

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: P528811

Luminaire Tested: **GALN-SA3D-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10825 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

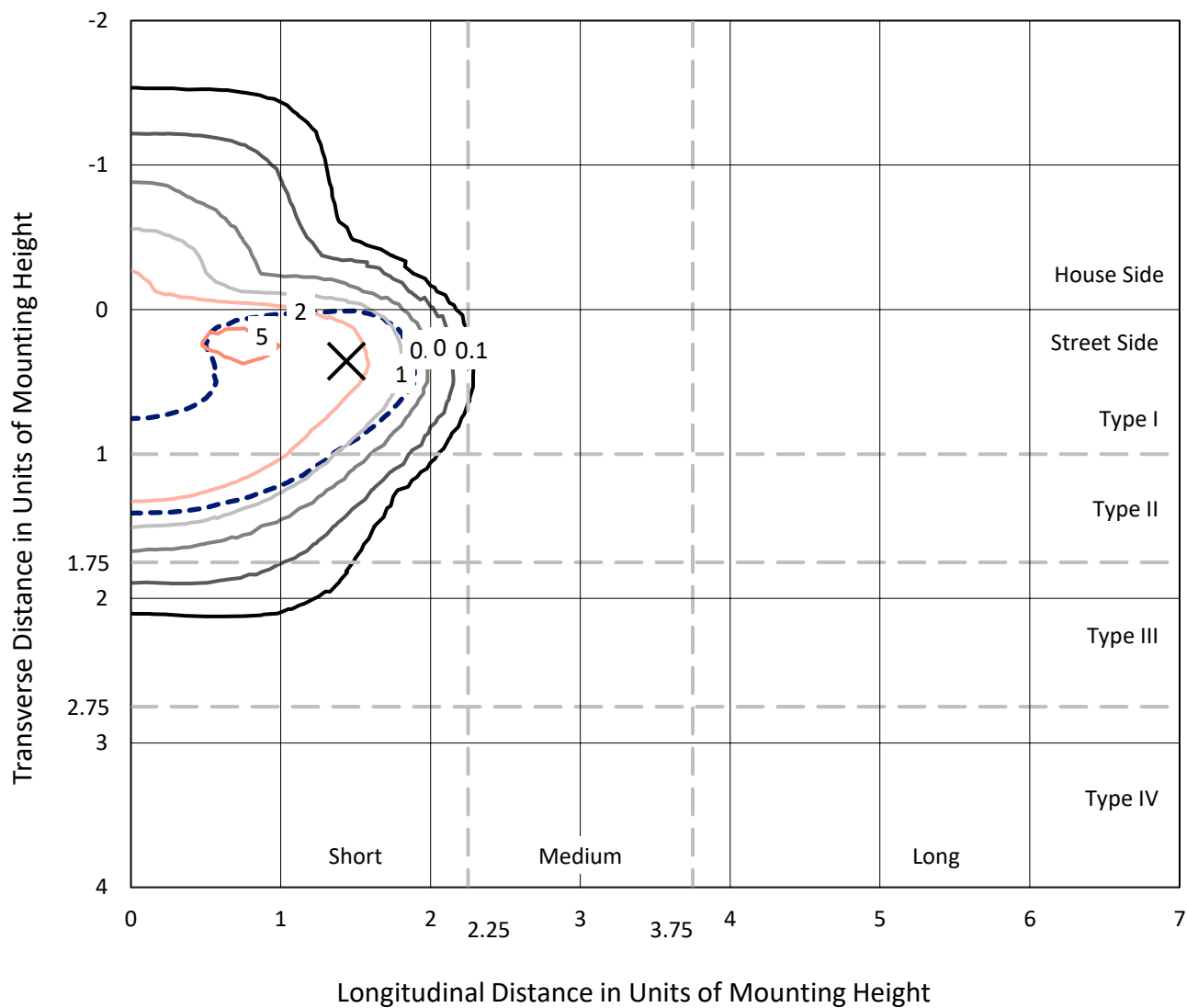
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

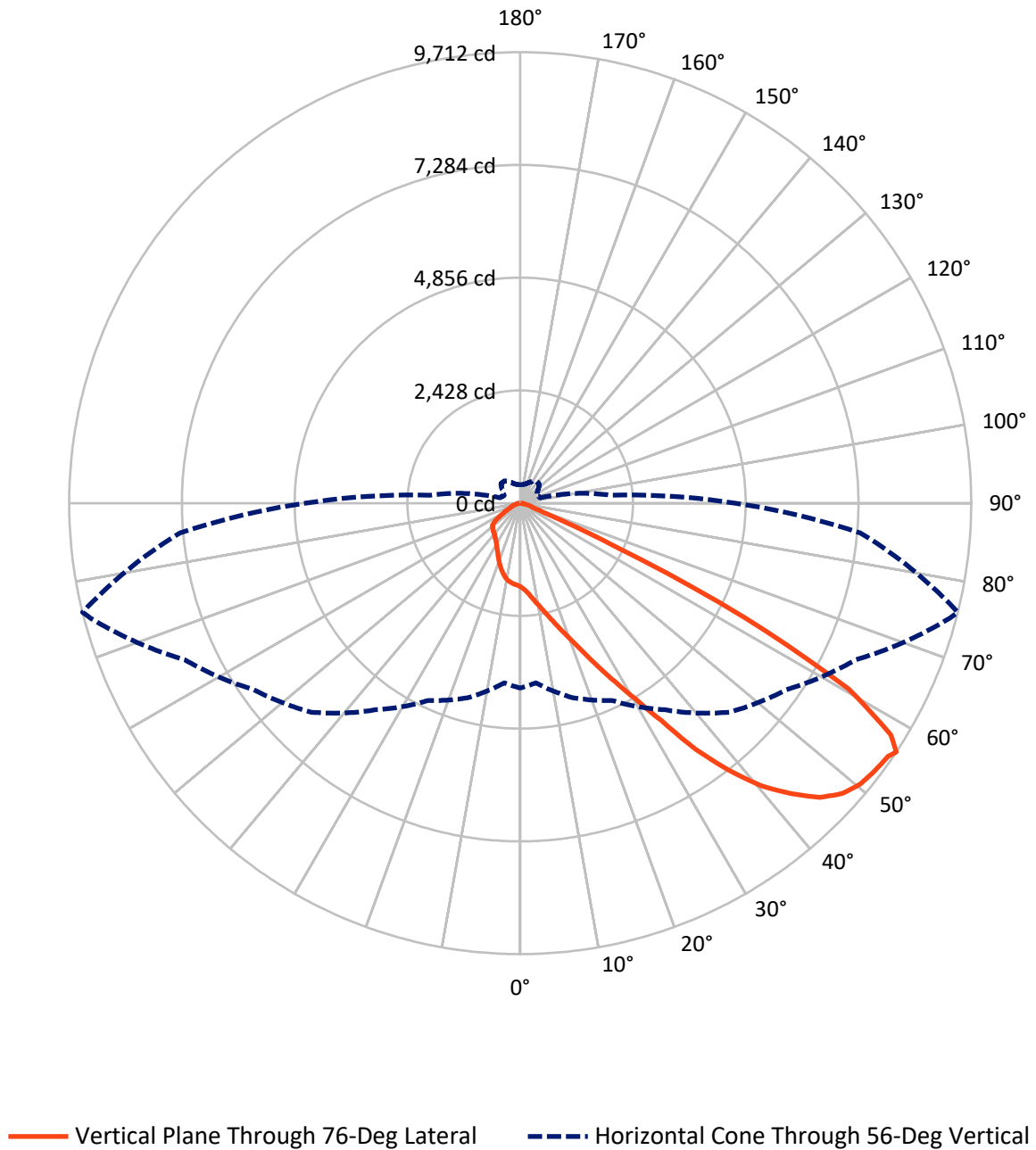
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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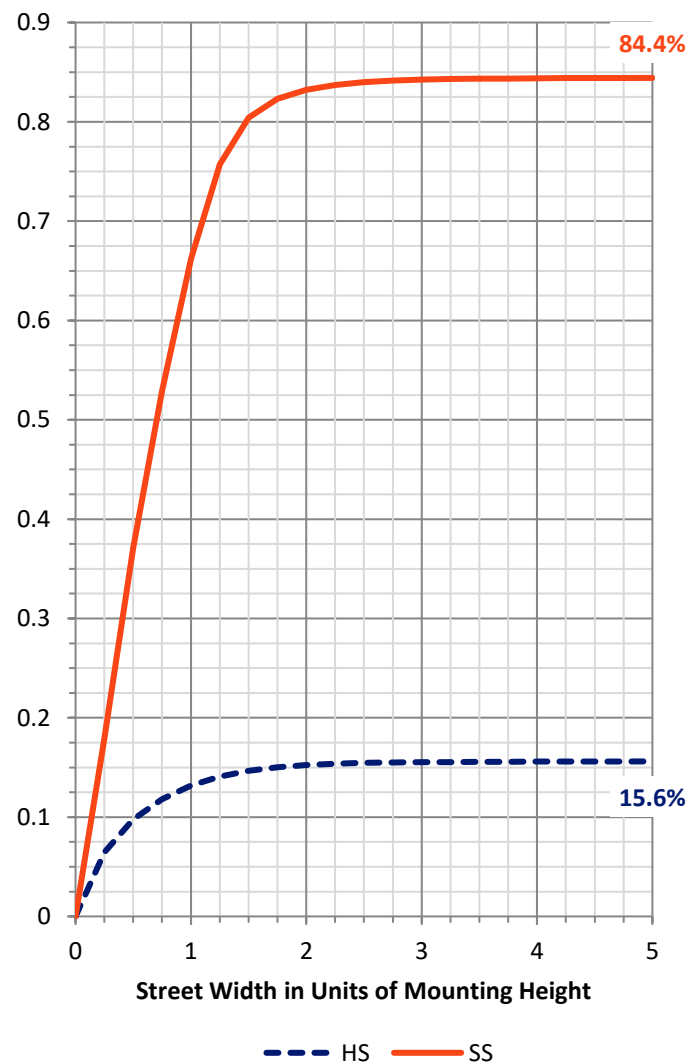
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1700.6	0.0	1700.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	9124.5	0.0	9124.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	10825.0	0.0	10825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	1.7
10°-20°	583.1	5.4
20°-30°	1057.4	9.8
30°-40°	1823.5	16.8
40°-50°	2962.3	27.4
50°-60°	3122.4	28.8
60°-70°	954.0	8.8
70°-80°	122.3	1.1
80°-90°	18.6	0.2
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°	10825.0	100.0
0°-180°	10825.0	100.0

Coefficient of Utilization



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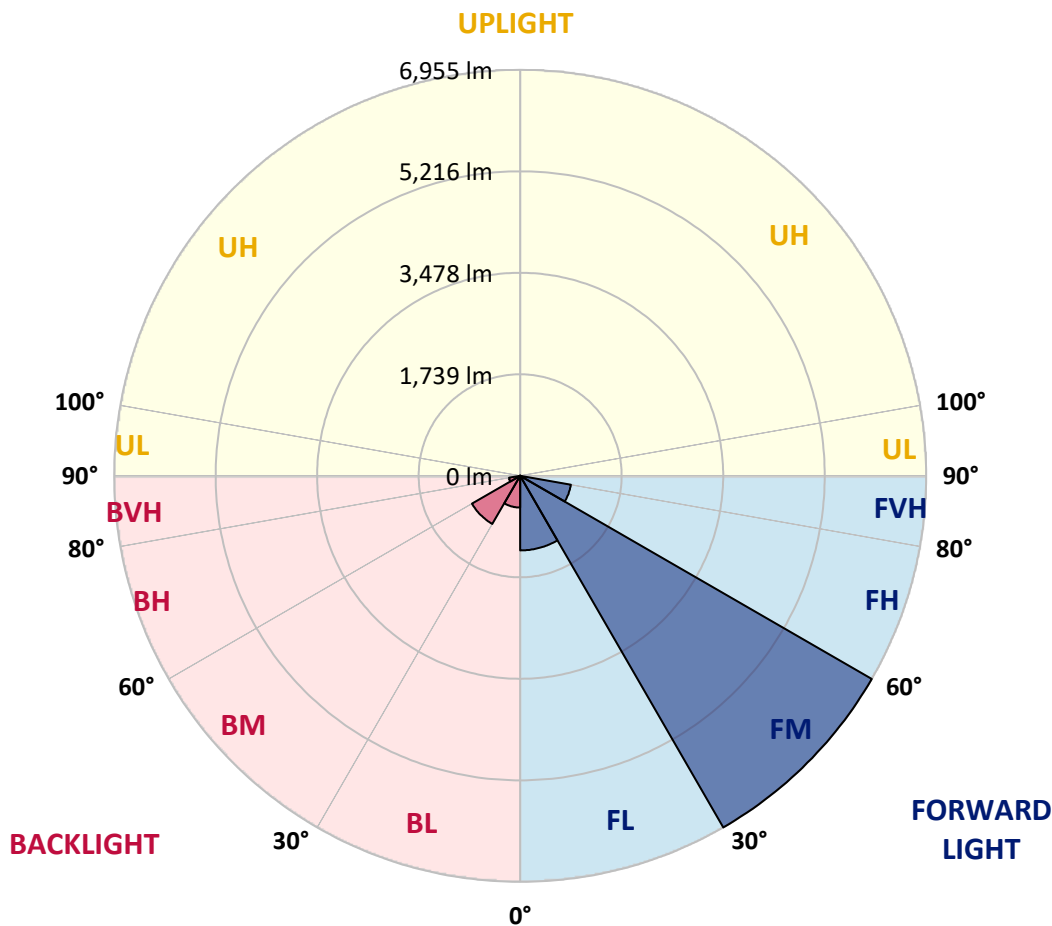
