

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: P193487

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-AFL-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38995 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 575  
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

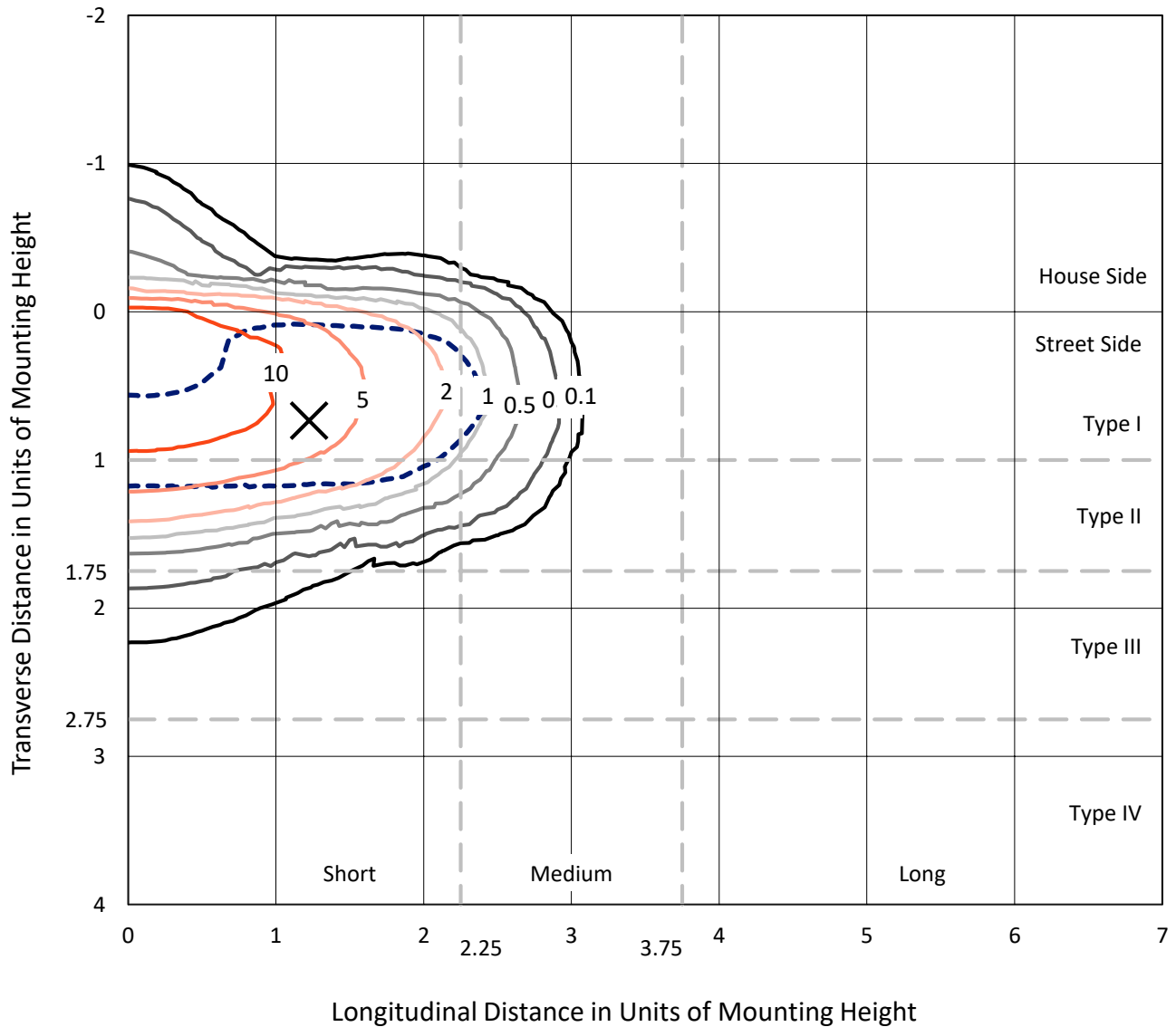


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

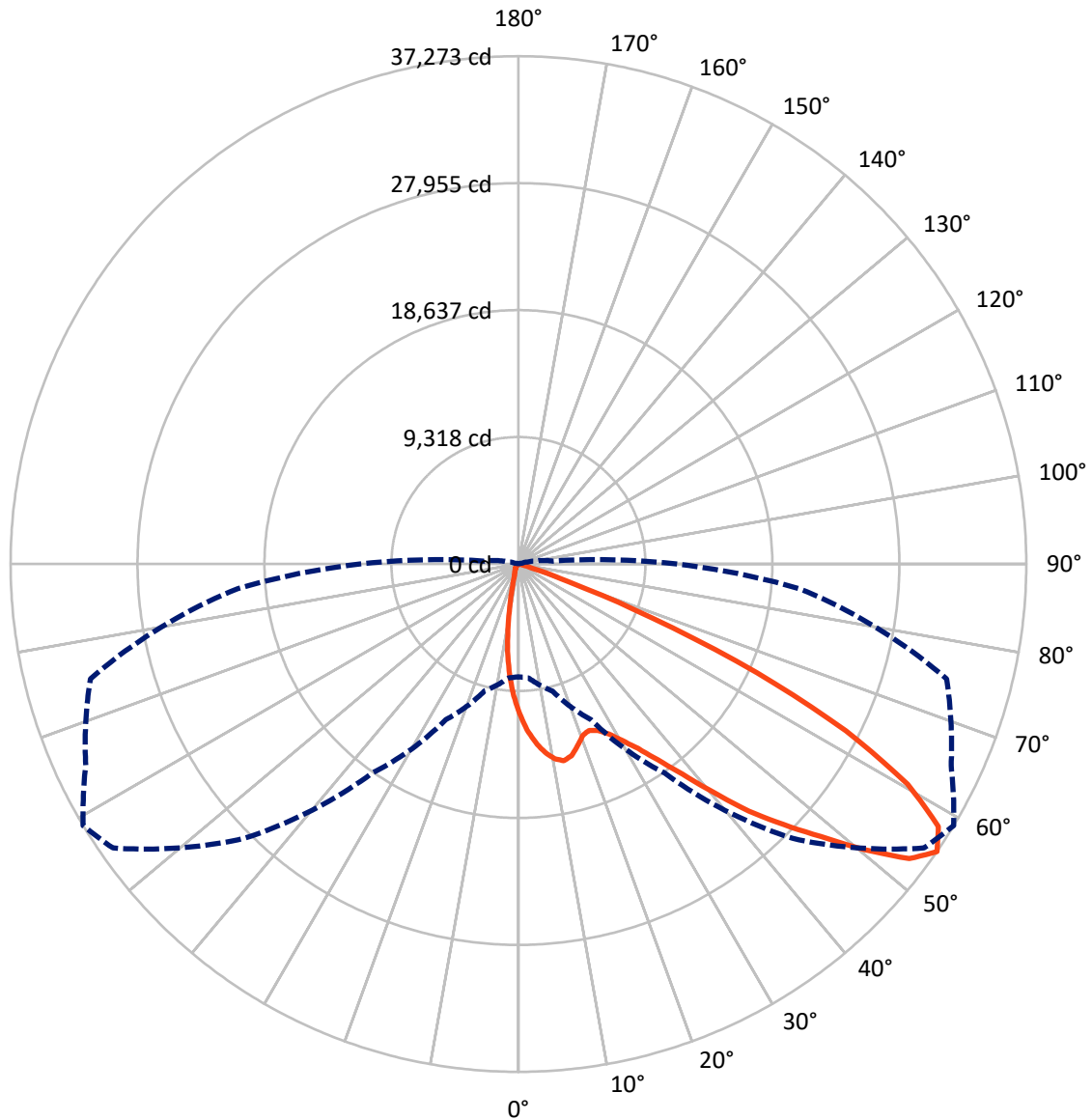


Based on 30 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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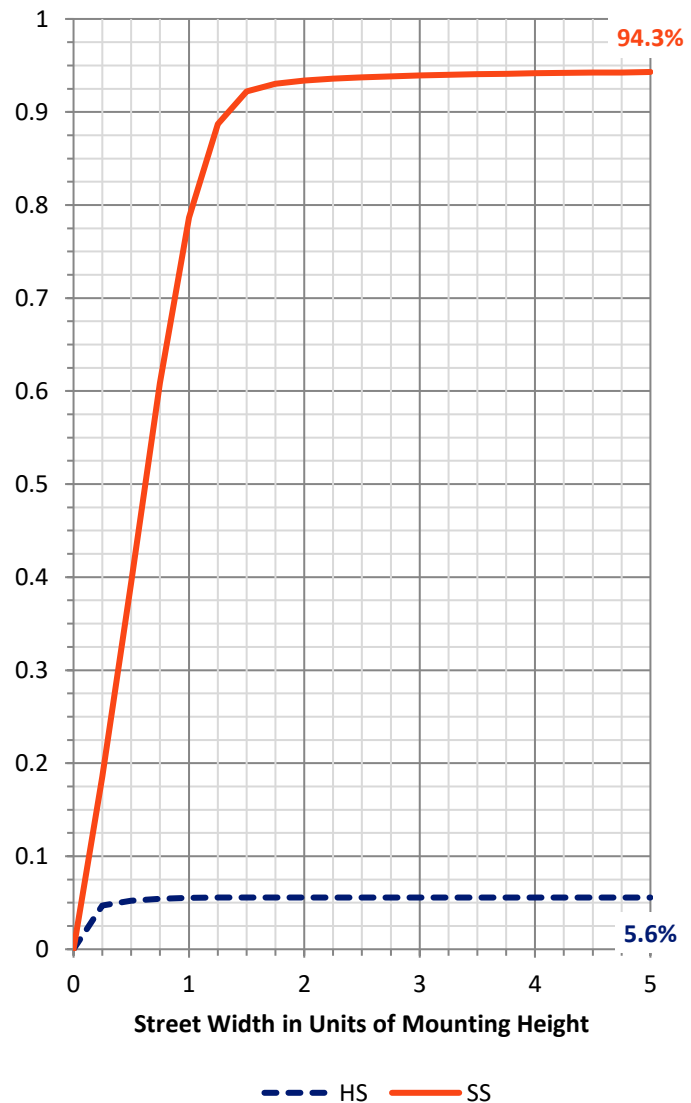
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2178.1	0.0	2178.1
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	36816.9	0.0	36816.9
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	38995.0	0.0	38995.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	919.4	2.4
10°-20°	2201.4	5.6
20°-30°	3745.9	9.6
30°-40°	6442.2	16.5
40°-50°	9946.0	25.5
50°-60°	9998.9	25.6
60°-70°	5127.5	13.1
70°-80°	555.7	1.4
80°-90°	58.1	0.1
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°	38995.0	100.0
0°-180°	38995.0	100.0

