

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: P382708

Luminaire Tested: **GLEON-SA0D-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0D-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51852.7 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 640  
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

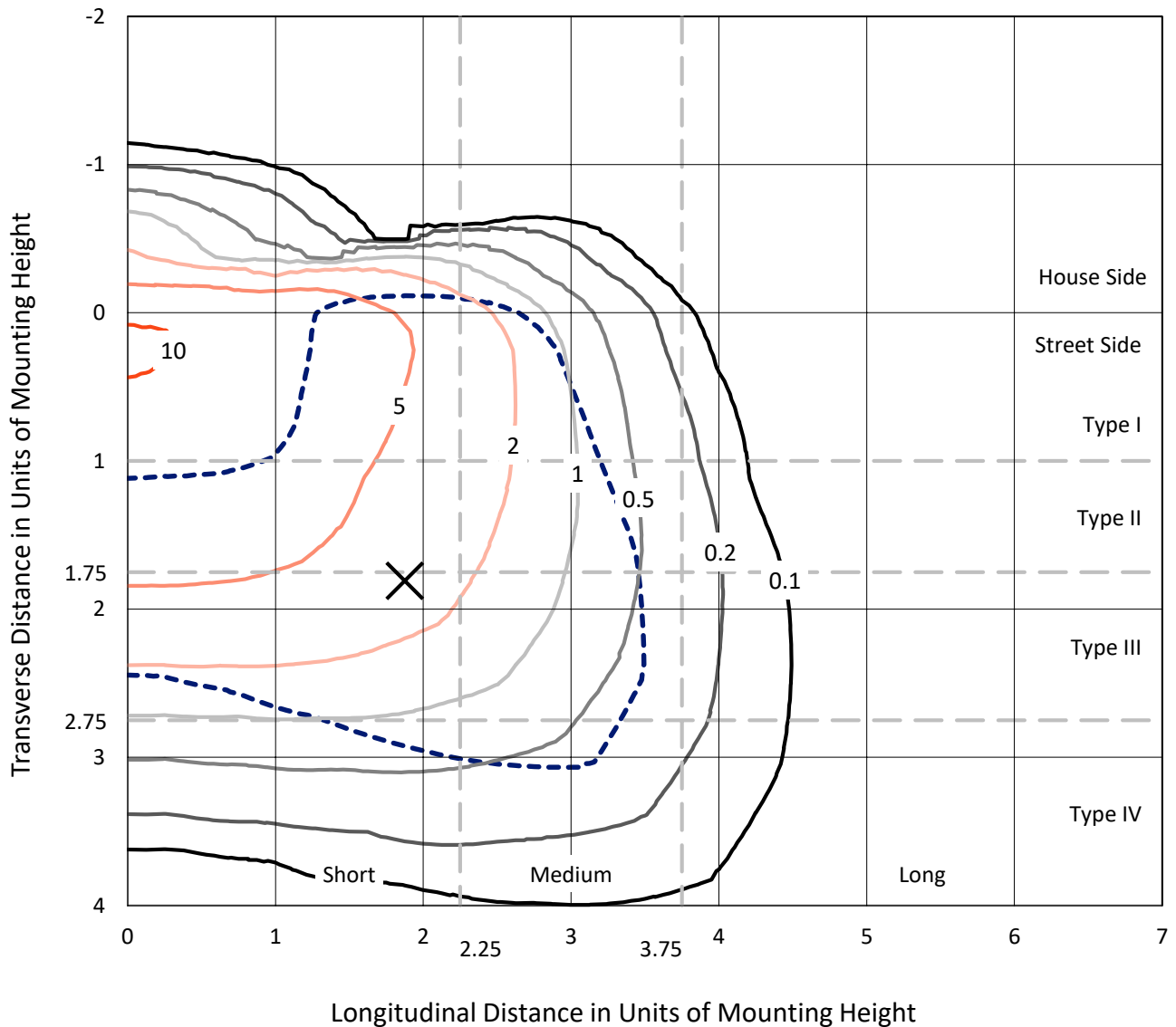




REPORT NUMBER: P382708  
 CATALOG NUMBER: GLEON-SA0D-735-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

