

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: P532784

Luminaire Tested: **GALN-SA8A-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24825 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 244
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



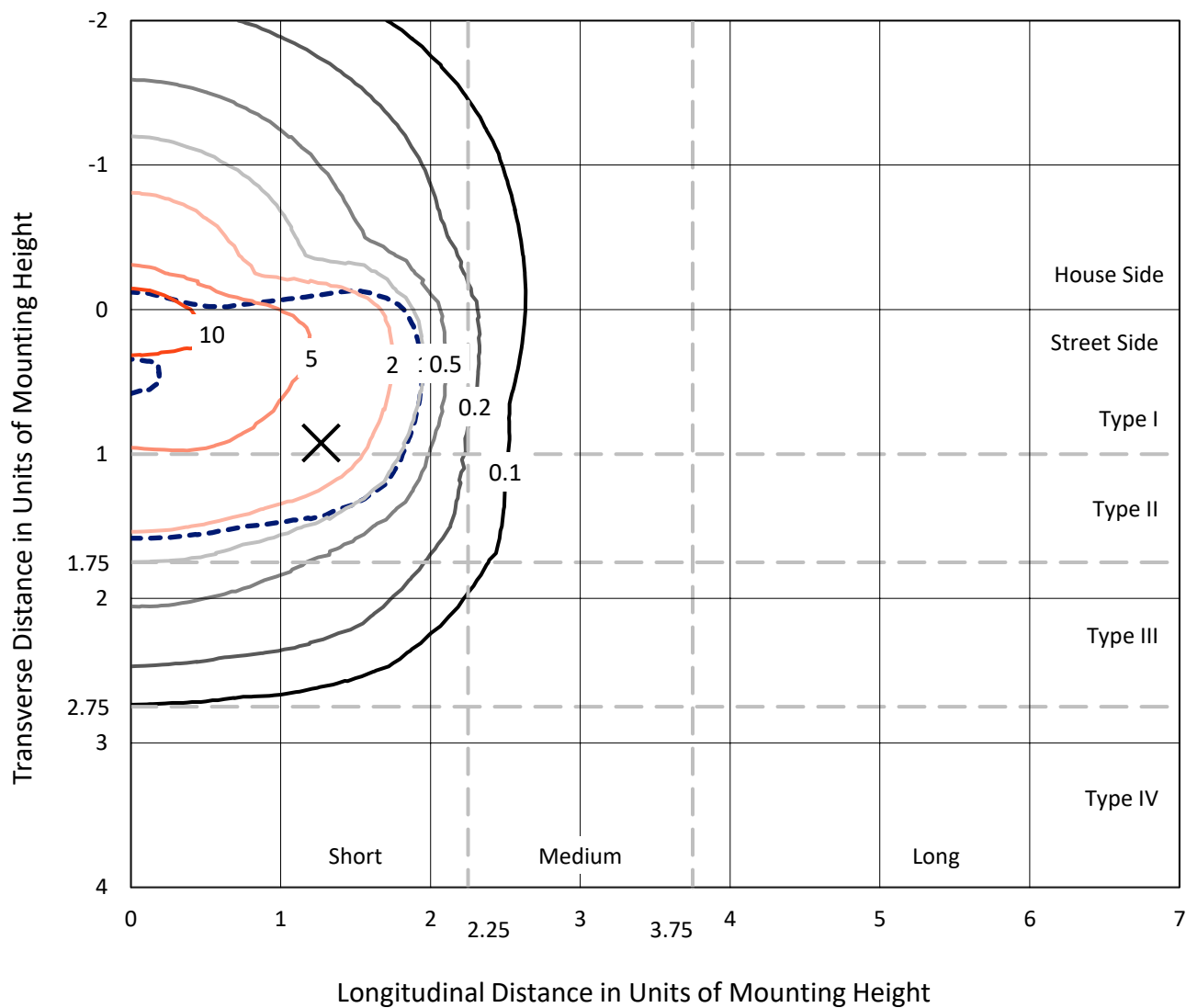
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

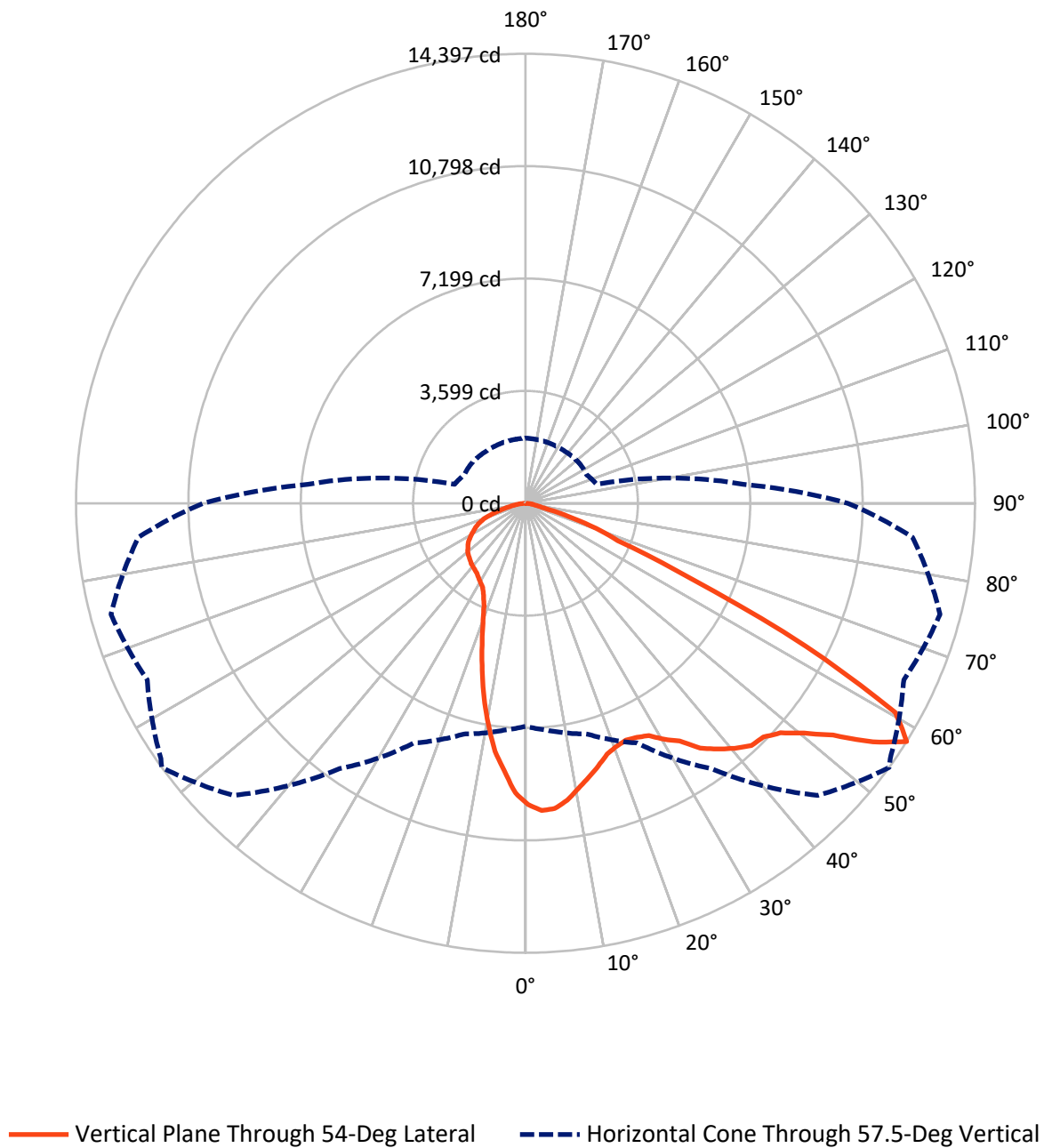


Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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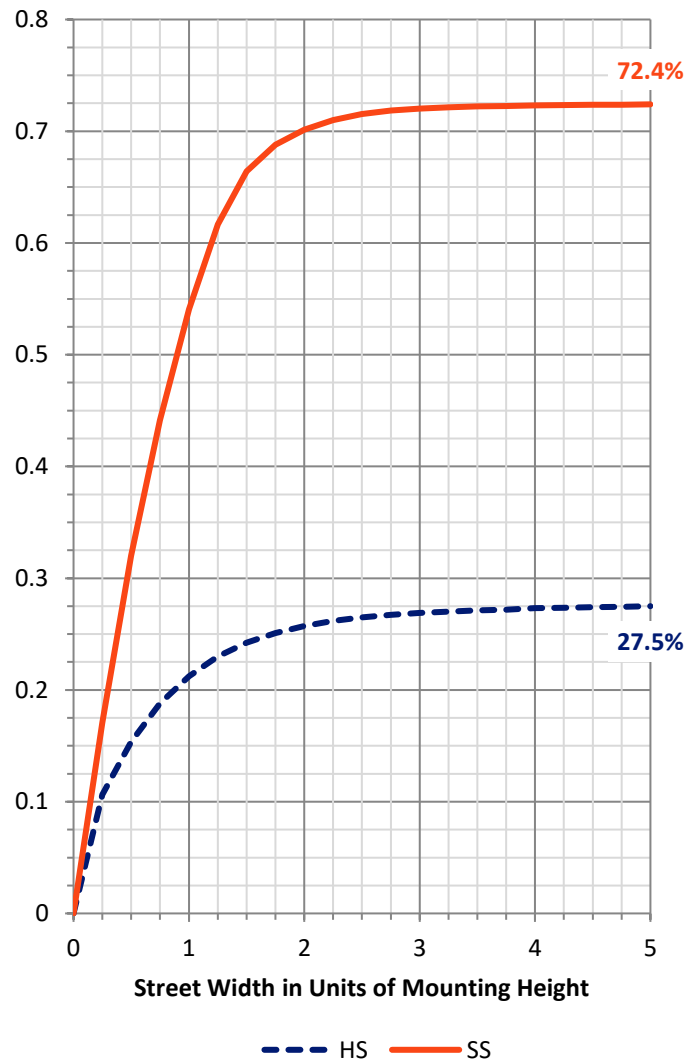
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6868.0	0.0	6868.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	17957.0	0.0	17957.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	24825.0	0.0	24825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.2	3.4
10°-20°	1926.7	7.8
20°-30°	2707.1	10.9
30°-40°	3784.5	15.2
40°-50°	5123.5	20.6
50°-60°	6240.7	25.1
60°-70°	3250.4	13.1
70°-80°	832.9	3.4
80°-90°	127.0	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°	24825.0	100.0
0°-180°	24825.0	100.0

Coefficient of Utilization



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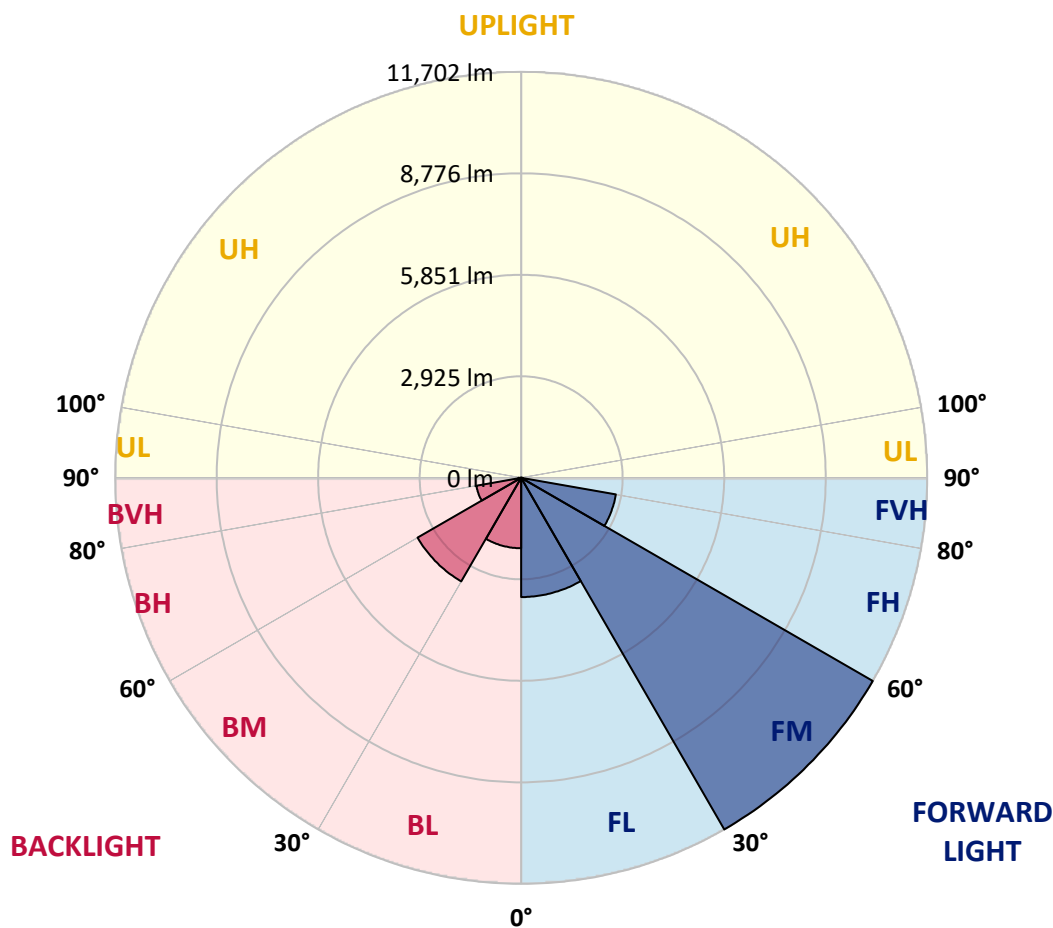
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3436.1	13.8			
