

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: P383333

Luminaire Tested: **GLEON-SA6C-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38606.1 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

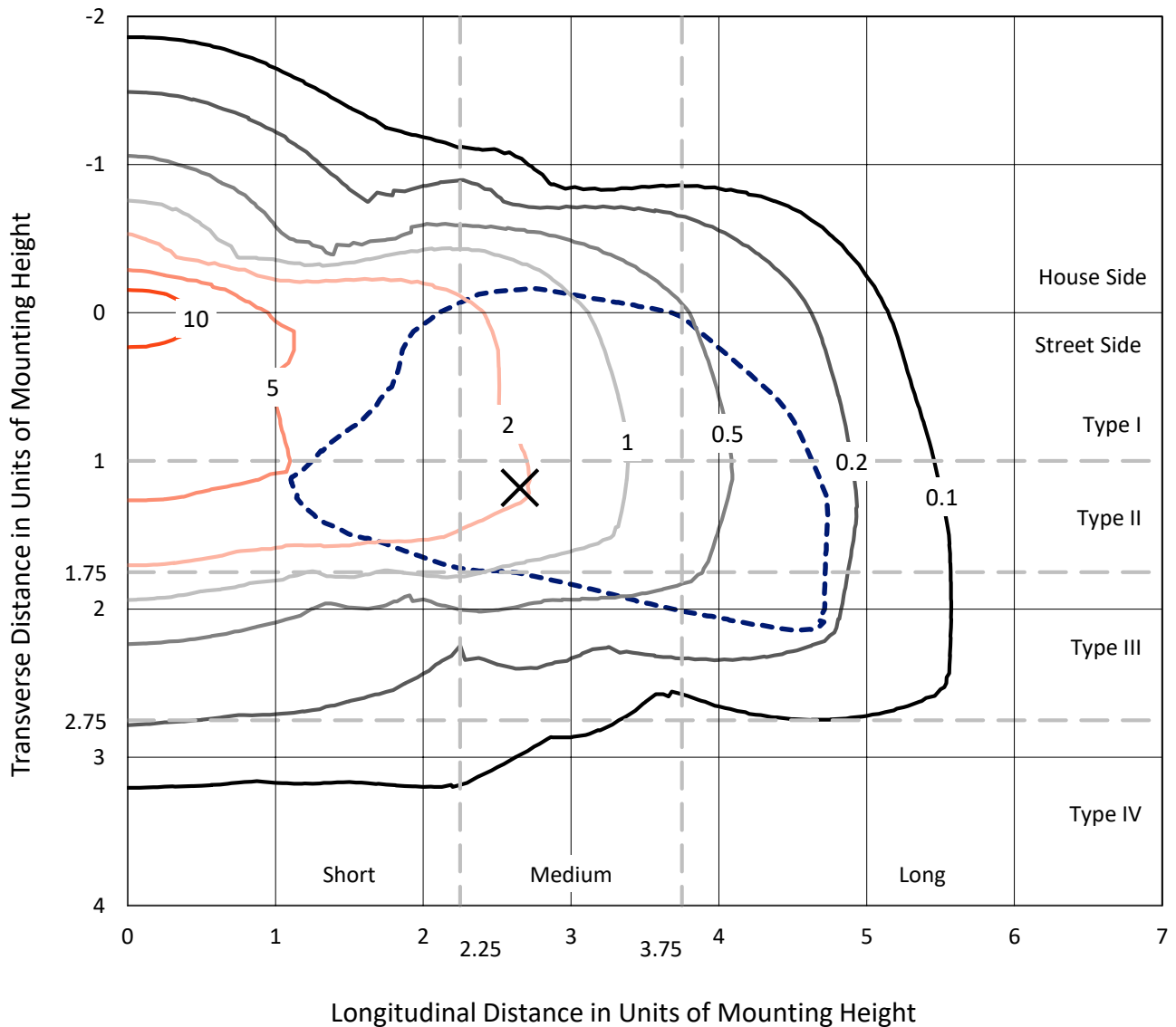
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383333
 CATALOG NUMBER: GLEON-SA6C-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

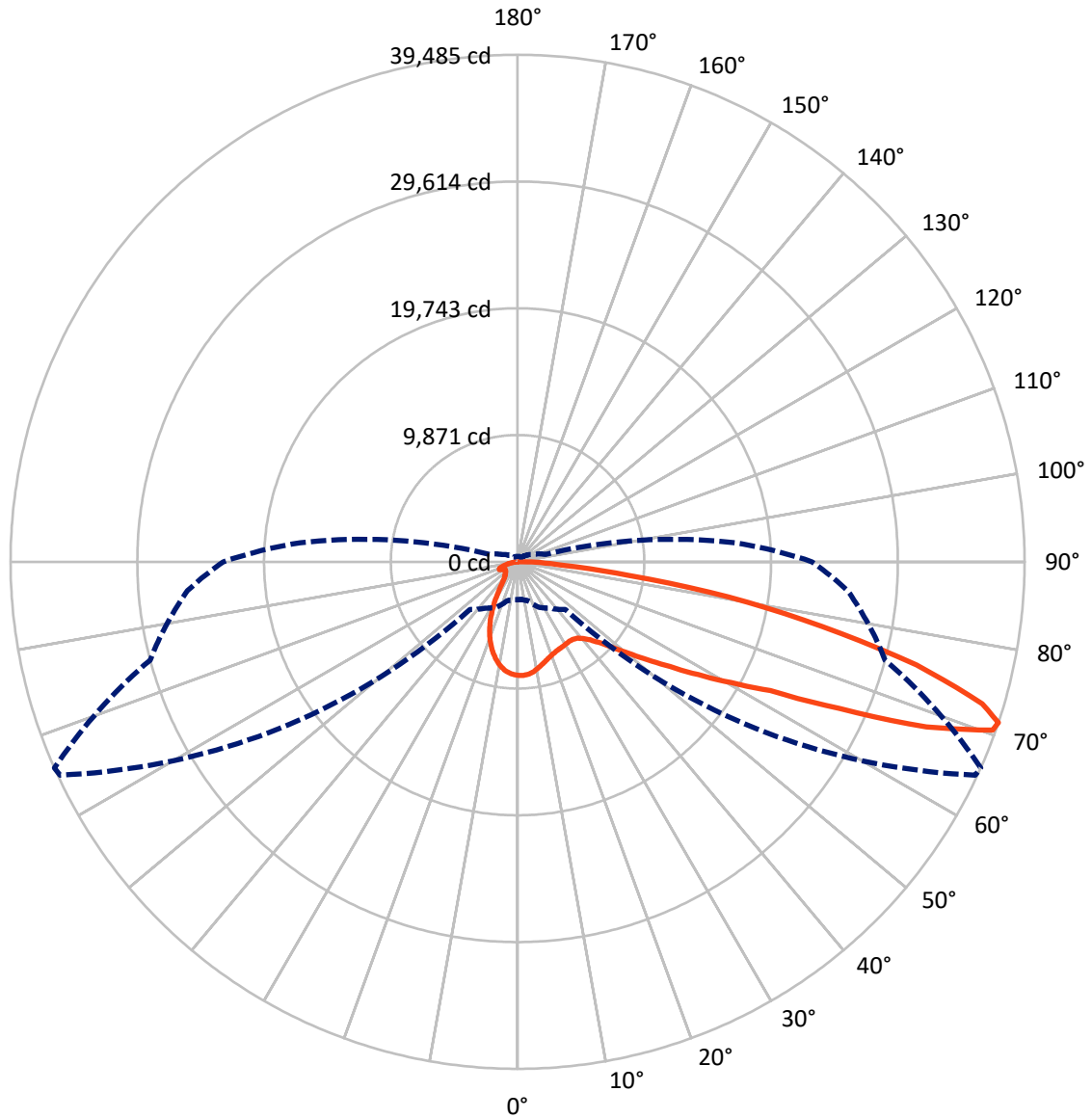
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P383333
CATALOG NUMBER: GLEON-SA6C-735-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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 CATALOG NUMBER: GLEON-SA6C-735-U-SL2

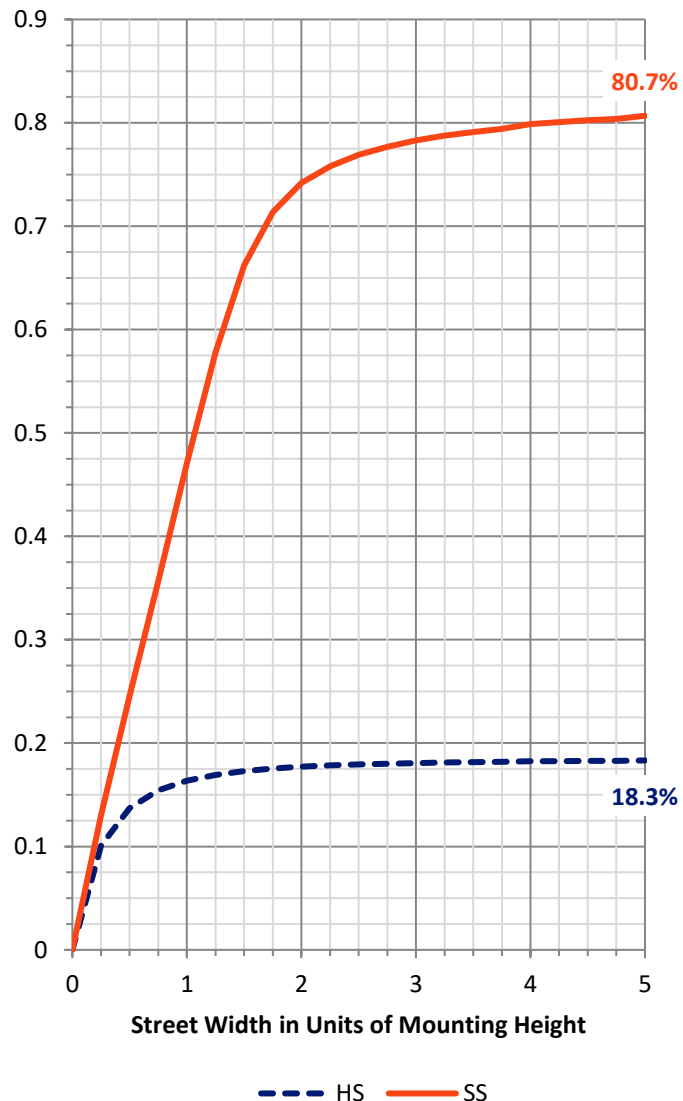
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7154.8	0.0	7154.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	31451.4	0.0	31451.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	38606.1	0.0	38606.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.5	2.0
10°-20°	1867.1	4.8
20°-30°	2508.0	6.5
30°-40°	3299.3	8.5
40°-50°	4799.5	12.4
50°-60°	7497.4	19.4
60°-70°	9391.7	24.3
70°-80°	7163.8	18.6
80°-90°	1300.9	3.4
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°	38606.1	100.0
0°-180°	38606.1	100.0

Coefficient of Utilization

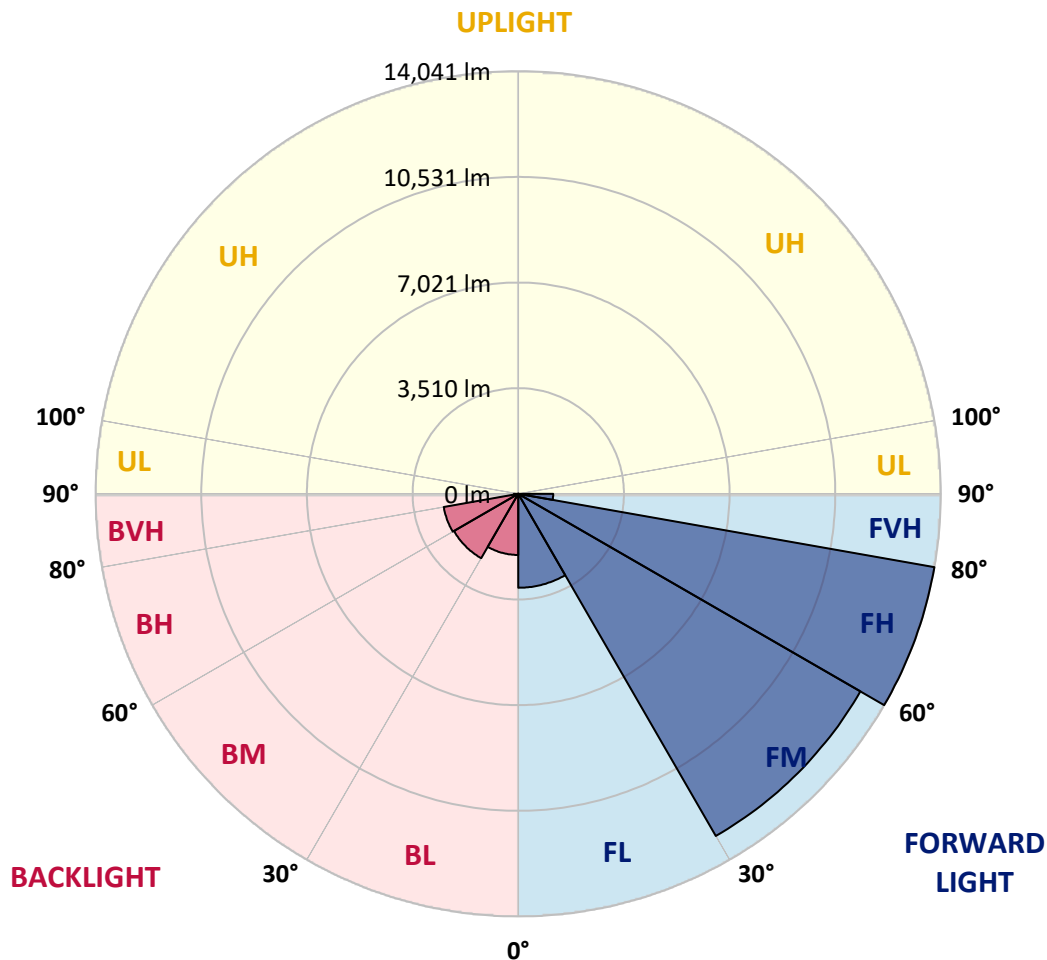