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1278.0	11.8			
FM	(30°-60°)	6955.1	64.2			
FH	(60°-80°)	882.3	8.2			G1/1800
FVH	(80°-90°)	9.1	0.1			G0/10
BL	(0°-30°)	544.0	5.0	B2/1000		
BM	(30°-60°)	953.1	8.8	B1/1000		
BH	(60°-80°)	194.0	1.8	B1/500		G1/500
BVH	(80°-90°)	9.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8
2.5°	2075.2	2027.3	2029.3	2025.3	2019.3	1997.4	1931.5	1921.6	1877.7	1865.7	1825.8
5°	2324.6	2282.7	2306.7	2270.8	2236.8	2216.9	2109.1	2059.2	1989.4	1963.5	1907.6
7.5°	2480.3	2460.3	2452.3	2454.3	2422.4	2372.5	2324.6	2214.9	2121.1	2101.1	1983.4
10°	2556.1	2544.1	2556.1	2550.1	2564.1	2570.1	2486.3	2420.4	2282.7	2248.8	2065.2
12.5°	2574.1	2598.0	2608.0	2633.9	2667.8	2725.7	2719.7	2629.9	2446.3	2424.4	2190.9
15°	2618.0	2637.9	2627.9	2669.8	2733.7	2831.5	2883.3	2869.4	2671.8	2631.9	2336.6
17.5°	2657.9	2621.9	2655.9	2739.7	2803.5	2953.2	3078.9	3136.8	2917.3	2871.4	2470.3
20°	2711.7	2701.8	2695.8	2737.7	2851.4	3051.0	3300.4	3406.1	3192.6	3144.7	2661.9
22.5°	2875.4	2877.4	2873.4	2811.5	2893.3	3118.8	3493.9	3755.3	3521.9	3482.0	2879.3
25°	3090.9	3064.9	3045.0	2995.1	2985.1	3180.7	3689.5	4182.3	3917.0	3889.0	3114.8