FM	(30°-60°)	11701.7	47.1			
FH	(60°-80°)	2771.2	11.2			G2/5000
FVH	(80°-90°)	48.0	0.2			G1/100
BL	(0°-30°)	2029.8	8.2	B3/2500		
BM	(30°-60°)	3447.0	13.9	B3/5000		
BH	(60°-80°)	1312.1	5.3	B3/2500		G3/2500
BVH	(80°-90°)	79.0	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°	54°	55°	65°	75°	85°
0°	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2
2.5°	9923.6	9885.3	9891.7	9942.8	9878.9	9853.4	9853.4	9729.0	9738.5	9652.4	9630.0
5°	9693.9	9604.5	9665.1	9741.7	9754.5	9780.0	9821.5	9789.6	9700.2	9607.7	9457.7
7.5°	9094.0	9173.8	9196.1	9250.3	9365.2	9470.5	9601.3	9512.0	9508.8	9416.3	9326.9
10°	8567.5	8519.6	8640.9	8720.6	8912.1	9087.6	9288.6	9279.1	9326.9	9221.6	9068.5
12.5°	8044.2	8005.9	8063.3	8245.2	8513.2	8768.5	9007.8	8918.5	9173.8	9154.6	8825.9
15°	7489.0	7517.7	7600.7	7769.8	8120.8	8427.1	8730.2	8733.4	8960.0	9036.5	8596.2
17.5°	7099.7	7067.8	7173.1	7425.2	7737.9	8104.8	8449.4	8519.6	8867.4	8912.1	8526.0
20°	6809.3	6854.0	6991.2	7118.8	7479.4	7922.9	8312.2	8337.7	8848.3	8969.5	8414.3
22.5°	6739.1	6713.6	6758.3	6965.7	7262.4	7744.2	8238.8	8334.6	8845.1	8950.4	8203.7
25°	6665.7	6748.7	6745.5	6952.9	7169.9	7600.7	8299.5	8404.8	9014.2	9049.3	8232.4