REPORT NUMBER: P383333
 CATALOG NUMBER: GLEON-SA6C-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3121.8	8.1			
FM (30°-60°)	13128.0	34.0			
FH (60°-80°)	14041.5	36.4			G5
FVH (80°-90°)	1160.0	3.0			G5
BL (0°-30°)	2031.8	5.3	B3/2500		
BM (30°-60°)	2468.2	6.4	B2/2500		
BH (60°-80°)	2514.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	140.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9
2.5°	8680.0	8666.7	8706.6	8748.0	8763.9	8790.6	8830.6	8853.2	8851.9	8855.9	8842.6
5°	8104.2	8086.9	8166.8	8232.1	8357.4	8498.7	8670.7	8793.3	8796.0	8865.3	8883.9
7.5°	7558.9	7547.0	7639.0	7744.2	7889.6	8105.5	8384.0	8648.0	8664.0	8851.9	8917.2
10°	7121.8	7119.1	7208.4	7323.1	7492.3	7733.6	8053.5	8440.0	8464.0	8787.9	8922.5
12.5°	6780.5	6785.9	6863.2	6993.8	7172.5	7424.3	7770.9	8206.7	8245.4	8686.6	8891.9
15°	6528.7	6550.0	6612.6	6744.6	6920.6	7176.5	7532.3	7990.8	8049.5	8573.3	8874.6
17.5°	6384.6	6408.7	6452.6	6561.9	6727.3	6973.8	7311.1	7813.5	7866.9	8486.7	8875.9
20°	6342.1	6362.0	6387.3	6453.9	6594.0	6817.9	7136.5	7653.6	7711.0	8417.4	8889.2
22.5°	6426.0	6440.6	6443.3	6438.0	6523.3	6705.9	7009.8	7536.3	7597.6	8372.1	8898.6
25°	6606.0	6625.9	6611.3	6561.9	6534.0	6645.9	6944.5	7459.0	7520.3	8338.7	8879.9
27.5°	6876.5	6879.2	6867.2	6803.2	6671.3	6652.6	6924.5	7413.7	7472.3	8300.1	8841.2