**Coefficient of Utilization**



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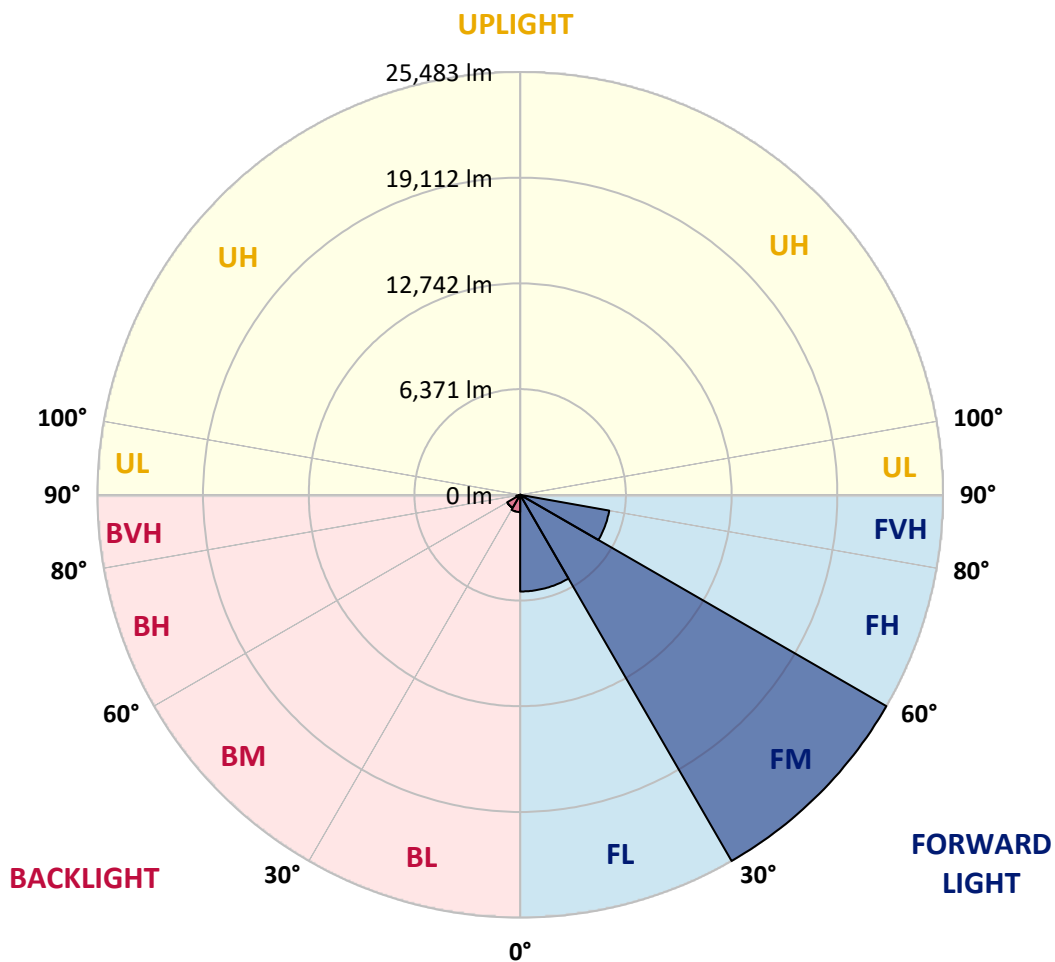
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5827.1	14.9			
FM	(30°-60°)	25483.1	65.3			
FH	(60°-80°)	5449.8	14.0			G3/7500
FVH	(80°-90°)	56.9	0.1			G1/100
BL	(0°-30°)	1039.6	2.7	B3/2500		
BM	(30°-60°)	903.9	2.3	B1/1000		
BH	(60°-80°)	233.3	0.6	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
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°	59°	65°	75°	85°
0°	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0
2.5°	12988.2	12850.2	12808.7	12781.1	12654.6	12495.8	12279.5	12178.2	11971.1	11637.4	11227.8
5°	14178.0	14152.7	14060.6	14010.0	13874.2	13648.7	13303.5	13137.8	12808.7	12247.2	11513.1
7.5°	13657.9	13816.7	13943.3	14155.0	14421.9	14412.7	14122.8	13950.2	13582.0	12841.0	11830.7
10°	11648.9	11777.8	11984.9	12465.9	13446.2	14311.5	14652.0	14527.8	14233.2	13386.4	12136.8
12.5°	11255.4	11241.6	11278.4	11418.8	11932.0	13165.4	14562.3	14813.1	14753.3	13885.7	12426.7
15°	11464.8	11448.7	11444.1	11492.4	11616.7	12136.8	13888.0	14608.3	15070.9	14348.3	12673.0
17.5°	12051.6	11982.6	11945.8	11906.7	11869.8	11998.7	13078.0	14035.3	15119.2	14753.3	12877.8
