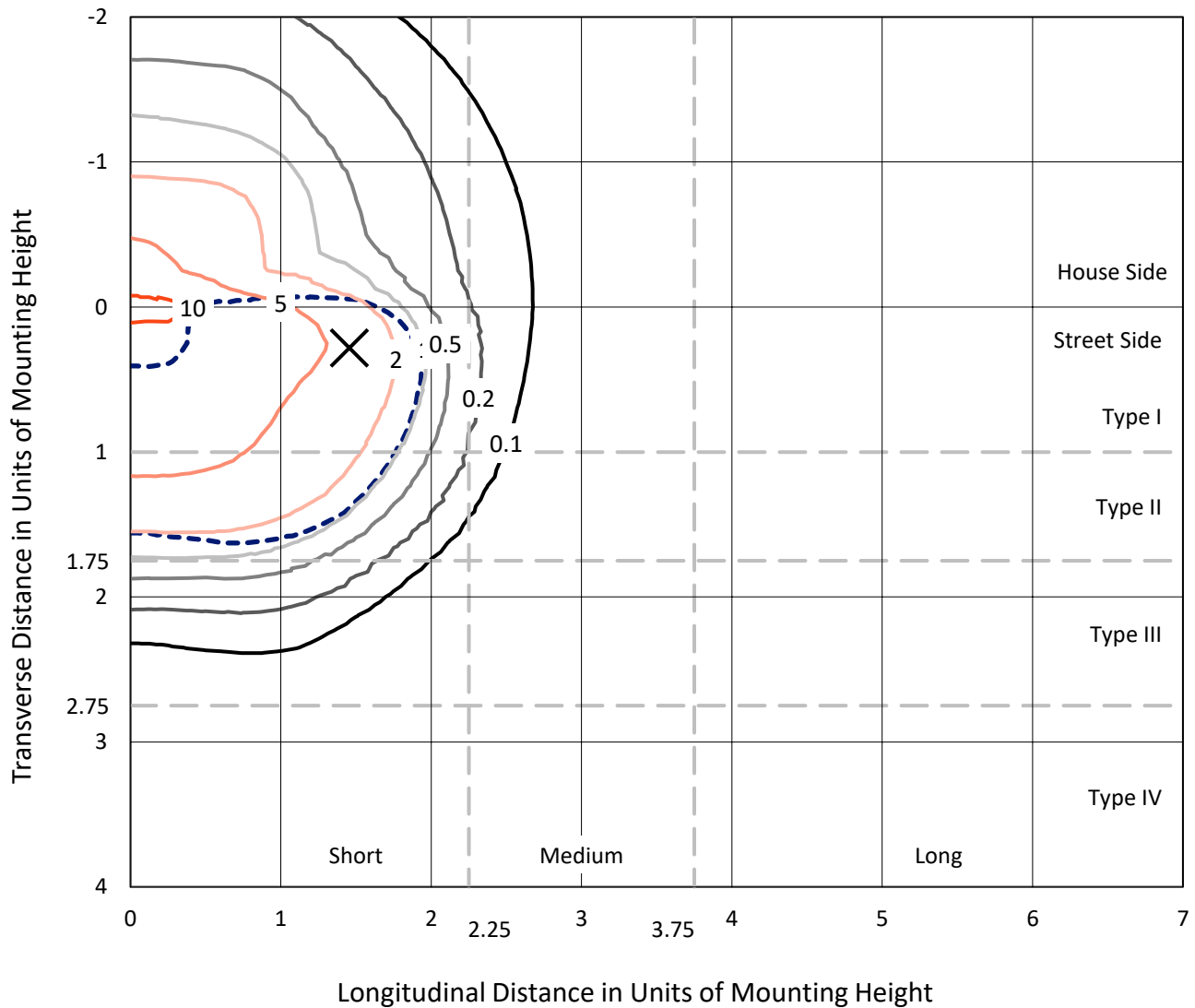


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Iso-Footcandle Lines of Horizontal Illumination

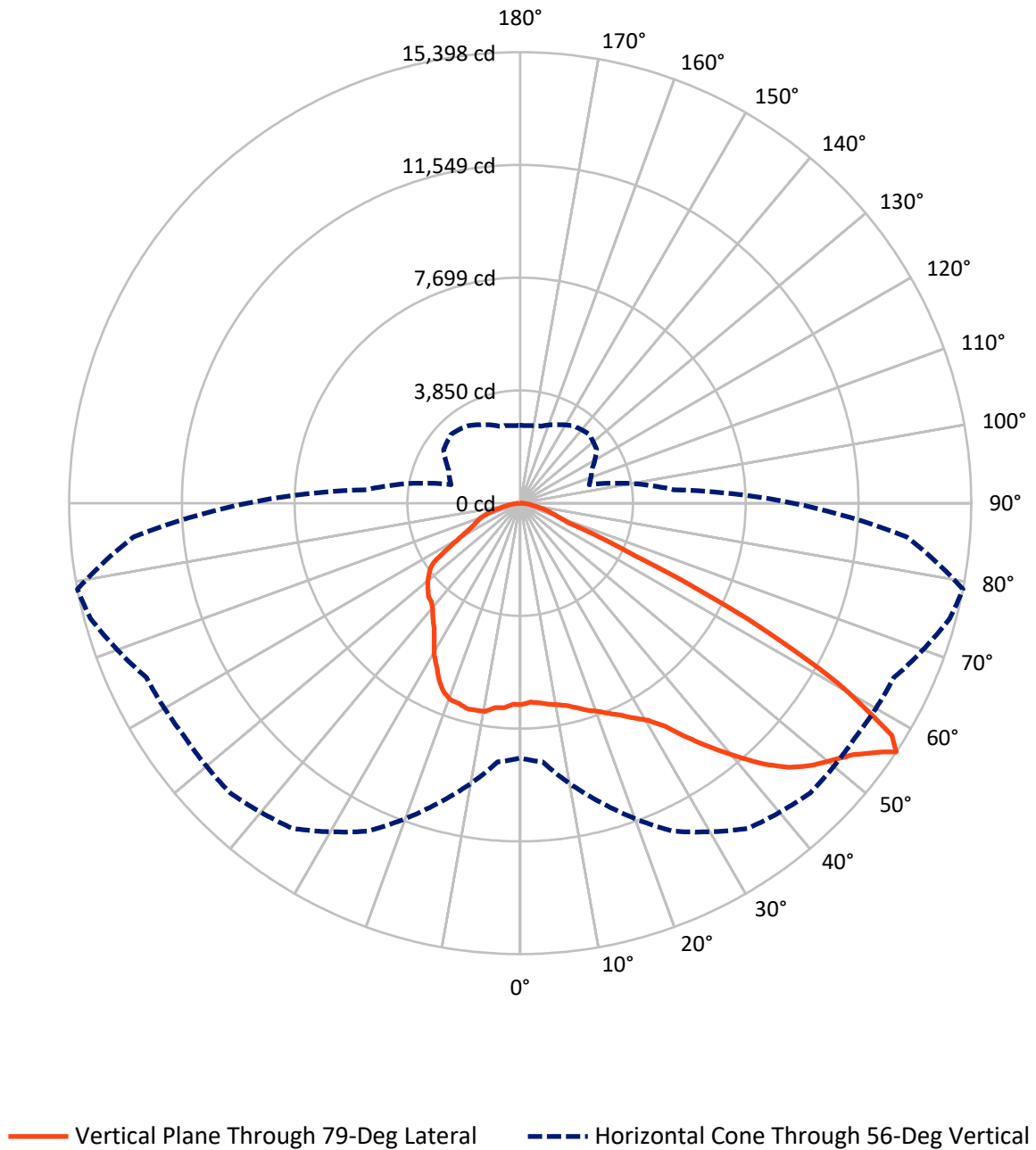
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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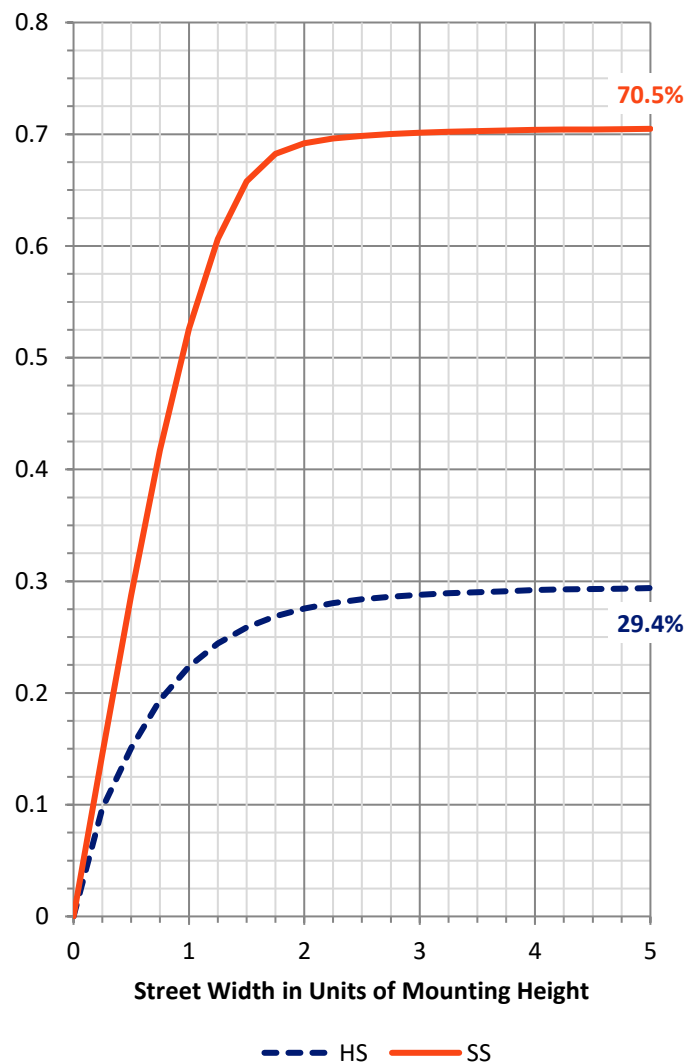
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7936.2	0.0	7936.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	18936.8	0.0	18936.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	26873.0	0.0	26873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.1	2.3
10°-20°	1710.8	6.4
20°-30°	2926.9	10.9
30°-40°	4485.8	16.7
40°-50°	6062.6	22.6
50°-60°	6963.1	25.9
60°-70°	3174.0	11.8
70°-80°	782.5	2.9
80°-90°	142.2	0.5
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°	26873.0	100.0
0°-180°	26873.0	100.0

Coefficient of Utilization



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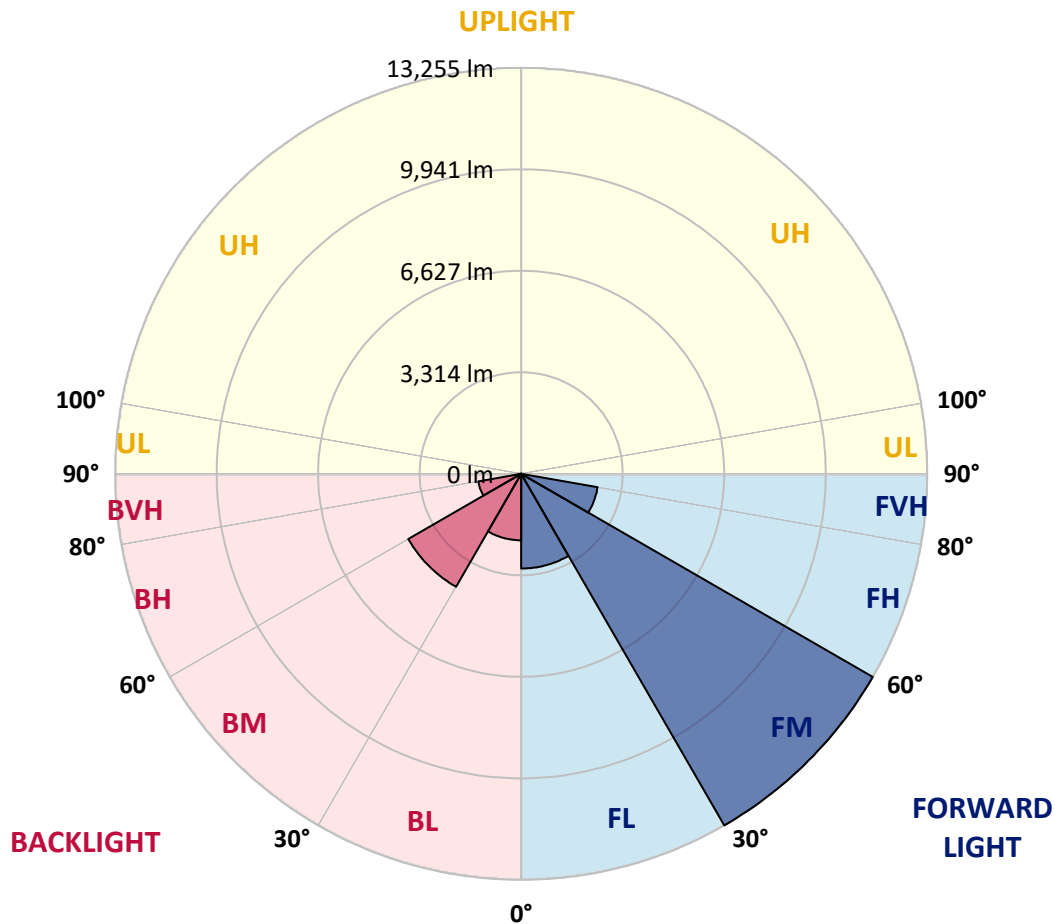
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3092.0	11.5			
FM	(30°-60°)	13254.6	49.3			
FH	(60°-80°)	2533.5	9.4			G2/5000
FVH	(80°-90°)	56.8	0.2			G1/100
BL	(0°-30°)	2170.9	8.1	B3/2500		
BM	(30°-60°)	4256.9	15.8	B3/5000		
