

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: P383668

Luminaire Tested: **GLEON-SA9C-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9C-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48790.7 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

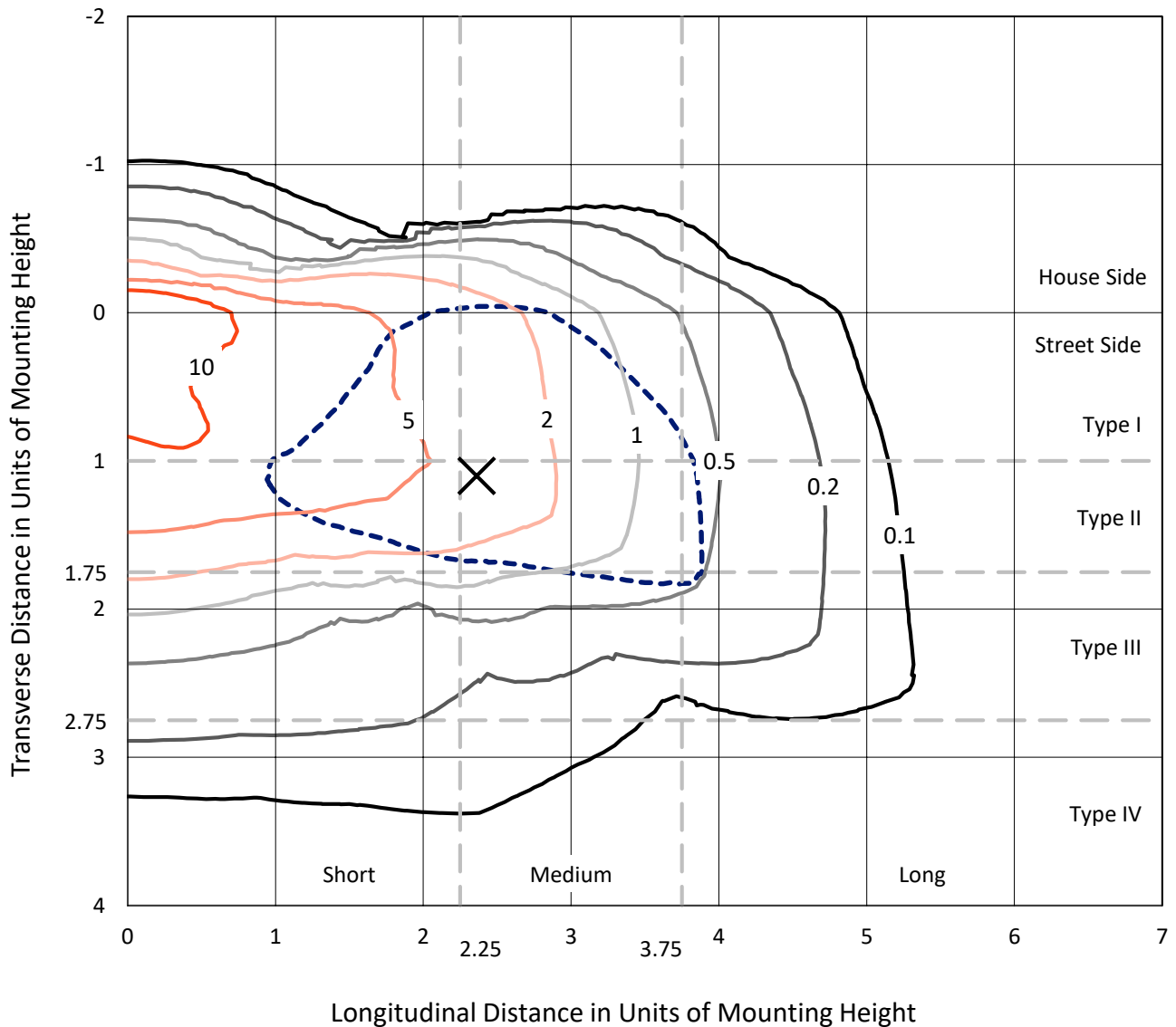
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383668  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