27.5°	3318.3	3318.3	3258.5	3212.6	3148.7	3334.3	3869.1	4597.4	4393.8	4355.9	3320.3
30°	3565.8	3579.7	3571.7	3474.0	3434.1	3501.9	4052.6	5128.2	4940.6	4892.7	3659.5
32.5°	3930.9	3901.0	3934.9	3853.1	3735.4	3795.2	4342.0	5603.1	5650.9	5583.1	4104.5
35°	4413.8	4395.8	4373.9	4240.2	4100.5	4148.4	4751.0	6187.7	6542.9	6509.0	4553.5
37.5°	4846.8	4836.8	4818.9	4727.1	4565.5	4623.3	5216.0	6796.3	7412.9	7301.1	5188.0
40°	5301.8	5355.6	5297.8	5216.0	5068.3	5196.0	5762.7	7157.5	8145.2	8009.5	5672.9
42.5°	5918.3	5876.4	5902.4	5752.7	5672.9	5812.6	6311.4	7518.6	8713.9	8552.2	6187.7
45°	6574.8	6576.8	6507.0	6459.1	6251.6	6403.2	6648.6	7718.2	9166.8	9041.1	6576.8
47.5°	6995.8	6993.8	7069.7	7145.5	6932.0	6782.3	6878.1	7907.7	9400.3	9342.4	6718.5
50°	6930.0	6949.9	7047.7	7331.1	7442.8	7241.3	7093.6	7851.9	9506.0	9500.1	6840.2
52.5°	6028.1	6093.9	6257.5	6666.6	7229.3	7478.7	7319.1	7955.6	9557.9	9567.9	7021.8
55°	4589.4	4625.3	4936.6	5433.4	6056.0	6910.0	7229.3	8037.4	9597.8	9615.8	7241.3
56°	3980.8	3885.0	4334.0	4687.2	5431.5	6365.3	7001.8	7973.6	9573.9	9711.6	7351.0
57.5°	3005.1	2941.2	3304.4	3745.3	4461.7	5447.4	6295.5	7672.3	9412.3	9410.3	7193.4
