

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: P382674

Luminaire Tested: **GLEON-SA0C-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47525.7 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

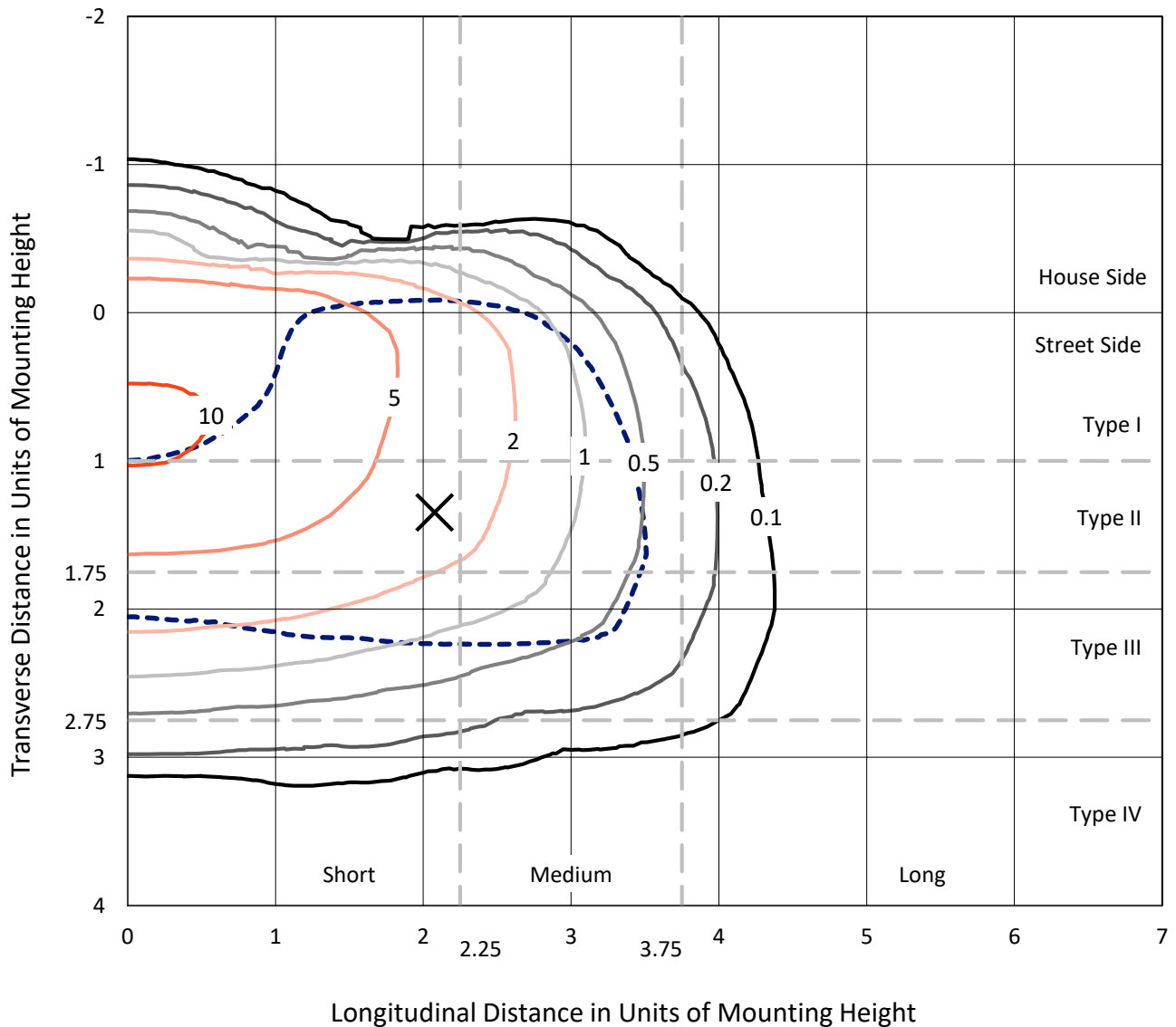
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382674
 CATALOG NUMBER: GLEON-SA0C-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