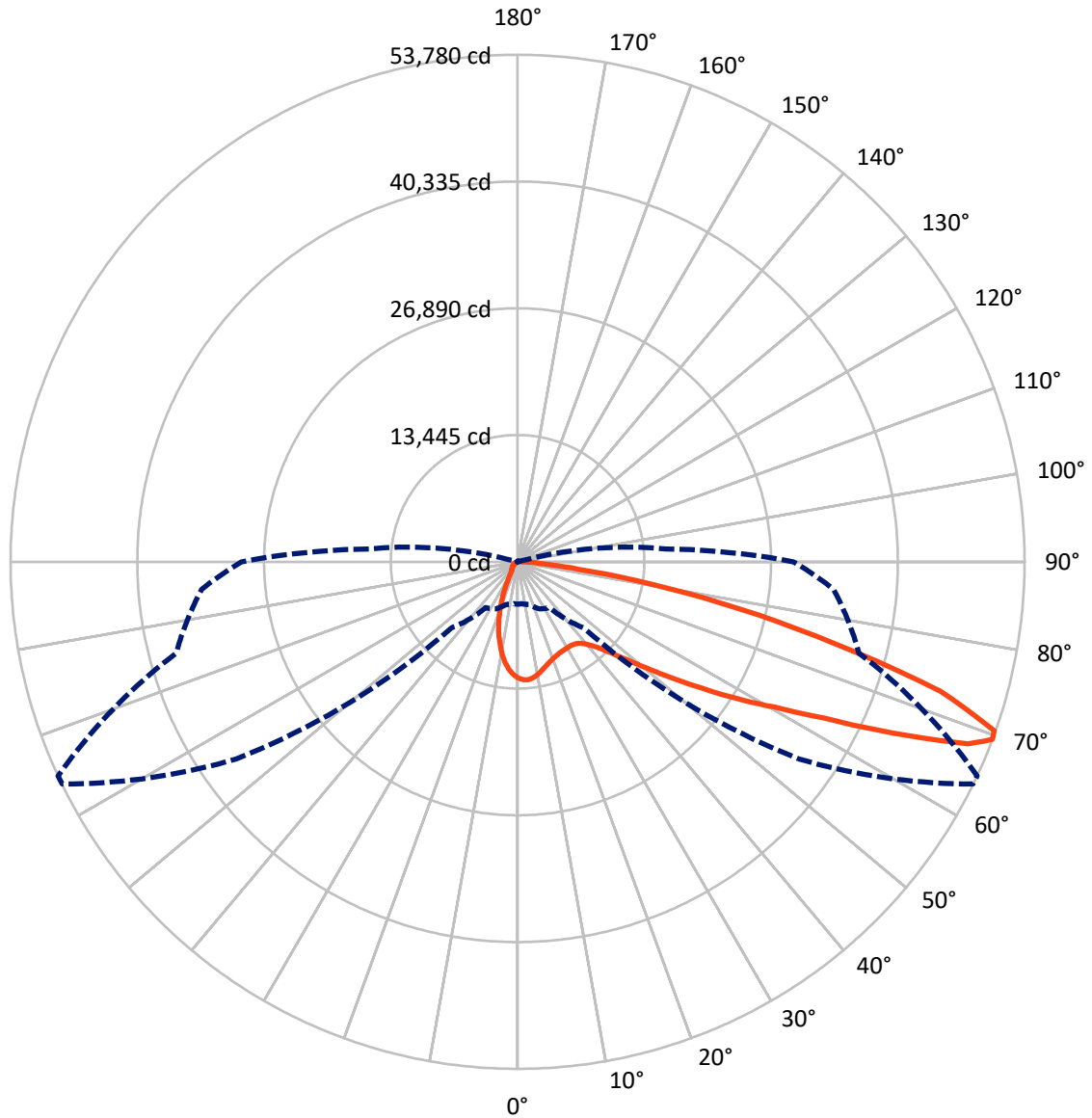
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P383668  
CATALOG NUMBER: GLEON-SA9C-735-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P383668  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5751.2	0.0	5751.2
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	43039.4	0.0	43039.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	48790.7	0.0	48790.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1031.0	2.1
10°-20°	2256.9	4.6
20°-30°	3125.9	6.4
30°-40°	4358.5	8.9
40°-50°	6774.5	13.9
50°-60°	10875.8	22.3
60°-70°	12302.3	25.2
70°-80°	7225.3	14.8
80°-90°	840.5	1.7
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°	48790.7	100.0
0°-180°	48790.7	100.0