27.5°	6831.7	6822.1	6911.4	6927.4	7195.4	7638.9	8427.1	8506.9	9295.0	9266.3	8254.8
30°	6997.6	6949.7	7004.0	7192.2	7316.7	7859.1	8778.1	8771.7	9658.8	9639.6	8325.0
32.5°	7201.8	7179.5	7214.6	7380.5	7591.1	8152.7	9074.8	9263.1	10028.9	10150.2	8567.5
35°	7240.1	7332.6	7415.6	7638.9	7938.9	8628.1	9633.2	9789.6	10456.5	10836.2	9030.2
37.5°	7482.6	7517.7	7712.3	8108.0	8382.4	9263.1	9987.4	10086.3	10845.8	11276.5	9518.4
40°	7741.1	7782.5	8076.1	8490.9	8867.4	9677.9	10319.3	10351.2	10970.2	11614.8	9837.5
42.5°	8092.0	8130.3	8420.7	8940.8	9445.0	10032.1	10612.8	10647.9	10960.6	12004.1	10344.8
45°	8455.8	8548.3	8889.8	9480.1	9933.2	10446.9	10679.8	10823.4	11050.0	12351.9	10756.4
47.5°	8966.3	9052.5	9333.3	9910.8	10440.5	10810.7	10989.4	11129.8	11263.8	12655.0	11021.3
50°	9508.8	9524.7	9866.2	10389.5	10778.8	11222.3	11566.9	11614.8	11544.6	13006.0	11471.2
52.5°	9907.7	9958.7	10223.5	10734.1	11314.8	11860.5	12332.7	12383.8	12246.6	13136.8	11624.3
55°	9247.1	9218.4	9649.2	10328.8	11675.4	12811.3	13497.4	13535.7	12757.1	13542.1	12125.3
57.5°	7147.6	7284.8	7651.7	8471.8	10373.5	13232.5	14397.2	14260.0	13369.7	13746.3	12444.4
60°	5194.7	5162.8	5408.5	5957.4	7817.6	11404.2	13612.3	13752.7	12868.8	12390.2	10261.8
62.5°	4231.1	4186.4	4205.6	4224.7	5044.8	7568.7	10076.8	10073.6	9910.8	8905.7	6921.0