20°	13057.3	12942.2	12806.4	12585.5	12378.4	12314.0	12737.4	13446.2	14946.6	15061.7	13011.3
22.5°	14320.7	14173.4	13938.7	13535.9	13114.8	12870.9	12905.4	13259.8	14688.9	15397.6	13073.4
25°	15740.5	15551.8	15238.9	14679.7	14060.6	13628.0	13402.5	13526.7	14571.5	15791.2	13144.7
27.5°	17261.7	17052.2	16642.6	15880.9	15179.0	14594.5	14134.3	14118.2	14771.7	16306.6	13259.8
30°	18769.0	18736.8	18202.9	17397.4	16467.7	15756.6	15093.9	15008.7	15330.9	17020.0	13487.6
32.5°	20780.3	20538.6	19885.1	19056.6	17984.3	17130.5	16345.8	16147.9	16189.3	17850.8	13839.7
35°	23316.2	23051.6	22131.1	20987.4	19788.4	18780.5	17912.9	17643.7	17542.4	19210.8	14433.4
37.5°	24954.7	24950.1	24372.5	23208.1	21921.7	20810.2	19866.7	19551.4	19346.6	20853.9	15353.9
40°	24998.5	25106.6	25182.6	25171.0	24255.2	23231.1	22393.4	22004.5	21528.2	23049.3	16543.7
42.5°	23656.8	23935.3	24604.9	25741.8	26284.9	25877.5	25171.0	24789.0	24080.3	25398.9	17993.5
45°	21843.4	22036.7	23208.1	25302.2	27384.8	28501.0	27962.5	27279.0	26344.7	27849.7	19293.7
47.5°	21031.1	21065.6	21822.7	24121.7	27467.7	30650.3	30977.1	29865.6	28402.0	29824.2	20310.8
50°	18603.3	18665.4	19710.2	22075.9	26496.6	31665.2	34005.5	32951.6	30645.7	31345.3	20681.3