BH	(60°-80°)	1423.0	5.3	B3/2500		G3/2500
BVH	(80°-90°)	85.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7
2.5°	6541.0	6524.3	6564.4	6594.5	6631.4	6678.2	6701.7	6715.1	6832.2	6802.1	6892.5
5°	6400.4	6356.9	6387.0	6410.4	6474.0	6530.9	6594.5	6695.0	6802.1	6849.0	6959.4
7.5°	6276.5	6253.1	6246.4	6263.1	6350.2	6423.8	6534.3	6681.6	6855.7	6932.6	6996.2
10°	6072.3	6038.9	6089.1	6199.5	6223.0	6377.0	6504.2	6715.1	6865.7	6999.6	7187.1
12.5°	5982.0	5948.5	5958.5	6022.1	6186.2	6333.4	6484.1	6721.8	7039.8	7093.3	7344.4
15°	6125.9	6092.4	6102.5	6085.7	6243.1	6320.1	6557.7	6855.7	7160.3	7250.7	7518.5
17.5°	6454.0	6457.3	6413.8	6377.0	6340.1	6504.2	6668.2	6936.0	7207.1	7434.8	7635.6
20°	7079.9	6969.5	6882.4	6674.9	6618.0	6688.3	6895.8	7153.6	7397.9	7585.4	7813.0
22.5°	7562.0	7572.0	7448.2	7106.7	6982.9	7013.0	7190.4	7401.3	7669.1	7803.0	8064.1
25°	8261.6	8191.3	8057.4	7786.3	7508.4	7531.8	7662.4	7853.2	7926.8	8020.6	8305.1
27.5°	8901.0	8921.1	8656.6	8402.2	8057.4	7990.4	8224.8	8258.2	8134.4	8311.8	8408.9
30°	9550.4	9533.6	9359.6	9061.6	8723.5	8736.9	8840.7	8676.7	8506.0	8603.0	8670.0
32.5°	10223.2	10032.4	10025.7	9757.9	9500.2	9376.3	9249.1	9329.4	9065.0	9085.1	9021.5
35°	10762.2	10788.9	10635.0	10444.2	10317.0	10099.4	9751.2	9895.2	9845.0	9821.5	9547.0
