

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: P299198

Luminaire Tested: **GLNA-AF-08-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-08-LED-E1-SL2-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Narrow OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36393.1 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

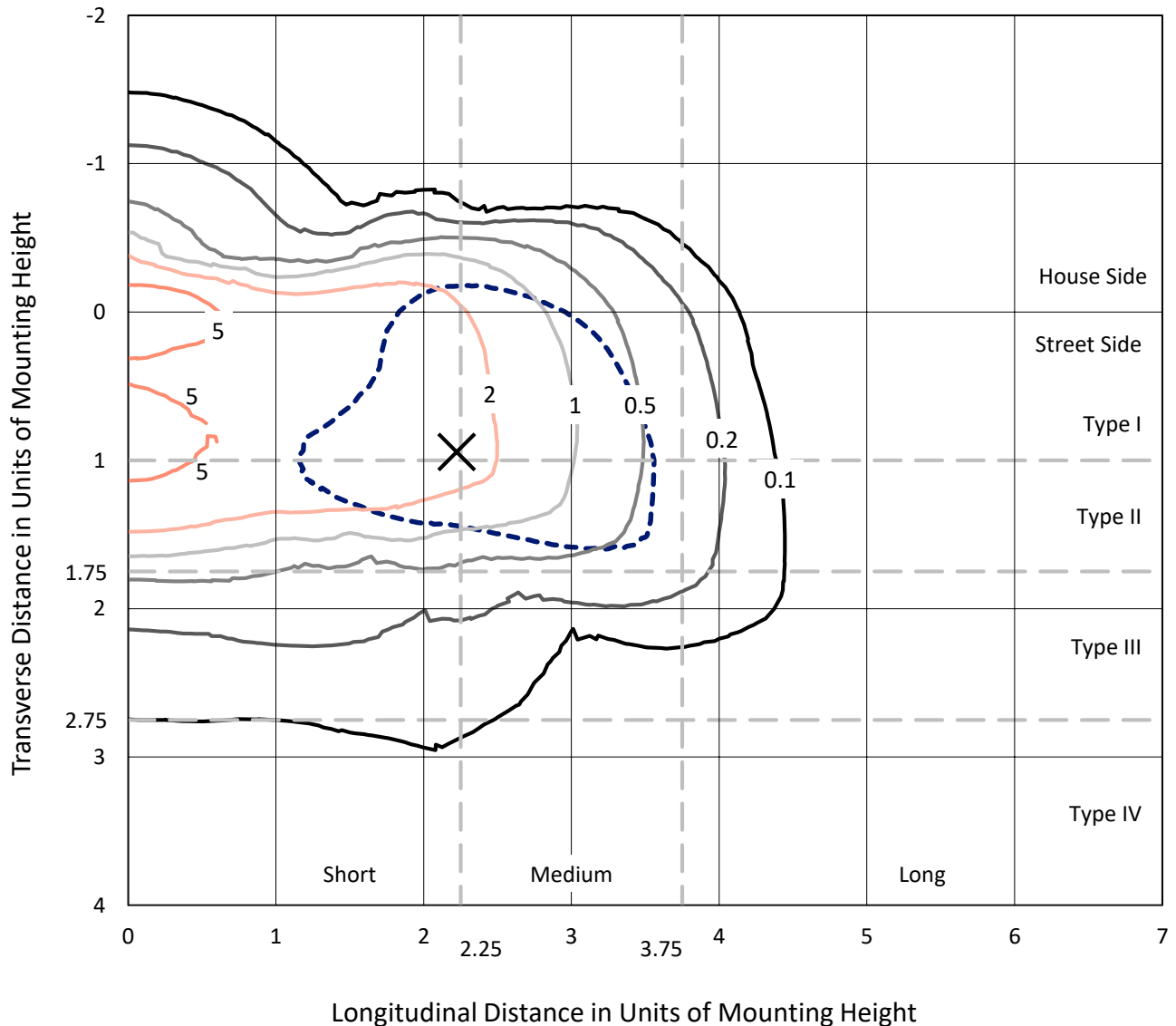
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

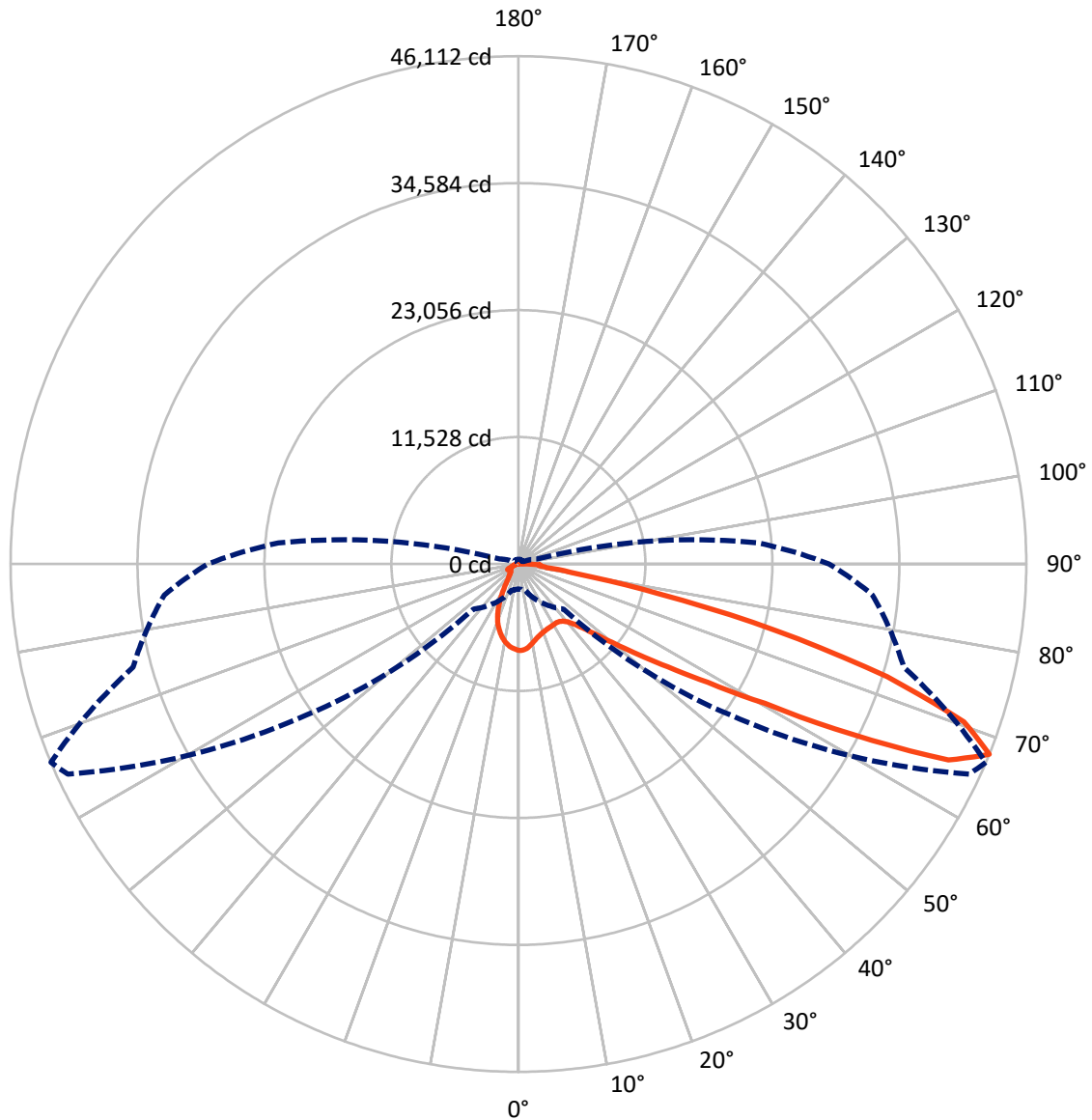
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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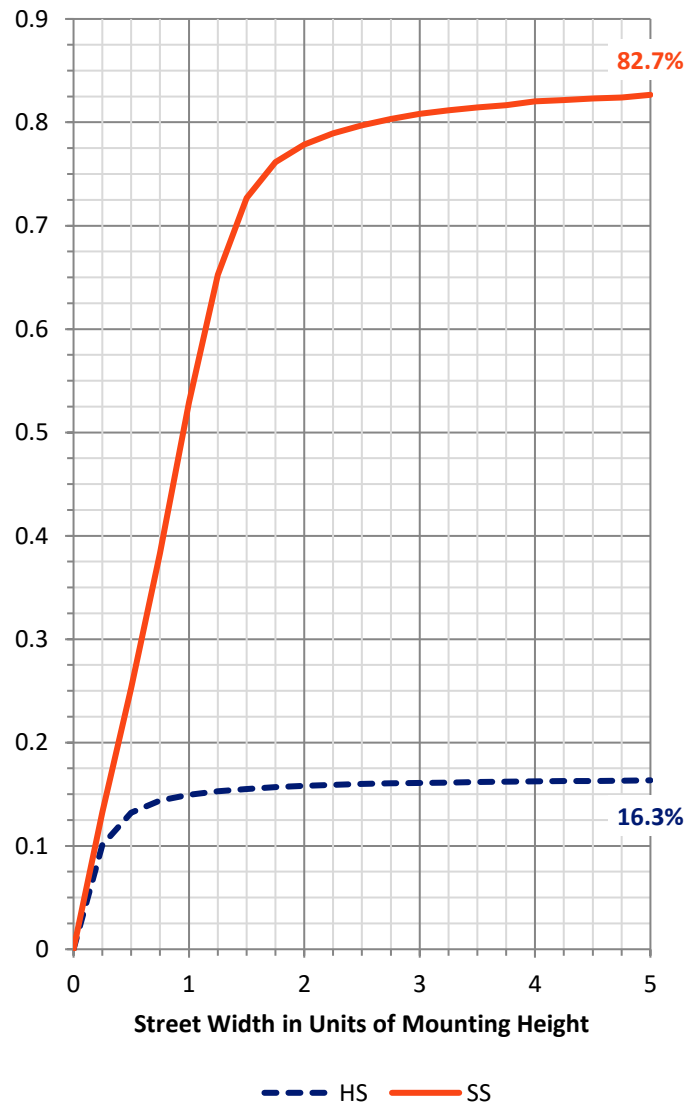
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6030.0	0.0	6030.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	30363.2	0.0	30363.2
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	36393.1	0.0	36393.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	669.7	1.8
10°-20°	1549.6	4.3
20°-30°	2100.5	5.8
30°-40°	2986.1	8.2
40°-50°	4995.9	13.7
50°-60°	7903.5	21.7
60°-70°	10068.2	27.7
70°-80°	5273.7	14.5
80°-90°	845.8	2.3
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°	36393.1	100.0
0°-180°	36393.1	100.0

**Coefficient of Utilization**



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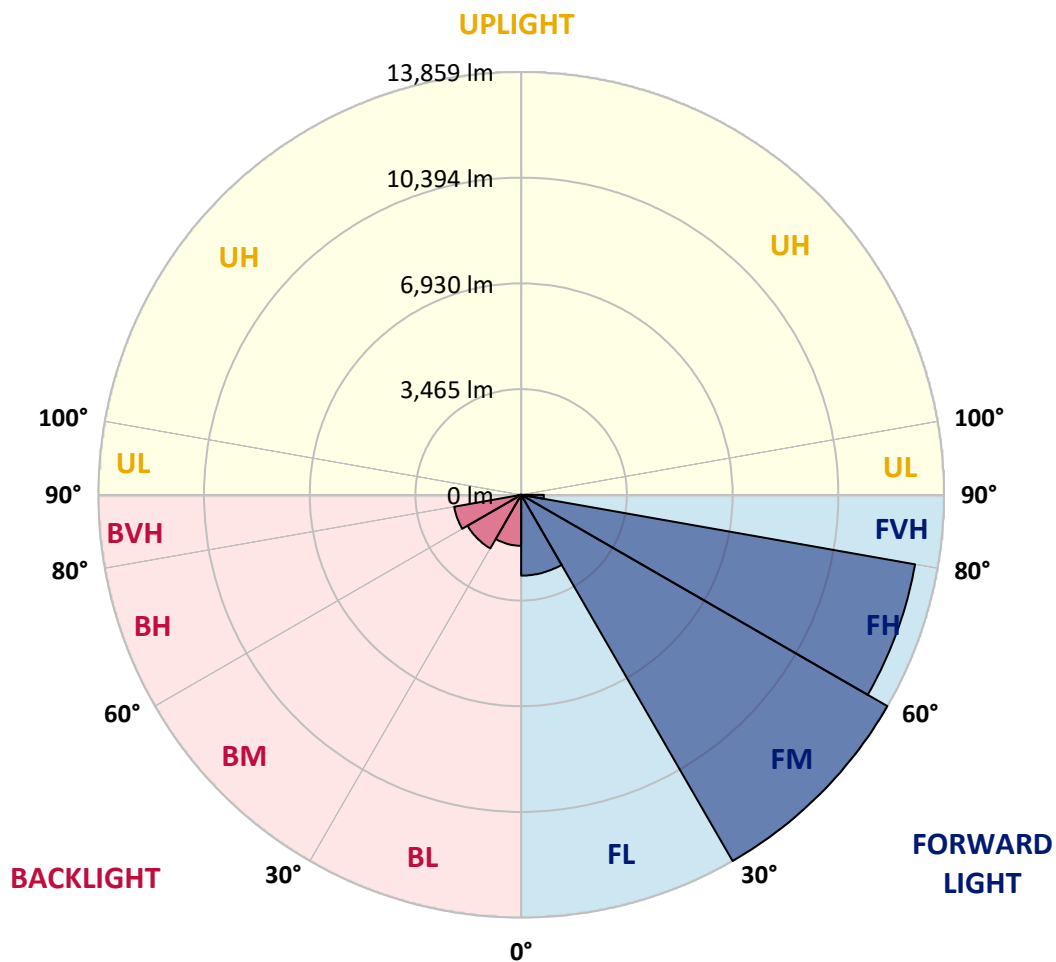