52.5°	14021.5	14108.9	15434.5	18713.7	23827.1	31232.5	36173.3	35917.9	33103.4	32088.6	20702.0
55°	8273.0	8388.0	9653.7	12597.0	18741.4	28480.2	36334.4	37273.3	35043.4	32528.1	20669.8
57.5°	3863.8	3944.3	4669.2	6489.5	11655.8	22508.5	33908.9	36343.6	36113.5	32760.6	20897.6
60°	2052.7	2075.7	2250.6	2809.8	5267.6	14272.3	29175.2	32818.1	35137.8	33082.7	21176.1
62.5°	1569.5	1576.4	1567.1	1633.9	2213.8	6335.3	22052.9	26979.8	31209.5	32841.1	20867.7
65°	1360.0	1371.5	1307.1	1291.0	1419.9	2259.8	13101.0	19231.5	24524.4	29580.2	18766.7
67.5°	1219.7	1224.3	1146.0	1079.3	1102.3	1222.0	5168.6	10528.2	16233.0	21682.4	13602.7
70°	1123.0	1118.4	1033.3	927.4	897.5	835.4	1643.1	3859.2	7757.5	10995.4	6326.1
72.5°	994.1	996.4	955.0	816.9	745.6	584.5	761.7	1125.3	2315.1	2996.2	1482.0
75°	881.4	869.9	819.2	731.8	614.4	384.3	377.4	501.7	713.4	708.8	319.9
77.5°	637.4	625.9	642.0	600.6	471.8	248.5	188.7	241.6	290.0	280.8	89.7
80°	467.2	460.2	414.2	499.4	416.5	170.3	117.4	128.9	149.6	126.6	27.6
82.5°	319.9	317.6	292.3	276.1	237.0	103.6	73.6	80.5	96.7	71.3	13.8
85°	50.6	57.5	211.7	168.0	140.4	46.0	50.6	55.2	64.4	39.1	4.6
87.5°	0.0	0.0	99.0	87.4	27.6	18.4	29.9	32.2	32.2	20.7	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0	10977.0