60°	1827.8	1763.9	2043.3	2302.7	2703.8	3354.3	4254.2	6109.9	7957.6	8125.2	5824.5
62.5°	1087.5	1127.4	1402.8	1560.4	1690.1	1757.9	2200.9	3631.6	5309.7	5429.5	3613.7
65°	724.3	738.3	945.8	1205.2	1263.1	1005.7	895.9	1470.6	2302.7	2228.9	1490.6
67.5°	447.0	478.9	634.5	905.9	1003.7	734.3	425.0	548.7	634.5	634.5	431.0
70°	271.4	287.3	423.0	616.6	688.4	472.9	309.3	309.3	305.3	299.3	257.4
72.5°	129.7	139.7	215.5	317.3	323.3	249.4	239.4	261.4	255.4	253.4	213.5
75°	55.9	59.9	75.8	99.8	113.7	105.8	145.7	187.6	193.6	187.6	153.6
77.5°	18.0	20.0	27.9	35.9	37.9	45.9	61.9	77.8	89.8	83.8	75.8
80°	2.0	4.0	8.0	18.0	27.9	35.9	45.9	51.9	57.9	57.9	53.9
82.5°	2.0	2.0	8.0	16.0	25.9	33.9	43.9	49.9	57.9	59.9	55.9
85°	0.0	2.0	6.0	14.0	21.9	21.9	20.0	20.0	14.0	14.0	14.0
87.5°	0.0	0.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8
2.5°	1817.8	1813.8	1759.9	1726.0	1708.1	1672.1	1650.2	1634.2	1622.3	1608.3	1610.3
5°	1841.7	1827.8	1738.0	1676.1	1602.3	1562.4	1528.5	1500.5	1482.6	1478.6	1470.6
7.5°	1909.6	1835.8	1700.1	1588.3	1494.5	1454.6	1424.7	1406.8	1414.7	1396.8	1410.7
10°	1961.5	1851.7	1654.2	1492.6	1398.8	1368.8	1352.9	1366.8	1386.8	1378.8	1368.8