30°	7244.5	7261.8	7240.5	7153.8	6937.9	6759.2	6948.5	7369.8	7423.0	8250.8	8778.6
32.5°	7674.9	7717.6	7716.3	7625.6	7316.4	6997.8	7047.2	7343.0	7384.4	8198.8	8702.6
35°	8121.5	8180.1	8289.4	8250.8	7868.2	7375.1	7236.4	7385.7	7413.7	8192.1	8649.3
37.5°	8585.3	8644.0	8869.3	8973.2	8525.3	7914.9	7535.0	7536.3	7549.6	8273.4	8645.3
40°	9070.5	9133.2	9471.7	9742.3	9377.1	8598.7	8016.2	7850.9	7836.3	8473.4	8723.9
42.5°	9750.3	9806.3	10212.8	10558.1	10322.1	9474.4	8681.3	8336.0	8305.4	8865.3	8975.8
45°	10610.0	10658.0	11089.9	11459.1	11337.8	10474.0	9517.1	9003.9	8998.6	9518.4	9486.4
47.5°	11632.4	11669.7	12057.6	12414.8	12458.8	11624.4	10567.4	10034.3	9947.5	10414.1	10276.8
50°	12697.4	12738.7	13002.6	13386.5	13713.0	13163.9	11919.0	11296.5	11180.5	11596.4	11396.5
52.5°	13402.5	13457.1	13686.4	14172.9	15123.3	14851.4	13517.1	12826.7	12650.7	13029.3	12876.0
55°	13088.0	13210.6	13561.1	14340.9	16250.9	17429.3	15488.6	14611.4	14412.8	14727.4	14636.8
57.5°	11657.7	11825.6	12304.2	13507.8	16409.6	19700.6	18469.0	16713.5	16573.5	16482.9	16524.2
60°	9043.8	9205.2	9798.3	11367.1	15304.6	21358.7	22954.2	19304.6	19102.0	18245.0	18282.3
62.5°	6400.7	6319.3	6725.9	7873.5	12436.2	21553.3	28057.9	22770.3	22103.8	20105.8	19941.8