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2648.5	7.3			
FM (30°-60°)	13859.3	38.1			
FH (60°-80°)	13111.7	36.0			G5
FVH (80°-90°)	743.7	2.0			G4/750
BL (0°-30°)	1671.3	4.6	B3/2500		
BM (30°-60°)	2026.2	5.6	B2/2500		
BH (60°-80°)	2230.3	6.1	B3/2500		G3/2500
BVH (80°-90°)	102.1	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9
2.5°	7526.9	7539.4	7578.9	7604.0	7717.1	7765.6	7799.7	7833.8	7839.1	7855.3	7839.1
5°	6737.2	6764.1	6837.7	6920.3	7139.2	7311.5	7492.8	7681.2	7715.3	7837.3	7871.4
7.5°	6125.2	6118.0	6179.1	6277.8	6502.1	6740.8	7058.5	7433.5	7507.1	7781.7	7914.5
10°	5678.4	5673.0	5737.6	5839.9	6053.4	6279.6	6638.5	7151.8	7255.9	7693.8	7955.8
12.5°	5348.1	5349.9	5414.5	5527.6	5744.8	5972.7	6337.0	6879.0	7011.8	7591.5	7998.9
15°	5129.2	5143.5	5195.6	5315.8	5527.6	5755.5	6112.7	6674.4	6823.4	7510.7	8047.3
17.5°	5055.6	5078.9	5096.9	5184.8	5366.1	5594.0	5944.0	6523.6	6681.6	7455.1	8090.4
20°	5123.8	5150.7	5116.6	5147.1	5262.0	5463.0	5811.2	6405.2	6566.7	7392.3	8095.8
22.5°	5416.3	5441.5	5341.0	5253.0	5245.8	5367.9	5701.7	6311.9	6478.8	7345.6	8097.6
25°	5931.4	5947.6	5778.9	5574.3	5375.1	5333.8	5624.5	6247.3	6424.9	7304.3	8063.5