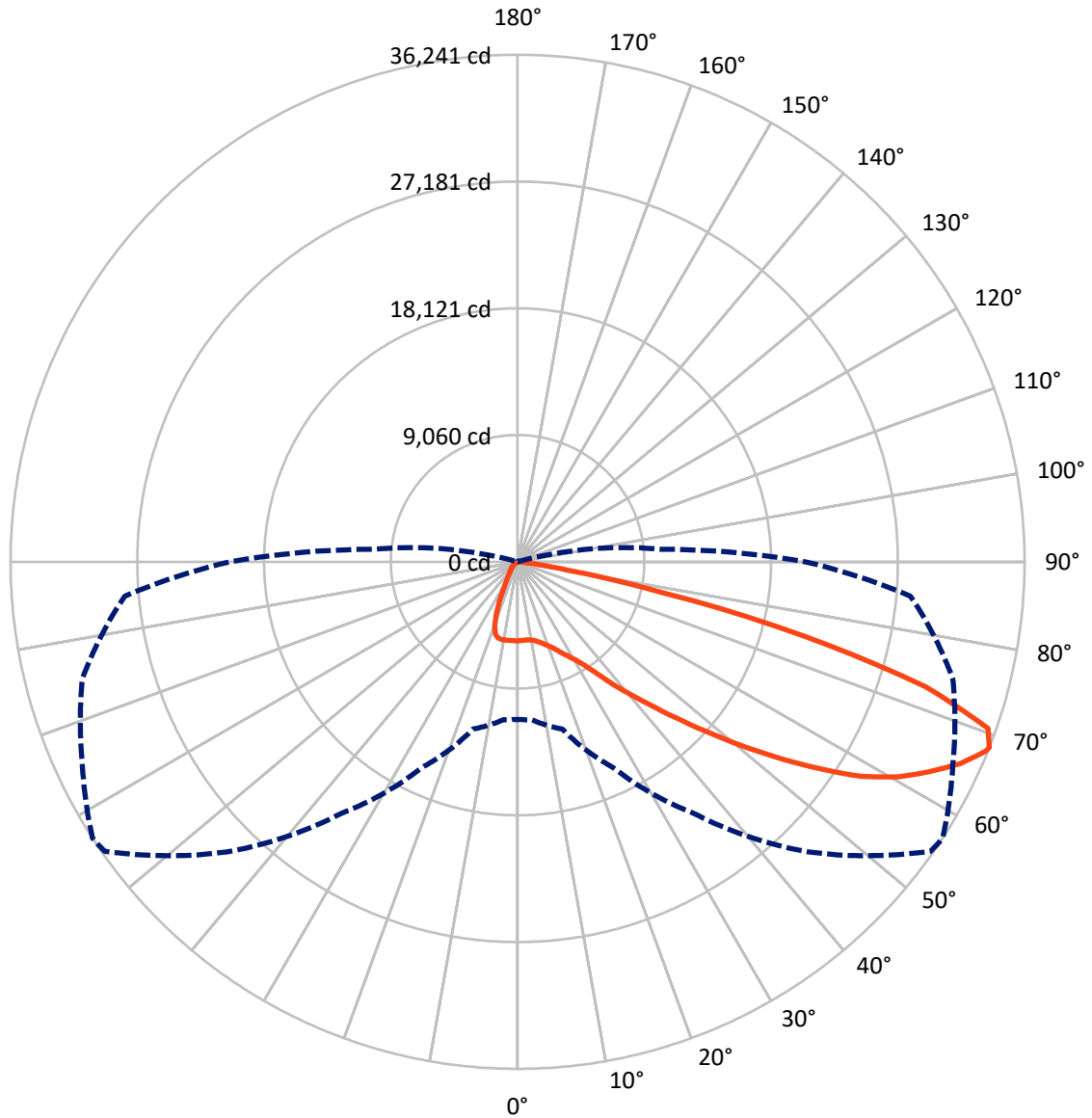
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

REPORT NUMBER: P382674
CATALOG NUMBER: GLEON-SA0C-735-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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 CATALOG NUMBER: GLEON-SA0C-735-U-T3-HSS