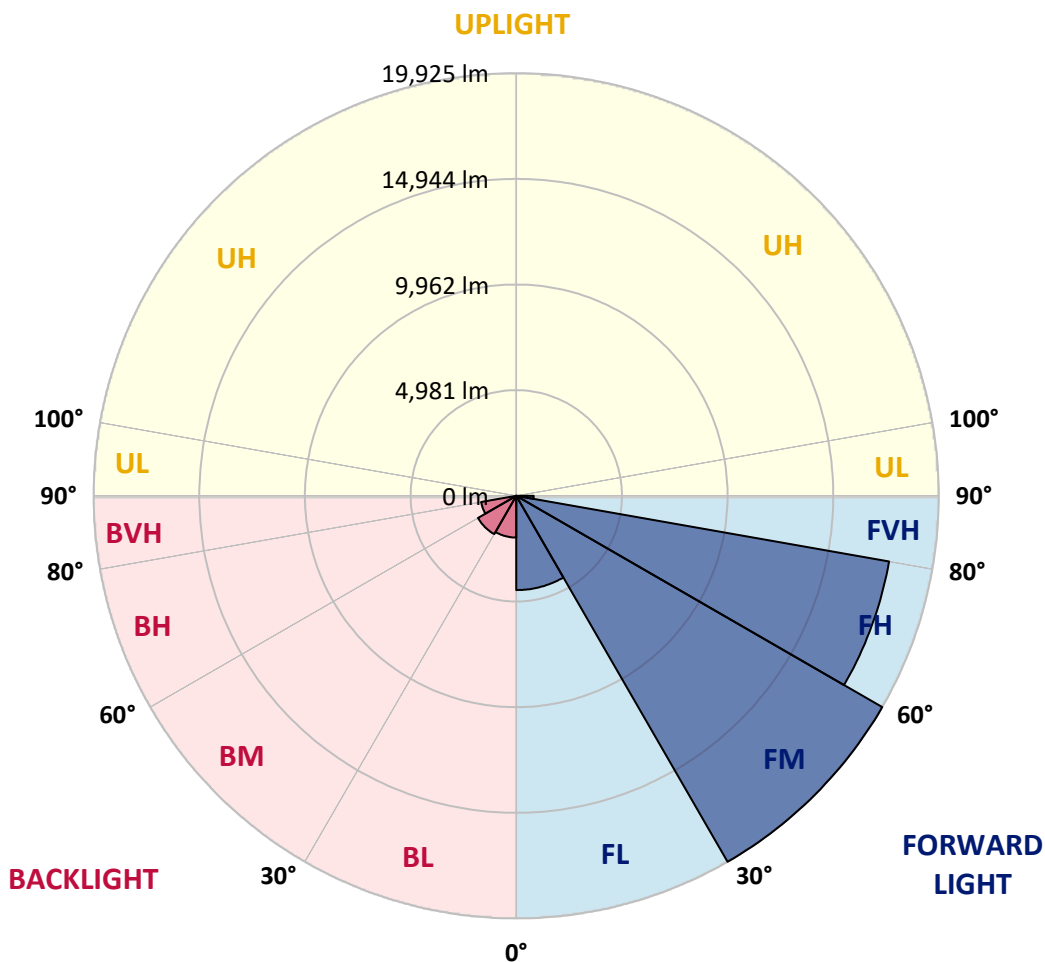


REPORT NUMBER: P383668  
 CATALOG NUMBER: GLEON-SA9C-735-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4446.0	9.1			
FM (30°-60°)	19924.7	40.8			
FH (60°-80°)	17847.2	36.6			G5
FVH (80°-90°)	821.6	1.7			G5
BL (0°-30°)	1967.8	4.0	B3/2500		
BM (30°-60°)	2084.1	4.3	B2/2500		
BH (60°-80°)	1680.4	3.4	B3/2500		G3/2500
BVH (80°-90°)	18.9	0.0			G1/100
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 Medium