65°	3382.3	3487.6	3497.2	3640.8	3746.1	4521.5	5839.3	6152.0	5357.5	4393.8	3187.7
67.5°	2549.5	2511.2	2638.9	3149.4	3347.2	3264.3	3187.7	3222.8	2291.0	1652.9	1557.1
70°	1502.9	1486.9	1640.1	2195.3	2756.9	2594.2	2402.7	2405.9	1573.1	1155.1	1285.9
72.5°	823.2	820.1	852.0	1113.6	1566.7	1627.3	1442.3	1486.9	938.1	934.9	1005.1
75°	459.5	449.9	440.3	491.4	564.8	596.7	609.5	615.8	644.6	721.1	749.9
77.5°	169.1	162.7	162.7	188.3	239.3	299.9	379.7	386.1	456.3	523.3	552.0
80°	57.4	63.8	86.2	118.1	159.5	213.8	258.5	264.8	322.3	367.0	376.5
82.5°	35.1	38.3	57.4	83.0	114.9	150.0	191.5	194.6	239.3	268.0	280.8
85°	16.0	19.1	31.9	51.1	73.4	98.9	102.1	102.1	98.9	102.1	95.7
87.5°	0.0	0.0	6.4	6.4	6.4	9.6	12.8	9.6	16.0	19.1	19.1
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°	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2	9649.2
2.5°	9563.0	9527.9	9419.5	9323.7	9295.0	9167.4	8979.1	9001.4	8864.2	8928.1	8861.0
5°	9432.2	9314.2	9036.5	8918.5	8609.0	8468.6	8372.8	8133.5	8021.8	7999.5	7903.8
7.5°	9097.2	9023.8	8676.0	8356.9	8028.2	7747.4	7386.9	7141.2	6965.7	6917.8	6777.4
10°	8832.3	8669.6	8187.8	7702.8	7233.7	6745.5	6276.4	5909.5	5730.8	5523.4	5453.2
12.5°	8570.7	8325.0	7674.0	7051.8	6445.6	5829.7	5261.7	4815.0	4425.7	4333.2	4301.3