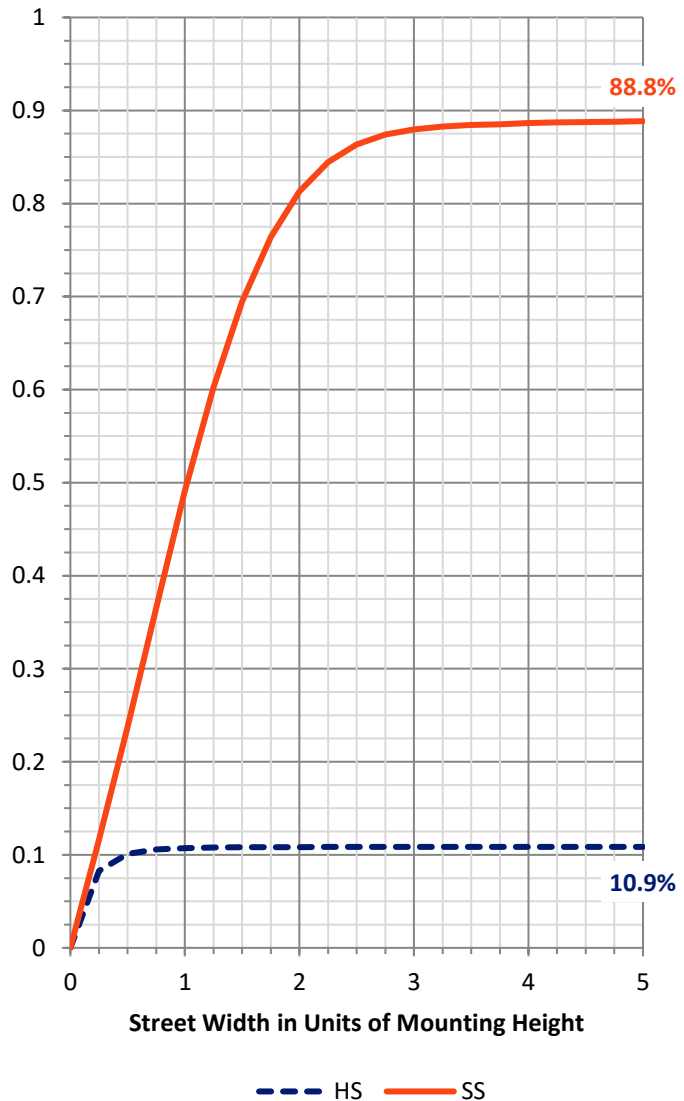
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5211.5	0.0	5211.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	42314.2	0.0	42314.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	47525.7	0.0	47525.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.5	1.1
10°-20°	1464.5	3.1
20°-30°	2526.4	5.3
30°-40°	4360.5	9.2
40°-50°	7458.8	15.7
50°-60°	11933.3	25.1
60°-70°	13787.7	29.0
70°-80°	5268.5	11.1
80°-90°	197.5	0.4
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°	47525.7	100.0
0°-180°	47525.7	100.0