65°	4881.1	4862.5	5045.1	5410.3	7532.3	19224.7	31098.3	28595.1	27554.1	22294.4	21907.9
67.5°	4010.8	3977.4	4157.4	4689.2	4850.5	12402.8	31165.0	35353.0	34330.7	25018.9	24181.9
70°	3297.7	3260.3	3428.3	4114.7	4482.6	6290.1	26229.2	39310.5	39255.8	28468.5	25898.6
71°	2956.5	2929.7	3131.0	3893.5	4404.0	5242.4	22646.3	39321.1	39485.0	29636.2	25797.3
72.5°	2407.2	2416.6	2629.9	3465.5	4345.3	4629.2	16644.1	37488.4	37834.9	30749.1	24876.2
75°	1599.5	1607.5	1887.4	2665.8	4213.4	4529.3	9147.8	31456.9	32094.1	30082.7	22699.6
77.5°	1074.4	1071.7	1262.2	1828.7	3670.9	4529.3	5363.7	23527.4	24227.1	23936.6	17499.9
80°	739.7	734.4	869.0	1262.2	2779.2	4583.9	4146.7	16488.2	16700.1	12926.6	7112.5
82.5°	453.2	457.2	567.8	891.7	1891.4	4125.4	3914.8	8990.6	8759.9	3625.6	1776.7
85°	259.9	258.6	362.6	603.8	1214.3	3481.6	3817.5	3869.5	3549.6	1091.7	642.5
87.5°	93.3	100.0	194.6	334.5	695.8	2424.5	3239.0	2012.7	1814.1	493.2	290.5
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°	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9	8843.9
2.5°	8833.2	8841.2	8831.9	8778.6	8733.3	8659.9	8618.7	8561.3	8544.0	8536.1	8557.4
5°	8866.6	8869.3	8790.6	8650.6	8493.4	8308.1	8174.8	8010.8	7933.5	7900.2	7921.5
7.5°	8897.2	8885.2	8713.3	8445.4	8154.8	7832.3	7545.6	7283.0	7129.8	7067.1	7072.5
10°	8901.2	8850.5	8574.7	8160.2	7709.6	7236.4	6796.6	6391.3	6135.5	5968.8	6019.5