12.5°	2025.3	1867.7	1580.3	1400.8	1313.0	1291.0	1319.0	1344.9	1384.8	1400.8	1380.8
15°	2097.2	1885.6	1486.6	1295.0	1239.1	1257.1	1305.0	1350.9	1390.8	1410.7	1422.7
17.5°	2185.0	1879.7	1394.8	1211.2	1169.3	1221.2	1279.0	1320.9	1380.8	1410.7	1402.8
20°	2266.8	1859.7	1293.0	1127.4	1129.4	1177.3	1225.2	1293.0	1324.9	1364.8	1350.9
22.5°	2344.6	1823.8	1187.3	1069.5	1069.5	1143.4	1167.3	1211.2	1239.1	1259.1	1257.1
25°	2454.3	1755.9	1099.5	1013.7	1037.6	1085.5	1105.4	1119.4	1107.4	1123.4	1125.4
27.5°	2532.2	1686.1	1027.6	963.8	1007.7	1043.6	1037.6	1029.6	1001.7	979.7	993.7
30°	2616.0	1604.3	965.8	929.9	953.8	985.7	961.8	937.8	893.9	858.0	860.0
32.5°	2735.7	1566.4	911.9	889.9	921.9	925.9	899.9	864.0	820.1	786.2	784.2
35°	2959.2	1542.4	866.0	864.0	870.0	872.0	846.0	802.1	784.2	756.3	766.2
37.5°	3182.6	1530.5	834.1	826.1	824.1	826.1	796.2	754.3	788.2	786.2	790.2
40°	3468.0	1584.3	788.2	778.2	780.2	780.2	742.3	730.3	790.2	796.2	798.2
42.5°	3757.3	1652.2	758.2	726.3	734.3	734.3	714.3	700.4	742.3	702.4	696.4
45°	4008.7	1752.0	726.3	674.4	694.4	704.4	698.4	674.4	648.5	580.7	580.7
47.5°	4090.6	1839.7	688.4	624.6	640.5	684.4	666.5	616.6	570.7	514.8	510.8