2.5°	11018.4	10788.2	10362.5	9923.0	9515.7	9030.1	8696.4	8445.6	8155.6	8077.4	8247.7
5°	11094.3	10659.4	9743.5	8747.0	7810.4	6772.6	5978.6	5350.4	4782.0	4588.7	4763.6
7.5°	11214.0	10567.3	9073.8	7433.0	5803.7	4183.7	3074.5	2345.0	1880.1	1742.0	1815.7
10°	11333.6	10433.9	8298.3	5877.4	3649.8	2036.6	1325.5	1058.6	959.6	938.9	950.4
12.5°	11432.6	10254.4	7352.5	4179.1	1951.5	1090.8	867.6	823.8	810.0	810.0	814.6
15°	11492.4	9982.8	6231.8	2657.9	1123.0	823.8	757.1	743.3	743.3	745.6	750.2
17.5°	11485.5	9637.6	5005.2	1608.6	840.0	729.5	690.4	678.9	676.6	681.2	683.5
20°	11400.4	9186.6	3774.0	1060.9	731.8	665.1	625.9	605.2	602.9	607.5	612.1
22.5°	11239.3	8629.7	2699.4	816.9	660.5	602.9	554.6	536.2	536.2	540.8	545.4
25°	11043.7	7948.5	1845.6	692.7	596.0	536.2	490.2	474.1	478.7	490.2	492.5
27.5°	10799.8	7182.2	1254.2	593.7	517.8	469.5	434.9	423.4	434.9	451.0	455.6
30°	10590.3	6383.7	895.2	513.2	439.5	405.0	384.3	384.3	400.4	430.3	437.2
32.5°	10429.3	5610.4	690.4	453.3	382.0	352.1	340.6	352.1	377.4	407.3	414.2
35°	10408.5	4973.0	584.5	405.0	340.6	310.7	306.1	326.8	352.1	375.1	379.7
37.5°	10567.3	4383.9	527.0	365.9	303.8	276.1	271.5	296.9	322.2	349.8	356.7