37.5°	11153.8	11050.1	11127.0	11063.4	10942.9	10671.8	10310.3	10447.5	10470.9	10584.8	10266.7
40°	11475.2	11431.7	11635.9	11669.3	11585.6	10999.8	10350.4	10758.8	11110.3	11358.0	10979.8
42.5°	11629.2	11722.9	11937.1	12194.9	12007.4	11381.5	10558.0	10996.5	11779.8	12171.5	11655.9
45°	11836.7	11716.2	12034.2	12506.2	12509.6	11702.8	10758.8	11317.9	12302.0	12871.1	12117.9
47.5°	11625.8	11686.1	12014.1	12613.3	12767.3	12040.9	11301.1	11773.1	12877.8	13383.2	12546.4
50°	11153.8	11274.3	11873.5	12496.2	12961.5	12399.1	11923.7	12265.2	13410.0	13795.0	12616.7
52.5°	10661.7	10728.7	11666.0	12586.5	13048.5	12861.0	12757.3	12944.7	14059.4	14260.3	12703.7
55°	9322.7	9640.8	10979.8	12546.4	13473.6	13694.6	13614.2	13888.7	14795.9	14996.7	13179.1
56°	8703.5	8870.8	10568.0	12358.9	13557.3	13999.2	13959.0	14082.9	15187.5	15398.4	13252.7
57.5°	7558.6	7572.0	9011.4	11528.7	13242.7	14089.6	14049.4	14146.5	15110.6	14966.6	12606.6
60°	4730.0	4937.5	6132.6	8867.5	11260.9	13071.9	13299.6	12519.6	12740.5	12435.9	9808.1
62.5°	2450.4	2420.2	3213.6	5185.3	7474.9	9359.6	9570.5	9533.6	9192.2	8747.0	6407.1
65°	1221.8	1228.5	1680.4	2567.5	3829.5	4900.7	5489.9	5553.5	4646.3	4274.7	3039.5