15°	8407.9	7980.4	7214.6	6464.7	5603.2	4799.1	4231.1	3937.5	3698.2	3599.3	3669.5
17.5°	8194.2	7696.4	6774.2	5775.5	4827.8	4087.5	3612.1	3430.2	3344.0	3353.6	3324.9
20°	7926.1	7428.3	6196.7	5150.1	4135.4	3545.1	3273.8	3206.8	3219.6	3241.9	3232.4
22.5°	7734.7	7102.9	5778.7	4511.9	3573.8	3245.1	3133.4	3085.6	3127.1	3146.2	3130.2
25°	7587.9	6825.3	5271.3	3947.1	3248.3	3076.0	3024.9	3021.8	3085.6	3111.1	3095.1
27.5°	7453.9	6566.8	4767.2	3516.3	3031.3	2945.2	2929.2	2967.5	3009.0	3034.5	3056.9
30°	7374.1	6369.0	4294.9	3155.8	2922.8	2881.4	2852.6	2887.7	2910.1	2935.6	2922.8
32.5°	7450.7	6228.6	3838.6	2951.6	2833.5	2792.0	2830.3	2808.0	2846.3	2868.6	2833.5
35°	7690.0	6104.1	3513.1	2843.1	2731.4	2747.3	2753.7	2744.1	2760.1	2741.0	2782.4
37.5°	7926.1	6059.5	3213.2	2750.5	2683.5	2683.5	2677.1	2658.0	2689.9	2683.5	2702.7
40°	8226.1	6088.2	2957.9	2651.6	2638.9	2632.5	2606.9	2603.8	2591.0	2594.2	2600.6
42.5°	8487.7	6152.0	2811.2	2587.8	2597.4	2610.1	2562.3	2524.0	2539.9	2508.0	2508.0
45°	8765.3	6209.4	2680.3	2543.1	2533.6	2530.4	2492.1	2469.7	2457.0	2460.2	2488.9
47.5°	9202.5	6292.4	2581.4	2482.5	2488.9	2441.0	2431.4	2402.7	2415.5	2434.6	2437.8
50°	9512.0	6467.9	2504.8	2412.3	2434.6	2402.7	2345.3	2332.5	2332.5	2364.4	2358.1