27.5°	6563.1	6575.7	6381.9	6080.4	5680.1	5414.5	5597.6	6209.6	6394.4	7268.4	8006.0
30°	7331.2	7390.5	7130.2	6749.8	6166.5	5653.2	5651.4	6189.8	6360.3	7207.4	7893.0
32.5°	8117.3	8142.4	7963.0	7577.1	6821.6	6073.2	5802.2	6204.2	6351.4	7133.8	7749.4
35°	8914.1	8946.5	8829.8	8519.3	7717.1	6688.8	6096.5	6288.5	6407.0	7108.7	7648.9
37.5°	9946.1	9989.2	9827.6	9468.7	8806.5	7523.3	6586.5	6500.3	6577.5	7180.5	7618.4
40°	11577.4	11557.7	11085.7	10550.9	9998.1	8591.1	7286.4	6859.2	6904.1	7412.0	7711.7
42.5°	13476.2	13427.8	12614.8	11774.9	11308.2	9883.3	8212.4	7482.0	7473.0	7867.9	8040.1
45°	14990.9	14951.4	14219.2	13183.7	12810.4	11354.9	9409.5	8409.8	8343.4	8591.1	8646.7
47.5°	15811.1	15812.9	15391.1	14545.8	14536.9	13225.0	10947.5	9752.3	9637.4	9754.1	9694.8
50°	15523.9	15561.6	15516.8	15247.6	16112.6	15676.5	12955.8	11624.1	11392.6	11507.5	11279.5
52.5°	14134.9	14183.3	14448.9	14861.7	16774.8	18639.5	15906.2	13950.0	13680.8	13639.5	13386.5
55°	11672.6	11731.8	12273.8	13395.5	16223.9	20629.8	20561.6	16914.8	16485.9	16096.4	15988.8
57.5°	8045.5	8144.2	9016.4	10681.9	14441.7	21231.0	26105.3	21141.3	20269.1	18908.7	18933.8
60°	4535.1	4650.0	5678.4	7191.3	10845.2	20577.7	30322.8	27542.9	25701.5	22201.9	22388.6