50°	4234.2	1935.5	658.5	566.7	600.6	654.5	636.5	586.6	534.8	494.9	496.9
52.5°	4381.9	2045.3	602.6	498.8	540.8	630.5	630.5	574.7	494.9	466.9	462.9
55°	4603.4	2041.3	502.8	409.1	482.9	594.6	604.6	514.8	443.0	421.0	421.0
56°	4635.3	1949.5	453.0	383.1	456.9	584.6	586.6	498.8	423.0	399.1	399.1
57.5°	4395.8	1759.9	397.1	351.2	425.0	566.7	568.7	484.9	407.1	373.1	369.1
60°	3382.2	1191.2	331.2	313.3	385.1	510.8	520.8	441.0	357.2	331.2	329.2
62.5°	1909.6	660.5	291.3	283.3	331.2	435.0	464.9	385.1	303.3	289.3	293.3
65°	872.0	363.2	245.4	229.5	267.4	335.2	375.1	317.3	249.4	233.5	233.5
67.5°	319.3	247.4	209.5	181.6	187.6	217.5	243.4	205.5	165.6	141.7	147.7
70°	227.5	207.5	183.6	157.6	145.7	141.7	139.7	115.7	81.8	63.9	67.8
72.5°	183.6	171.6	153.6	133.7	113.7	95.8	81.8	59.9	37.9	25.9	23.9
75°	131.7	125.7	111.7	95.8	79.8	67.8	55.9	37.9	20.0	10.0	10.0
77.5°	67.8	67.8	65.8	59.9	49.9	39.9	31.9	21.9	12.0	4.0	4.0
80°	51.9	55.9	57.9	51.9	45.9	35.9	25.9	16.0	8.0	2.0	2.0
82.5°	49.9	57.9	61.9	53.9	45.9	33.9	25.9	16.0	8.0	2.0	2.0
85°	12.0	12.0	18.0	20.0	25.9	27.9	21.9	14.0	6.0	2.0	2.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0	0.0
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)