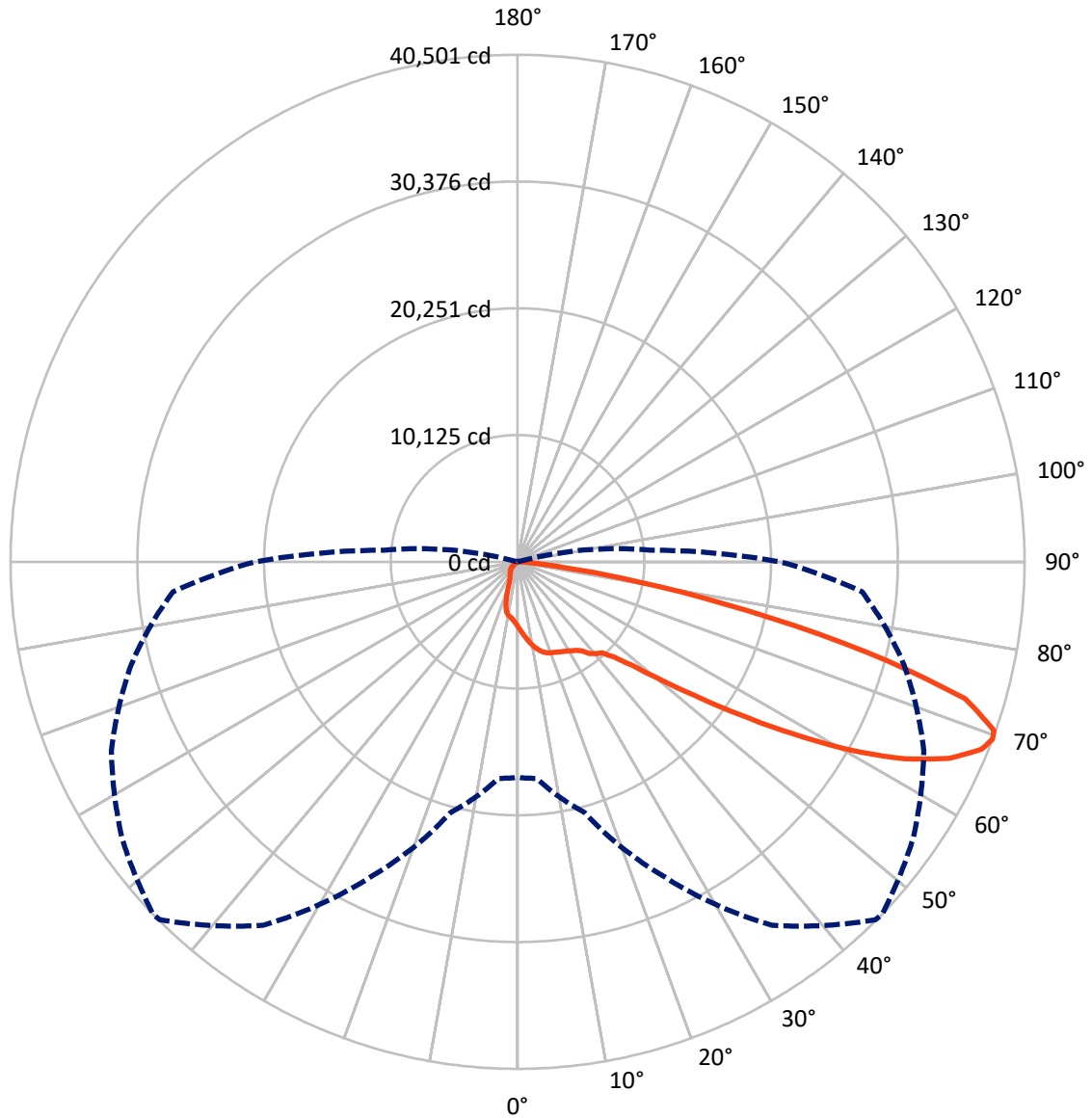
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P382708  
CATALOG NUMBER: GLEON-SA0D-735-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P382708  
 CATALOG NUMBER: GLEON-SA0D-735-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5321.5	0.0	5321.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	46531.2	0.0	46531.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	51852.7	0.0	51852.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.1	1.0
10°-20°	1568.8	3.0
20°-30°	2467.3	4.8
30°-40°	3538.1	6.8
40°-50°	6115.1	11.8
50°-60°	12081.0	23.3
60°-70°	16884.2	32.6
70°-80°	8156.9	15.7
80°-90°	524.3	1.0
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°	51852.7	100.0
0°-180°	51852.7	100.0