Coefficient of Utilization



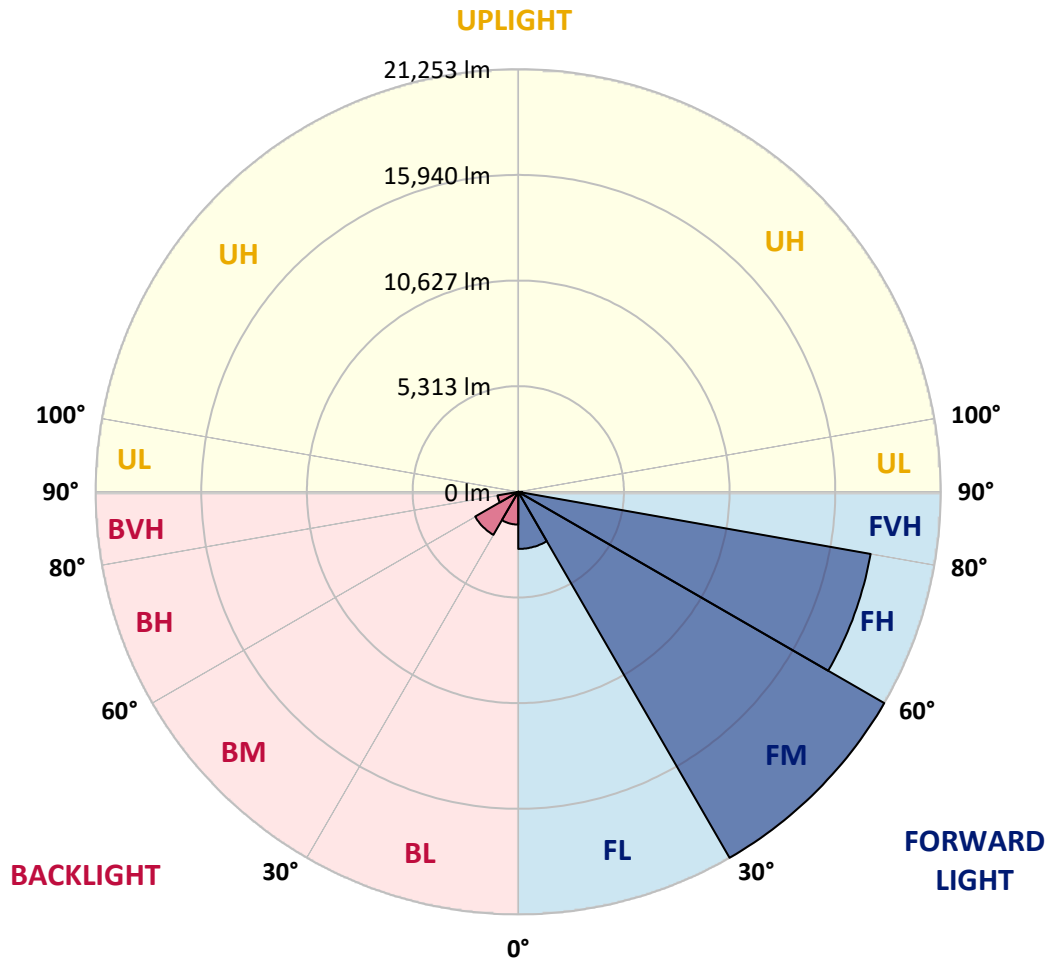
REPORT NUMBER: P382674
 CATALOG NUMBER: GLEON-SA0C-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2872.5	6.0			
FM (30°-60°)	21253.1	44.7			
FH (60°-80°)	17994.8	37.9			G5
FVH (80°-90°)	193.9	0.4			G2/225
BL (0°-30°)	1647.0	3.5	B3/2500		
BM (30°-60°)	2499.5	5.3	B2/2500		
BH (60°-80°)	1061.4	2.2	B3/2500		G3/2500
BVH (80°-90°)	3.6	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-G5