67.5°	887.1	920.6	1208.4	1570.0	1804.3	2018.5	2473.8	2426.9	1837.8	1747.4	1620.2
70°	689.6	719.7	980.8	1198.4	1087.9	1087.9	1185.0	1225.2	1308.9	1345.7	1389.2
72.5°	502.1	525.6	749.8	826.8	713.0	766.6	887.1	980.8	1067.8	1081.2	1131.5
75°	344.8	364.9	492.1	455.3	428.5	528.9	649.4	736.4	800.0	833.5	863.7
77.5°	224.3	231.0	281.2	237.7	274.5	341.4	421.8	495.4	559.0	585.8	592.5
80°	100.4	110.5	120.5	150.6	190.8	244.4	301.3	361.5	401.7	411.7	431.8
82.5°	56.9	56.9	73.6	107.1	140.6	177.4	217.6	261.1	308.0	318.0	314.7
85°	30.1	30.1	43.5	63.6	87.0	103.8	100.4	103.8	110.5	127.2	123.9
87.5°	10.0	10.0	13.4	13.4	16.7	20.1	16.7	23.4	30.1	30.1	30.1
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°	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7	6875.7
2.5°	6865.7	6895.8	6855.7	6942.7	6942.7	6925.9	6842.3	6869.0	6889.1	6889.1	6905.9
5°	6996.2	6986.2	7013.0	6909.2	6845.6	6822.2	6684.9	6618.0	6561.1	6557.7	6507.5
7.5°	7069.9	7043.1	7033.1	6956.1	6674.9	6504.2	6209.6	6038.9	6002.0	5871.5	5921.7
10°	7187.1	7237.3	7187.1	6768.6	6377.0	5985.3	5697.4	5433.0	5329.2	5245.5	5195.3
12.5°	7428.1	7404.6	7113.4	6547.7	5998.7	5533.4	5104.9	4827.1	4723.3	4649.7	4643.0
15°	7632.3	7515.1	7069.9	6199.5	5409.5	4914.1	4562.6	4365.1	4318.3	4325.0	4355.1