62.5°	2884.0	3007.9	3788.6	4996.4	6507.5	17060.2	32051.1	36442.7	34104.2	26261.5	26444.5
65°	2334.9	2388.7	2756.6	4124.2	4725.4	10278.1	30739.2	43773.9	42901.7	31414.0	30559.7
67.5°	2279.2	2297.2	2487.4	3461.9	4531.6	5777.1	24518.8	45145.0	46112.4	36225.5	32273.6
70°	2252.3	2315.1	2803.3	3304.0	4339.5	4872.5	14734.3	41387.0	42914.3	37483.6	29992.6
72.5°	1093.0	1089.4	1410.6	2988.1	4888.7	5053.8	7569.9	33486.8	35019.5	32474.6	24646.3
75°	881.2	805.8	769.9	1094.8	4700.3	5218.9	4824.1	23041.8	24150.9	21773.0	15150.6
77.5°	836.3	746.6	683.8	685.6	1986.7	5534.8	4086.5	12753.0	13076.0	9834.8	4151.1
80°	692.7	610.2	565.3	637.1	961.9	5271.0	4418.5	5771.7	5296.1	2415.6	1381.9
82.5°	481.0	437.9	425.3	534.8	769.9	3756.3	5138.2	3101.2	2600.5	1209.6	852.5
85°	306.9	262.0	290.7	389.4	599.4	1733.7	5292.5	2417.4	1922.1	768.1	481.0
87.5°	141.8	114.9	143.6	215.4	391.2	597.6	5035.9	2715.3	1979.5	405.6	303.3
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°	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9	7849.9
2.5°	7853.5	7819.4	7792.5	7742.2	7686.6	7632.8	7584.3	7523.3	7505.3	7489.2	7514.3
5°	7878.6	7844.5	7745.8	7591.5	7421.0	7261.3	7101.5	6965.1	6880.8	6834.1	6861.0
7.5°	7916.3	7867.9	7663.3	7379.7	7072.8	6792.8	6503.9	6272.4	6101.9	6021.1	6044.5