**Coefficient of Utilization**

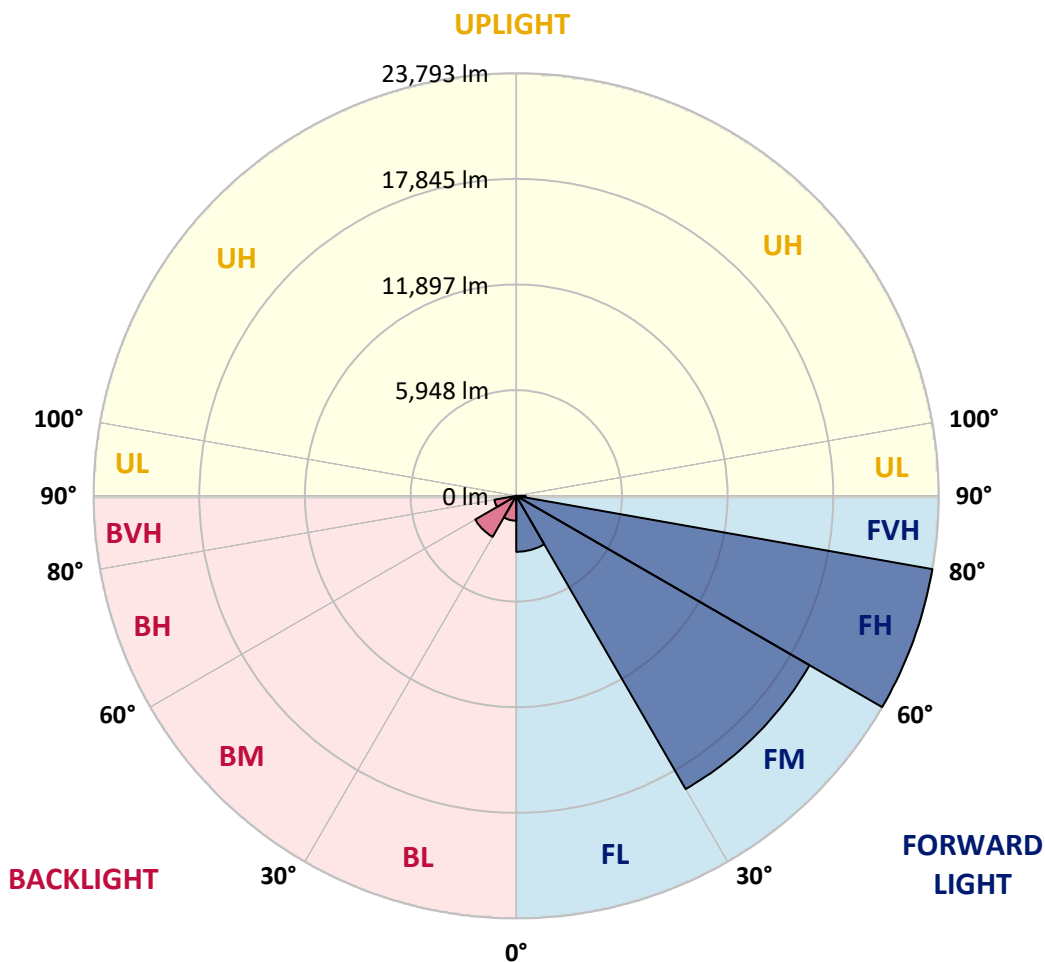


REPORT NUMBER: P382708  
 CATALOG NUMBER: GLEON-SA0D-735-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3150.7	6.1			
FM (30°-60°)	19067.4	36.8			
FH (60°-80°)	23793.3	45.9			G5
FVH (80°-90°)	519.9	1.0			G4/750
BL (0°-30°)	1402.6	2.7	B3/2500		
BM (30°-60°)	2666.7	5.1	B3/5000		
BH (60°-80°)	1247.8	2.4	B3/2500		G3/2500
BVH (80°-90°)	4.4	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 IV Short