REPORT NUMBER: P383668

CATALOG NUMBER: GLEON-SA9C-735-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5
2.5°	12439.0	12407.9	12432.7	12486.4	12513.3	12513.3	12533.9	12509.1	12517.4	12457.5	12370.8
5°	11660.6	11613.1	11681.2	11832.0	12017.8	12176.7	12412.1	12535.9	12548.3	12550.4	12449.3
7.5°	10822.3	10779.0	10880.2	11057.7	11297.3	11592.5	12003.3	12362.6	12383.2	12577.3	12503.0
10°	10141.1	10110.1	10227.8	10417.7	10698.5	11028.9	11532.6	12032.2	12092.0	12521.5	12494.7
12.5°	9600.2	9575.4	9686.9	9905.7	10192.7	10558.2	11084.6	11664.7	11745.2	12395.5	12453.4
15°	9205.8	9201.7	9294.6	9505.2	9823.2	10163.7	10702.6	11324.1	11417.0	12259.4	12447.2
17.5°	8999.4	9005.6	9073.7	9253.3	9525.8	9864.4	10380.6	11037.1	11138.2	12137.5	12478.2
20°	8978.7	8985.0	9022.1	9123.3	9344.2	9643.6	10118.4	10795.5	10900.9	12046.7	12527.7
22.5°	9160.4	9156.3	9166.6	9156.3	9280.2	9507.3	9944.9	10609.8	10731.5	11986.8	12566.9
25°	9509.3	9503.1	9499.0	9422.6	9340.1	9461.8	9872.7	10504.4	10620.0	11943.5	12589.7
27.5°	9994.5	9990.4	9984.1	9858.2	9610.5	9534.1	9880.9	10465.2	10562.3	11908.3	12585.5
30°	10632.4	10661.4	10653.1	10477.6	10091.5	9755.0	9967.7	10444.6	10529.2	11840.2	12542.2
32.5°	11381.8	11439.7	11485.1	11297.3	10814.1	10192.7	10167.9	10467.2	10529.2	11788.5	12463.7
35°	12160.2	12234.6	12401.8	12335.7	11699.8	10851.3	10512.7	10603.5	10655.1	11817.5	12426.6
37.5°	12926.2	13014.9	13378.3	13570.3	12860.1	11722.5	11049.5	10940.1	10966.9	11993.0	12467.8
40°	13816.0	13950.2	14501.4	14811.1	14245.4	12889.0	11852.6	11518.1	11528.5	12379.1	12659.8
42.5°	14984.5	15122.8	15719.5	16204.6	15806.2	14363.1	12942.6	12401.8	12391.4	13101.7	13112.0
45°	16409.0	16553.6	17170.8	17709.7	17530.1	16109.7	14338.3	13692.1	13679.7	14241.3	13968.7
47.5°	18023.6	18166.0	18717.2	19272.6	19466.6	18149.4	16115.9	15453.2	15424.3	15824.8	15292.1
50°	19408.9	19501.8	20009.6	20757.0	21632.4	20655.9	18327.0	17689.1	17658.1	17928.6	17234.8
52.5°	19912.6	19966.3	20482.4	21529.2	23713.5	24050.0	21231.8	20410.2	20387.5	20505.1	19821.7
55°	18892.7	18989.8	19623.6	21176.1	24840.6	27885.9	24898.5	23779.5	23608.1	23354.2	22526.3
57.5°	16113.8	16268.6	16950.0	19014.6	24314.2	30929.1	30286.9	27590.7	27338.8	25786.3	24725.0
60°	12073.5	12263.5	12829.1	15056.8	21504.4	32012.9	36175.1	31837.5	31269.7	27722.8	26746.3
62.5°	8285.1	8380.0	8764.0	10215.4	15837.1	30237.4	41101.1	37525.3	36488.9	29828.6	28932.7
65°	6327.8	6360.9	6517.8	7017.4	9430.9	24561.9	43060.3	45030.0	43776.8	32347.4	31201.5
67.5°	5099.5	5072.6	5289.4	6003.7	6315.4	14984.5	40774.9	52130.0	51543.6	35714.7	33484.9
69°	4496.6	4459.4	4680.4	5510.3	5931.4	9905.7	36451.7	53742.4	53779.5	37492.3	33641.9
70°	4046.5	4071.3	4290.1	5217.1	5801.4	7775.1	32322.7	53331.5	53624.6	38157.0	32700.4
72.5°	2702.5	2768.6	3208.3	4331.4	5578.4	5883.9	19516.2	45764.9	46892.1	36660.2	28055.2
75°	1523.6	1573.2	2095.5	3266.1	5256.4	5603.2	10308.3	33716.2	34806.3	30656.6	21634.4
77.5°	747.4	774.2	1185.0	2107.9	4395.4	5338.9	5846.8	22902.1	24147.0	20009.6	12236.6
80°	315.9	330.3	592.6	1300.6	3142.2	5095.3	4341.8	14094.7	14249.5	7839.1	3260.0
82.5°	121.8	125.9	249.8	811.4	1996.4	3972.2	3631.5	6682.9	6522.0	1476.1	743.3
85°	14.4	16.5	90.8	487.2	1110.7	2043.9	2950.2	2880.1	2665.3	293.2	381.9
87.5°	0.0	0.0	6.1	148.7	330.3	957.9	1534.0	1195.4	1077.7	94.9	198.2
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: P383668