12.5°	8859.9	8774.6	8370.7	7790.9	7165.7	6520.6	5926.1	5318.4	4953.1	4783.9	4789.2
15°	8827.9	8673.3	8120.1	7356.3	6516.6	5662.2	4850.5	4136.1	3746.9	3573.5	3492.3
17.5°	8801.3	8564.0	7829.6	6867.2	5750.3	4666.6	3690.9	3053.7	2840.5	2789.8	2768.5
20°	8763.9	8448.0	7505.7	6300.7	4877.1	3552.3	2695.2	2380.6	2382.0	2440.6	2448.6
22.5°	8711.9	8316.1	7160.4	5664.9	3940.1	2587.2	2112.7	2022.0	2114.1	2225.9	2246.0
25°	8634.6	8160.2	6776.5	4962.4	3004.4	1988.8	1804.8	1800.8	1912.7	2030.0	2047.4
27.5°	8525.3	7956.2	6350.0	4208.0	2214.0	1690.1	1616.8	1644.8	1727.5	1812.8	1819.4
30°	8378.7	7718.9	5879.5	3412.3	1735.5	1504.8	1496.9	1522.1	1572.8	1632.8	1638.1
32.5°	8217.5	7477.7	5377.0	2641.9	1486.2	1404.9	1412.9	1424.9	1448.9	1472.9	1478.2
35°	8070.8	7231.0	4862.5	2007.4	1367.6	1339.6	1334.3	1331.6	1334.3	1326.2	1327.5
37.5°	7976.2	7027.1	4326.7	1598.2	1299.6	1282.3	1266.3	1246.3	1223.6	1210.3	1213.0
40°	7941.5	6875.2	3784.1	1380.9	1243.6	1231.6	1201.0	1158.3	1131.6	1123.6	1123.6
42.5°	8034.9	6796.6	3260.3	1271.6	1196.9	1177.0	1126.3	1077.0	1057.0	1055.6	1054.3
45°	8320.1	6828.5	2761.9	1211.7	1154.3	1115.6	1049.0	1007.7	994.3	997.0	995.7
47.5°	8831.9	7029.8	2335.3	1171.6	1111.6	1061.0	986.3	953.1	937.0	937.0	938.3