10°	7950.4	7857.1	7523.3	7097.9	6649.3	6232.9	5777.1	5400.2	5120.2	4973.0	5008.9
12.5°	7964.8	7815.8	7327.7	6746.2	6130.6	5520.4	4849.2	4285.7	3883.7	3736.5	3706.0
15°	7979.1	7769.1	7112.3	6346.0	5504.3	4641.0	3700.6	3025.8	2692.0	2618.4	2602.3
17.5°	7982.7	7688.4	6868.2	5911.7	4770.2	3594.7	2530.5	2101.6	2103.4	2221.8	2236.2
20°	7945.0	7568.1	6572.1	5371.5	3890.9	2485.6	1737.2	1663.7	1934.7	2230.8	2266.7
22.5°	7858.9	7408.4	6236.5	4741.5	2884.0	1636.7	1344.2	1425.0	1774.9	2137.5	2178.7
25°	7749.4	7214.6	5839.9	4011.1	1909.5	1170.1	1127.1	1225.8	1462.7	1704.9	1728.3
27.5°	7600.4	6984.9	5394.8	3174.8	1240.1	963.7	992.5	1058.9	1155.8	1263.5	1274.2
30°	7408.4	6710.3	4919.2	2315.1	936.8	866.8	908.1	944.0	985.3	1046.3	1051.7
32.5°	7187.7	6446.5	4431.1	1599.1	830.9	816.6	848.9	866.8	899.1	936.8	940.4
35°	7002.8	6195.2	3925.0	1130.6	786.1	778.9	800.4	807.6	838.1	879.4	883.0
37.5°	6896.9	5990.6	3402.7	911.7	755.6	744.8	757.4	757.4	800.4	861.4	870.4
40°	6904.1	5877.6	2880.5	823.8	730.4	716.1	717.9	717.9	773.5	839.9	845.3
42.5°	7099.7	5906.3	2417.4	789.7	710.7	694.5	685.6	690.9	737.6	780.7	784.3
45°	7559.2	6109.1	1983.1	768.1	690.9	685.6	665.8	664.0	682.0	701.7	701.7
47.5°	8312.9	6509.3	1688.8	753.8	674.8	673.0	649.7	626.3	624.5	631.7	631.7