REPORT NUMBER: P382708

CATALOG NUMBER: GLEON-SA0D-735-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4
2.5°	5771.7	5764.3	5730.3	5715.7	5633.1	5584.4	5565.0	5504.2	5416.7	5329.2	5231.9
5°	6428.1	6425.6	6362.4	6301.6	6146.1	6000.2	5973.5	5832.4	5635.5	5450.8	5265.9
7.5°	7099.0	7067.5	7004.2	6887.6	6661.5	6428.1	6406.2	6206.8	5927.3	5659.8	5394.8
10°	7667.9	7648.6	7565.8	7388.4	7123.4	6858.4	6831.6	6586.1	6270.1	5941.8	5603.9
12.5°	8110.4	8095.9	7986.4	7765.2	7483.2	7208.5	7172.0	6953.2	6615.3	6248.2	5849.5
15°	8380.3	8373.0	8239.3	8003.5	7726.3	7488.1	7456.5	7264.4	6950.7	6566.7	6116.9
17.5°	8443.5	8446.0	8307.4	8069.2	7840.6	7670.4	7646.0	7500.3	7237.7	6855.9	6384.3
20°	8302.5	8331.7	8207.7	8001.1	7860.0	7770.0	7750.7	7663.1	7441.9	7082.1	6598.2
22.5°	8103.2	8117.8	8032.6	7894.0	7835.7	7852.8	7843.0	7794.4	7607.2	7276.5	6809.8
25°	7981.6	7981.6	7930.5	7813.8	7852.8	7957.3	7959.7	7950.0	7801.7	7514.8	7067.5
27.5°	7976.7	7962.1	7903.8	7816.2	7923.3	8083.7	8093.5	8159.1	8066.6	7804.1	7388.4
30°	8171.3	8154.2	8030.2	7915.9	8052.1	8224.7	8249.0	8392.5	8346.3	8117.8	7745.7
32.5°	8625.9	8565.1	8290.3	8103.2	8205.3	8411.9	8443.5	8672.1	8745.0	8504.3	8091.0
35°	9248.2	9056.1	8659.9	8458.1	8467.9	8684.2	8713.4	9048.9	9265.3	8859.3	8358.4
37.5°	10106.5	10011.6	9367.4	8827.6	8871.4	9199.6	9284.7	9649.3	9588.6	9053.7	8662.4
40°	11988.2	11839.9	11154.3	9863.3	9258.0	9617.8	9644.5	9839.0	9843.8	9493.8	9294.4
42.5°	14550.7	14489.9	13767.8	11742.6	10018.9	9897.4	9945.9	10274.2	10641.3	10422.5	10412.7
45°	17387.9	17356.2	16590.4	14237.0	11557.9	10814.0	10874.7	11314.8	12017.3	12066.0	12374.8
47.5°	19670.7	19656.1	19216.2	17020.8	13913.7	12367.4	12386.9	12853.7	14088.7	14699.0	15192.5
50°	21751.8	21822.3	21474.7	20033.0	17122.9	14801.1	14754.9	15066.1	17049.9	18049.1	18661.8
52.5°	24644.9	24744.6	23769.7	22843.4	20490.0	17820.6	17784.2	18109.9	20609.2	21358.0	21467.4
55°	27200.2	27030.0	26259.3	25991.9	24596.3	21550.0	21540.4	21827.2	24051.7	24370.2	24572.0
57.5°	28328.2	28262.6	28634.6	29247.2	28897.1	25957.8	25936.0	25717.1	27132.1	27166.1	27786.0
60°	29040.5	29120.7	30261.0	32150.0	33022.8	30701.0	30560.1	29225.3	30073.8	29998.4	30662.2
62.5°	28505.7	28663.7	30715.6	33864.0	36110.4	34841.4	34642.0	32439.4	32587.7	32327.5	32945.0
65°	25666.1	25911.6	29274.0	33540.7	37642.1	38077.3	37875.5	35276.6	34583.7	34155.8	33812.9
67.5°	20840.1	20986.0	24496.6	30727.7	36951.6	40007.6	39966.3	37763.6	36091.0	33847.0	31187.3
69°	17222.5	17366.0	20745.4	27766.6	35432.2	40421.0	40501.2	38561.0	35804.1	31970.2	27632.9
70°	14587.1	14740.3	17888.7	25228.5	33669.6	40228.9	40372.3	38485.7	34982.4	29796.7	24513.7
72.5°	7651.0	7782.2	11013.3	17380.5	27448.1	36939.5	37374.6	35232.8	29653.2	21640.0	14494.8
75°	2404.4	2479.8	4300.8	9085.4	18793.1	28722.0	28821.7	27637.7	21056.5	11903.1	6036.6
77.5°	916.5	894.7	1432.0	3347.7	9501.0	18085.6	18695.9	17271.2	11049.7	4208.4	1393.0
80°	493.5	496.0	743.9	1385.8	4064.9	9294.4	9809.8	8370.6	3926.4	1312.8	320.9
82.5°	214.0	223.7	418.2	734.2	1867.2	3428.0	3685.7	3068.1	1500.1	882.5	119.1
85°	46.2	51.0	201.8	398.7	761.0	962.8	1009.0	994.3	955.5	685.6	46.2
87.5°	0.0	0.0	90.0	143.5	192.1	218.8	192.1	250.4	527.5	462.0	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382708