17.5°	7702.6	7622.2	6842.3	5838.0	4971.0	4388.6	4224.5	4194.4	4237.9	4288.1	4301.5
20°	7813.0	7685.8	6748.5	5345.9	4428.7	4060.5	4050.5	4157.6	4237.9	4311.6	4321.6
22.5°	8044.0	7722.7	6443.9	4880.6	4057.2	3963.4	4060.5	4150.9	4274.7	4335.0	4281.4
25°	8111.0	7642.3	6015.4	4321.6	3822.8	3903.2	4006.9	4130.8	4217.8	4251.3	4274.7
27.5°	8167.9	7518.5	5436.3	3950.0	3749.2	3899.8	4006.9	4110.7	4157.6	4187.7	4214.5
30°	8328.5	7481.6	4934.2	3702.3	3702.3	3832.9	3970.1	3996.9	4060.5	4097.3	4144.2
32.5°	8408.9	7227.2	4418.7	3545.0	3655.5	3866.3	3876.4	3926.6	3929.9	3960.1	3909.9
35°	8619.8	7046.5	3940.0	3431.2	3675.5	3832.9	3883.1	3853.0	3688.9	3608.6	3625.3
37.5°	8773.8	6956.1	3595.2	3417.8	3678.9	3869.7	3896.5	3668.8	3498.1	3364.2	3397.7
40°	9188.8	6731.8	3334.1	3394.4	3709.0	3909.9	3836.2	3588.5	3280.5	3143.3	3119.9
42.5°	9506.9	6571.1	3170.1	3367.6	3732.4	3966.8	3806.1	3427.8	3113.2	2986.0	3019.4
45°	9875.1	6534.3	3083.0	3374.3	3772.6	3996.9	3769.3	3304.0	2969.2	2919.0	2909.0
47.5°	10005.6	6269.8	2989.3	3317.4	3762.6	3986.9	3645.4	3210.2	2915.7	2922.4	2949.1
50°	9788.0	5998.7	2919.0	3200.2	3695.6	3896.5	3451.3	3086.4	2885.5	2969.2	3016.1
52.5°	9510.2	5720.9	2775.1	3042.9	3558.4	3755.9	3360.9	3079.7	2855.4	2828.6	2838.7