52.5°	9729.0	6713.6	2431.4	2335.7	2345.3	2319.8	2300.6	2271.9	2252.8	2297.4	2319.8
55°	10392.7	7122.0	2412.3	2271.9	2268.7	2243.2	2208.1	2179.4	2169.8	2176.2	2220.8
57.5°	10328.8	6994.4	2351.7	2160.2	2153.8	2118.7	2083.6	2074.1	2070.9	2077.3	2090.0
60°	8385.6	5166.0	2099.6	2032.6	2023.0	2016.6	1981.5	1943.2	1924.1	1943.2	1927.3
62.5°	5548.9	3458.9	1850.7	1879.4	1885.8	1869.9	1812.4	1774.1	1780.5	1802.8	1767.7
65°	2725.0	2032.6	1678.4	1755.0	1761.4	1716.7	1662.4	1617.8	1595.4	1614.6	1598.6
67.5°	1557.1	1554.0	1538.0	1617.8	1614.6	1569.9	1483.8	1445.5	1407.2	1413.6	1404.0
70°	1321.0	1346.5	1378.5	1426.3	1423.1	1372.1	1270.0	1241.2	1187.0	1180.6	1164.7
72.5°	1040.2	1084.9	1155.1	1190.2	1161.5	1097.7	1030.7	982.8	934.9	906.2	915.8
75°	772.2	836.0	874.3	896.6	852.0	816.9	762.6	705.2	647.7	622.2	612.6
77.5°	561.6	580.7	615.8	631.8	603.1	568.0	536.1	478.6	424.4	389.3	379.7
80°	392.5	405.2	430.8	430.8	430.8	414.8	373.3	315.9	280.8	248.9	242.5
82.5°	274.4	287.2	312.7	299.9	296.8	277.6	252.1	207.4	169.1	146.8	140.4
85°	95.7	105.3	127.6	153.2	162.7	159.5	143.6	114.9	89.3	73.4	67.0
87.5°	22.3	22.3	25.5	22.3	22.3	25.5	22.3	22.3	22.3	16.0	12.8
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)