Type III Short





REPORT NUMBER: P382674

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3
2.5°	5514.8	5539.4	5557.4	5568.7	5582.1	5611.4	5620.3	5633.8	5640.5	5640.5	5656.3
5°	5296.8	5323.7	5361.9	5393.4	5456.3	5537.2	5595.6	5618.1	5658.5	5694.5	5714.8
7.5°	5094.4	5125.9	5170.9	5245.1	5353.0	5483.3	5604.6	5636.0	5714.8	5791.2	5829.3
10°	4964.1	4988.9	5047.3	5152.9	5294.5	5476.5	5647.3	5685.5	5820.3	5948.4	6020.3
12.5°	4919.2	4941.7	5002.3	5121.5	5296.8	5510.2	5746.2	5802.3	6000.1	6186.7	6287.8
15°	4984.3	4988.9	5054.0	5166.4	5339.4	5593.4	5910.2	5977.6	6227.1	6469.8	6595.6
17.5°	5236.0	5215.8	5249.6	5299.0	5436.0	5703.5	6083.3	6184.4	6517.0	6802.3	6921.5
20°	5865.3	5865.3	5788.9	5654.0	5656.3	5874.2	6317.0	6431.6	6838.3	7168.7	7276.6
22.5°	6941.7	6921.5	6768.7	6438.3	6135.0	6168.7	6602.3	6750.7	7224.9	7577.7	7613.6
25°	8236.1	8211.4	7975.4	7510.2	6984.4	6645.1	6988.9	7159.7	7685.5	7997.9	7923.7
27.5°	9607.0	9586.7	9353.0	8775.5	8027.1	7404.7	7449.6	7611.4	8155.2	8463.1	8227.1
30°	10935.1	10941.8	10710.4	10117.1	9269.8	8373.2	8033.9	8128.2	8611.4	8923.8	8586.7
32.5°	12198.0	12207.0	12007.0	11344.0	10553.0	9499.1	8842.9	8818.1	9141.7	9449.6	9063.1
35°	13323.8	13346.4	13209.3	12694.7	11856.5	10753.0	9892.3	9833.9	9894.6	10242.9	9793.5
37.5°	14409.3	14422.8	14319.4	13885.6	13184.6	12130.6	11218.2	11135.1	11004.7	11272.1	10757.5
40°	15598.1	15564.4	15445.2	15051.9	14449.7	13651.9	12643.0	12499.1	12272.1	12510.4	12025.0
42.5°	16703.7	16665.5	16685.7	16240.8	15732.9	15216.1	14303.6	14056.5	13923.8	14198.0	13580.0
45°	18085.7	18065.5	18132.9	17746.4	17335.2	16959.8	16207.1	15937.4	15879.0	16200.4	15461.0
47.5°	19449.9	19499.2	19708.3	19544.2	19378.0	19047.5	18222.8	18101.5	18137.4	18526.2	17445.3
50°	20586.9	20645.3	21218.4	21407.2	21647.7	21454.4	20627.4	20553.2	20694.8	21045.3	19580.2
52.5°	21409.4	21528.5	22240.9	23110.6	23987.0	24117.3	23292.6	23225.2	23416.2	23470.2	21229.7
55°	21980.2	22085.9	22892.6	24483.7	26268.0	26829.8	26317.4	26056.7	26020.7	25488.2	22964.5
57.5°	22081.3	22070.1	23229.7	25371.3	28056.7	29506.2	29182.6	28926.4	28189.4	27353.4	24953.3
60°	21510.6	21575.8	22921.8	25679.1	29180.4	31531.0	31555.7	31223.1	30074.7	29166.8	26881.5
62.5°	19753.2	20018.4	21378.0	24872.4	29166.8	32346.7	33295.1	33041.2	31668.1	30652.3	28836.5
65°	16903.7	16998.1	18294.8	22108.3	27196.1	32005.2	34861.4	34767.0	33104.0	32095.1	29841.0
67.5°	12344.0	12139.6	13501.4	17409.3	23025.2	30014.1	35985.0	36104.1	34211.9	32391.7	28771.4
68°	11265.4	11326.0	12386.8	16247.5	21933.0	29310.7	36059.2	36241.2	34322.0	32198.4	28187.0
70°	6714.8	6831.6	7777.7	11186.8	16685.7	25330.8	35259.2	35674.9	33665.9	30205.2	24380.3
72.5°	1714.6	1854.0	2748.3	5006.9	9530.6	17847.5	29764.6	30468.0	29229.8	24503.9	16458.8
75°	705.6	741.6	982.0	1649.5	3550.6	8040.7	19618.4	21124.1	20263.3	14669.9	7438.3
77.5°	487.7	512.4	631.5	914.6	1537.1	2725.9	9618.1	10705.8	9645.2	5006.9	1622.5
80°	350.5	370.8	451.7	609.0	883.2	973.1	3134.9	3624.8	2878.7	1098.9	402.2