55°	9593.9	5493.2	2574.2	2828.6	3337.4	3494.8	3260.5	3016.1	2781.8	2681.3	2714.8
56°	9322.7	5258.9	2443.7	2694.7	3186.8	3327.4	3210.2	2959.2	2721.5	2654.6	2654.6
57.5°	8556.2	4472.2	2272.9	2480.5	2868.8	3036.2	3113.2	2925.7	2654.6	2537.4	2540.7
60°	6310.0	3180.1	2038.6	2185.9	2376.7	2510.6	2868.8	2832.0	2487.2	2406.8	2376.7
62.5°	3889.8	2323.2	1871.2	1928.2	2025.2	2135.7	2503.9	2564.2	2309.8	2222.7	2202.6
65°	2179.2	1777.5	1744.0	1767.5	1814.3	1871.2	2078.8	2212.7	2038.6	1904.7	1898.0
67.5°	1593.4	1590.1	1616.8	1636.9	1657.0	1657.0	1707.2	1760.8	1737.3	1630.2	1620.2
70°	1416.0	1426.0	1446.1	1449.5	1456.2	1432.7	1392.6	1375.8	1402.6	1335.6	1322.3
72.5°	1168.3	1201.7	1225.2	1228.5	1191.7	1161.6	1108.0	1051.1	1031.0	1017.6	1014.3
75°	897.1	920.6	930.6	927.3	913.9	870.3	806.7	749.8	713.0	672.8	692.9
77.5°	605.9	639.4	656.1	656.1	636.0	569.1	538.9	495.4	458.6	415.1	421.8
80°	425.1	448.6	475.3	472.0	438.5	405.0	361.5	321.4	291.2	257.8	254.4
82.5°	318.0	331.4	344.8	338.1	314.7	281.2	251.1	214.2	180.8	157.3	157.3
85°	113.8	123.9	150.6	157.3	170.7	170.7	143.9	120.5	97.1	80.3	80.3
87.5°	33.5	33.5	36.8	36.8	33.5	36.8	30.1	33.5	36.8	23.4	23.4
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)