50°	9702.3	7500.4	1995.4	1138.4	1075.7	1010.4	941.0	899.7	878.4	877.1	877.1
52.5°	10969.9	8342.8	1783.4	1110.3	1035.7	965.0	895.7	843.7	818.5	813.1	810.4
55°	12558.8	9550.3	1724.8	1091.7	982.3	915.7	841.1	789.1	761.1	749.1	747.8
57.5°	14335.6	11019.3	1840.7	1069.0	927.7	857.0	781.1	731.7	702.5	687.8	686.5
60°	16133.7	12622.7	2314.0	1037.0	882.4	793.1	719.8	674.4	645.1	629.2	626.5
62.5°	17934.4	14312.9	3280.4	1034.4	850.4	731.7	657.1	618.5	590.5	573.2	569.2
65°	19965.8	16163.0	4378.6	1105.0	839.7	675.7	593.1	562.5	538.5	522.5	521.2
67.5°	22298.4	18251.6	4273.4	1250.3	875.7	625.2	533.1	509.2	491.9	478.5	477.1
70°	23392.7	17925.1	2656.5	1352.9	926.4	575.8	475.8	458.5	445.2	435.9	431.9
71°	22934.2	17020.0	2227.3	1341.0	921.0	554.5	453.2	439.9	426.6	418.5	414.5
72.5°	21683.9	15521.8	1858.1	1247.6	861.0	515.8	423.9	410.5	398.5	389.2	386.6
75°	19458.0	13862.4	1487.5	997.0	686.5	435.9	371.9	357.2	347.9	342.5	337.2
77.5°	14303.5	9892.9	1150.3	787.7	505.2	355.9	317.2	306.6	297.3	289.2	285.2
80°	5479.6	3832.1	774.4	587.8	370.6	281.2	255.9	250.6	241.3	236.0	236.0
82.5°	1475.6	1145.0	413.2	355.9	247.9	205.3	195.9	193.3	185.3	174.6	176.0
85°	597.1	505.2	232.0	195.9	151.9	121.3	132.0	133.3	124.0	110.7	112.0
87.5°	262.6	214.6	129.3	86.6	66.6	46.7	60.0	60.0	54.7	45.3	41.4
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)