82.5°	209.0	224.7	337.1	433.7	537.1	465.2	779.8	885.4	833.7	546.1	179.8
85°	103.4	121.4	226.9	310.1	289.9	195.5	238.2	265.2	328.1	332.6	96.6
87.5°	6.7	13.5	132.6	186.5	80.9	44.9	69.7	85.4	116.8	164.0	40.4
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°	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3	5647.3
2.5°	5663.1	5665.3	5649.6	5642.8	5647.3	5620.3	5609.1	5613.6	5613.6	5620.3	5609.1
5°	5719.2	5719.2	5692.2	5656.3	5636.0	5584.3	5550.7	5541.7	5535.0	5530.4	5521.5
7.5°	5840.5	5827.1	5779.9	5701.3	5633.8	5521.5	5436.0	5391.1	5368.6	5359.7	5353.0
10°	6036.1	6011.4	5932.7	5786.7	5631.6	5431.6	5245.1	5112.4	5002.3	4957.4	4930.4
12.5°	6299.0	6263.1	6130.4	5887.8	5615.8	5247.3	4842.8	4454.0	4092.2	3943.9	3869.7
15°	6602.3	6550.7	6341.7	5973.2	5523.7	4831.6	3952.9	3272.0	2770.9	2582.1	2501.2
17.5°	6910.2	6842.9	6526.0	6027.1	5247.3	3970.9	2773.1	2094.4	1759.6	1669.7	1638.2
20°	7220.3	7121.5	6685.5	5986.7	4622.5	2863.0	1829.3	1530.3	1433.7	1406.7	1397.8
22.5°	7514.8	7361.9	6829.4	5829.3	3660.7	1921.4	1447.3	1352.8	1321.4	1305.7	1301.2
25°	7771.0	7557.5	6955.2	5343.9	2591.1	1451.7	1303.4	1271.9	1231.5	1202.3	1204.5
27.5°	8011.4	7753.0	7031.6	4543.9	1728.1	1240.4	1206.7	1164.1	1089.9	1047.2	1047.2
30°	8301.3	8013.6	7087.8	3496.7	1271.9	1096.6	1069.7	1004.5	903.4	847.2	847.2
32.5°	8737.3	8409.2	7051.8	2454.0	1054.0	964.1	901.2	811.3	701.2	647.2	644.9
35°	9404.7	9020.4	6795.6	1609.1	930.3	838.2	737.1	627.0	530.3	485.4	483.2
37.5°	10303.6	9838.4	6220.3	1150.6	833.7	721.4	600.0	478.6	406.7	377.6	375.3
40°	11469.9	10789.0	5397.9	932.6	743.8	609.0	462.9	370.8	321.4	298.8	301.2
42.5°	12869.9	11807.0	4411.3	804.5	656.2	501.2	361.8	292.1	260.6	244.9	240.4
45°	14425.0	12811.5	3377.6	716.8	568.5	404.5	283.2	231.5	206.7	197.8	197.8
47.5°	16135.1	13789.0	2472.0	640.4	474.2	312.3	226.9	188.7	168.5	161.8	159.6
50°	17688.0	14467.7	1782.1	559.6	388.7	247.2	184.3	157.3	143.8	134.8	134.8
52.5°	18982.4	14681.2	1312.4	471.9	314.6	197.8	152.8	134.8	121.4	114.6	114.6
55°	20121.8	14593.5	975.3	388.7	253.9	161.8	130.3	114.6	103.4	96.6	96.6
57.5°	21213.9	14310.4	728.1	316.8	204.5	130.3	110.1	96.6	85.4	80.9	80.9
60°	22106.1	13838.5	541.6	256.2	164.0	105.6	92.1	78.6	69.7	62.9	62.9
62.5°	22829.7	13317.1	397.8	211.3	130.3	83.2	71.9	65.2	51.7	44.9	44.9
65°	22834.2	12451.9	298.8	175.3	101.2	65.2	53.9	51.7	33.7	26.9	24.7
67.5°	21182.5	10735.1	229.3	150.5	78.6	49.5	40.4	42.7	18.0	11.3	8.9
68°	20582.5	10299.1	215.7	148.3	74.2	47.2	38.2	42.7	15.7	8.9	6.7
70°	17353.1	8193.4	173.1	143.8	65.2	36.0	31.5	42.7	13.5	6.7	4.5
72.5°	11099.1	4755.2	128.1	114.6	49.5	26.9	20.2	38.2	13.5	4.5	2.2
75°	4723.7	1474.2	87.7	80.9	29.3	20.2	13.5	24.7	8.9	2.2	0.0
77.5°	995.5	332.6	51.7	49.5	20.2	13.5	8.9	6.7	2.2	0.0	0.0
80°	256.2	96.6	26.9	24.7	11.3	6.7	4.5	0.0	0.0	0.0	0.0
82.5°	80.9	38.2	15.7	11.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.4	22.5	8.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.5	6.7	2.2	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)