50°	9538.7	7198.4	1491.4	737.6	664.0	649.7	622.8	586.9	574.3	579.7	579.7
52.5°	11376.4	8427.8	1416.0	716.1	640.7	617.4	586.9	551.0	540.2	542.0	542.0
55°	13786.7	10315.8	1405.2	690.9	615.6	577.9	552.8	525.8	513.3	516.9	516.9
57.5°	16731.8	12927.0	1597.3	651.5	581.5	538.4	524.0	506.1	497.1	502.5	500.7
60°	20312.1	16344.1	2369.0	610.2	547.4	502.5	502.5	488.2	481.0	486.4	484.6
62.5°	24436.3	20269.1	3330.9	579.7	511.5	473.8	481.0	473.8	466.6	470.2	468.4
65°	28093.8	22826.5	3119.1	556.3	475.6	446.9	459.4	455.8	450.5	454.1	452.3
67.5°	28199.7	21878.9	1751.6	531.2	441.5	420.0	437.9	436.1	432.5	436.1	434.3
70°	25166.7	18474.4	987.1	484.6	405.6	387.6	412.8	411.0	407.4	414.6	412.8
72.5°	20163.2	13406.2	721.5	427.1	369.7	353.6	382.3	380.5	380.5	391.2	385.9
75°	11602.6	6898.7	576.1	366.1	332.0	319.5	344.6	346.4	350.0	364.3	353.6
77.5°	3307.6	2150.0	470.2	310.5	285.4	280.0	305.1	308.7	310.5	326.6	312.3
80°	1229.4	990.7	387.6	260.2	233.3	235.1	258.4	263.8	265.6	281.8	263.8
82.5°	784.3	653.3	314.1	201.0	183.1	181.3	210.0	217.2	217.2	219.0	208.2
85°	457.6	391.2	236.9	145.4	129.2	123.8	156.1	168.7	163.3	159.7	152.5
87.5°	306.9	269.2	145.4	80.8	70.0	66.4	91.5	100.5	96.9	91.5	86.1
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)