CATALOG NUMBER: GLEON-SA0D-735-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4	5195.4
2.5°	5200.3	5156.6	5081.2	4998.5	4940.2	4879.4	4830.7	4808.9	4784.6	4767.6	4789.5
5°	5190.6	5105.5	4959.7	4818.6	4716.5	4633.9	4565.8	4539.1	4512.3	4492.9	4490.4
7.5°	5275.6	5156.6	4932.9	4726.2	4568.2	4456.3	4364.0	4325.1	4293.5	4278.9	4266.8
10°	5438.6	5285.4	4986.4	4716.5	4512.3	4322.7	4123.3	3970.2	3870.5	3824.3	3807.2
12.5°	5650.1	5458.0	5088.5	4767.6	4471.0	4106.3	3683.2	3318.5	3082.8	3005.0	2958.8
15°	5898.1	5659.8	5222.2	4833.2	4320.2	3654.1	2936.9	2460.4	2241.6	2197.8	2149.2
17.5°	6136.3	5873.8	5382.7	4845.4	3989.5	2919.8	2151.6	1828.3	1743.2	1772.4	1779.6
20°	6345.4	6085.2	5540.7	4738.4	3389.1	2190.5	1665.3	1585.1	1616.7	1672.7	1682.4
22.5°	6556.9	6289.5	5686.5	4456.3	2620.8	1662.9	1500.1	1519.4	1551.1	1607.0	1616.7
25°	6814.6	6537.5	5822.7	3938.5	1966.9	1414.9	1424.7	1453.9	1485.4	1536.5	1541.3
27.5°	7111.2	6851.1	5912.6	3265.1	1458.7	1300.7	1332.3	1376.1	1407.7	1456.3	1466.0
30°	7505.1	7264.4	5941.8	2567.3	1222.8	1198.6	1213.2	1266.6	1312.8	1356.6	1363.9
32.5°	7874.7	7672.8	5844.6	1937.6	1132.9	1103.8	1103.8	1135.4	1188.8	1230.2	1239.9
35°	8214.9	8083.7	5533.4	1417.3	1064.9	1016.2	991.9	991.9	1026.0	1060.0	1069.7
37.5°	8664.8	8659.9	5030.2	1130.5	999.2	943.3	892.2	853.4	841.2	848.5	853.4
40°	9435.5	9442.7	4373.7	1013.8	943.3	867.9	790.1	719.6	653.9	632.1	629.6
42.5°	10638.9	10529.5	3685.7	957.9	894.7	790.1	673.4	578.6	476.5	444.9	442.5
45°	12549.8	11900.7	2956.4	906.9	843.6	702.6	556.8	427.9	345.2	320.9	320.9
47.5°	15333.6	13702.1	2290.2	850.9	775.5	602.9	420.6	308.7	252.8	240.7	243.1
50°	18212.0	15467.2	1755.3	780.5	692.9	498.4	311.2	223.7	192.1	192.1	194.5
52.5°	20764.8	16760.6	1368.7	705.1	590.8	391.4	235.9	175.0	160.4	158.0	160.4
55°	23154.6	17594.5	1047.8	617.5	469.2	291.8	179.9	143.5	133.7	128.8	126.4
57.5°	25459.4	18007.8	785.3	498.4	340.4	211.6	143.5	121.6	111.9	104.5	102.1
60°	26993.5	17672.3	539.7	367.1	235.9	153.1	119.1	104.5	92.4	85.1	82.6
62.5°	27859.0	16755.7	347.7	265.0	167.8	114.3	94.8	87.6	70.5	63.3	63.3
65°	27508.9	15243.6	243.1	189.7	121.6	85.1	70.5	70.5	51.0	41.4	38.9
67.5°	24377.5	12878.0	184.7	141.0	87.6	63.3	53.5	60.7	31.6	19.5	19.5
69°	20973.9	10672.9	158.0	116.7	72.9	51.0	46.2	55.9	21.9	14.6	12.1
70°	18229.1	9207.0	143.5	102.1	60.7	43.8	41.4	53.5	21.9	12.1	9.7
72.5°	10906.3	5134.7	109.4	72.9	38.9	34.0	34.0	60.7	21.9	12.1	9.7
75°	4407.7	1808.8	80.2	51.0	29.2	29.2	41.4	77.8	19.5	9.7	7.3
77.5°	999.2	396.3	46.2	31.6	19.5	29.2	48.6	60.7	12.1	4.8	0.0
80°	243.1	97.3	29.2	19.5	12.1	21.9	36.4	34.0	2.4	0.0	0.0
82.5°	80.2	34.0	12.1	9.7	2.4	7.3	17.0	9.7	0.0	0.0	0.0
85°	34.0	19.5	4.8	2.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0
87.5°	21.9	7.3	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)