40°	10868.8	3921.3	485.6	329.1	273.8	243.9	234.7	253.1	287.7	324.5	333.7
42.5°	11260.0	3539.3	439.5	292.3	243.9	202.5	191.0	211.7	248.5	287.7	299.2
45°	11632.8	3210.2	388.9	250.8	204.8	156.5	151.9	179.5	197.9	237.0	246.2
47.5°	11837.6	2920.3	345.2	204.8	158.8	126.6	126.6	133.5	151.9	197.9	207.1
50°	11768.6	2687.9	299.2	151.9	110.5	96.7	96.7	94.4	122.0	158.8	165.7
52.5°	11630.5	2554.4	257.7	117.4	75.9	69.0	62.1	69.0	85.1	101.3	103.6
55°	11609.8	2531.4	216.3	94.4	52.9	46.0	34.5	34.5	34.5	32.2	27.6
57.5°	11770.9	2568.2	181.8	75.9	39.1	29.9	18.4	0.0	0.0	0.0	0.0
60°	11936.6	2607.3	156.5	52.9	27.6	16.1	2.3	0.0	0.0	0.0	0.0
62.5°	11660.4	2519.9	131.2	32.2	20.7	6.9	0.0	0.0	0.0	0.0	0.0
65°	10242.9	2144.8	103.6	23.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7285.8	1436.0	69.0	13.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	3325.3	600.6	43.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	711.1	186.4	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	145.0	135.8	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	46.0	214.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.6	154.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)