CATALOG NUMBER: GLEON-SA9C-735-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5	12329.5
2.5°	12298.6	12277.9	12166.4	12005.4	11852.6	11662.7	11481.0	11371.6	11284.9	11227.0	11295.2
5°	12331.5	12240.7	11902.1	11468.6	11043.3	10564.3	10118.4	9740.5	9591.9	9426.7	9501.0
7.5°	12321.2	12149.9	11540.9	10768.7	9988.3	9181.1	8417.2	7828.8	7523.3	7223.9	7300.3
10°	12269.6	11980.6	11057.7	9914.0	8745.5	7585.1	6501.3	5677.5	5217.1	4800.1	4860.0
12.5°	12156.0	11753.5	10487.9	8935.4	7372.5	5842.7	4573.0	3518.0	2952.4	2702.5	2733.4
15°	12087.9	11532.6	9885.1	7944.4	5906.7	4069.2	2795.4	2079.0	1820.9	1738.4	1748.7
17.5°	12054.9	11320.0	9261.5	6810.9	4407.8	2591.0	1806.5	1593.9	1538.1	1523.6	1527.7
20°	12021.9	11105.3	8619.5	5689.9	3036.9	1742.5	1484.4	1422.5	1401.8	1383.3	1387.4
22.5°	11966.1	10898.7	7930.0	4554.4	2048.0	1414.2	1337.8	1278.0	1234.6	1211.9	1216.0
25°	11898.0	10682.0	7225.9	3392.0	1494.8	1261.4	1189.2	1104.5	1052.9	1011.7	1013.7
27.5°	11788.5	10415.6	6499.2	2469.2	1255.3	1129.3	1032.2	939.4	852.6	805.1	805.1
30°	11635.8	10114.3	5691.9	1767.2	1125.2	999.3	881.5	765.9	673.0	629.7	625.5
32.5°	11466.5	9800.4	4876.5	1339.9	1021.9	877.4	743.3	621.4	538.8	503.8	501.7
35°	11322.0	9461.8	4063.0	1123.1	918.7	759.8	613.1	509.9	443.9	415.0	413.0
37.5°	11229.1	9123.3	3270.3	1003.4	825.8	650.3	514.0	421.2	373.6	351.0	348.9
40°	11214.6	8871.4	2545.5	912.5	739.1	553.3	429.4	357.2	313.8	289.1	287.0
42.5°	11402.5	8726.8	1953.1	836.2	650.3	468.7	365.4	305.5	260.1	235.4	233.3
45°	11896.0	8772.3	1503.0	768.0	561.5	396.4	309.6	253.9	212.7	194.0	189.9
47.5°	12796.1	9086.1	1195.4	699.9	477.0	336.6	264.3	210.6	175.5	156.9	154.8
50°	14398.2	9823.2	999.3	625.5	398.4	287.0	218.8	171.3	142.4	125.9	123.9
52.5°	16524.6	11136.2	891.9	553.3	330.3	243.6	179.6	136.3	111.5	99.1	97.1
55°	18870.0	12725.9	821.7	474.8	270.4	202.3	142.4	107.3	86.7	76.4	72.3
57.5°	21159.6	14103.0	755.7	398.4	225.1	165.2	113.6	84.7	68.1	57.8	55.7
60°	23263.4	15368.5	679.2	320.0	183.7	130.0	88.8	66.0	53.7	43.3	43.3
62.5°	25515.8	16347.1	573.9	249.8	150.7	99.1	72.3	59.9	43.3	37.2	35.1
65°	27902.5	17073.9	450.0	194.0	117.7	74.3	59.9	61.9	35.1	26.8	24.8
67.5°	29665.5	16929.3	332.4	152.8	90.8	57.8	57.8	66.0	30.9	20.7	18.5
69°	29277.4	15754.6	278.7	132.1	78.4	49.6	53.7	66.0	28.9	18.5	16.5
70°	28152.2	14453.9	245.6	117.7	70.2	45.5	51.6	64.0	26.8	18.5	16.5
72.5°	23445.1	10886.3	192.0	88.8	55.7	37.2	43.3	55.7	26.8	18.5	14.4
75°	17635.4	6967.9	146.6	64.0	41.3	28.9	33.1	41.3	26.8	16.5	14.4
77.5°	9596.1	2512.6	105.3	43.3	28.9	22.7	22.7	30.9	24.8	12.4	8.3
80°	2467.1	631.8	66.0	28.9	22.7	16.5	14.4	20.7	14.4	2.0	0.0
82.5°	609.0	142.4	35.1	20.7	16.5	6.1	6.1	10.3	6.1	0.0	0.0
85°	334.4	70.2	22.7	14.4	8.3	0.0	0.0	2.0	0.0	0.0	0.0
87.5°	171.3	20.7	6.1	4.1	2.0	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)