

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: P383570

Luminaire Tested: **GLEON-SA8C-735-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383570  
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-SA8C-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 38481.3 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

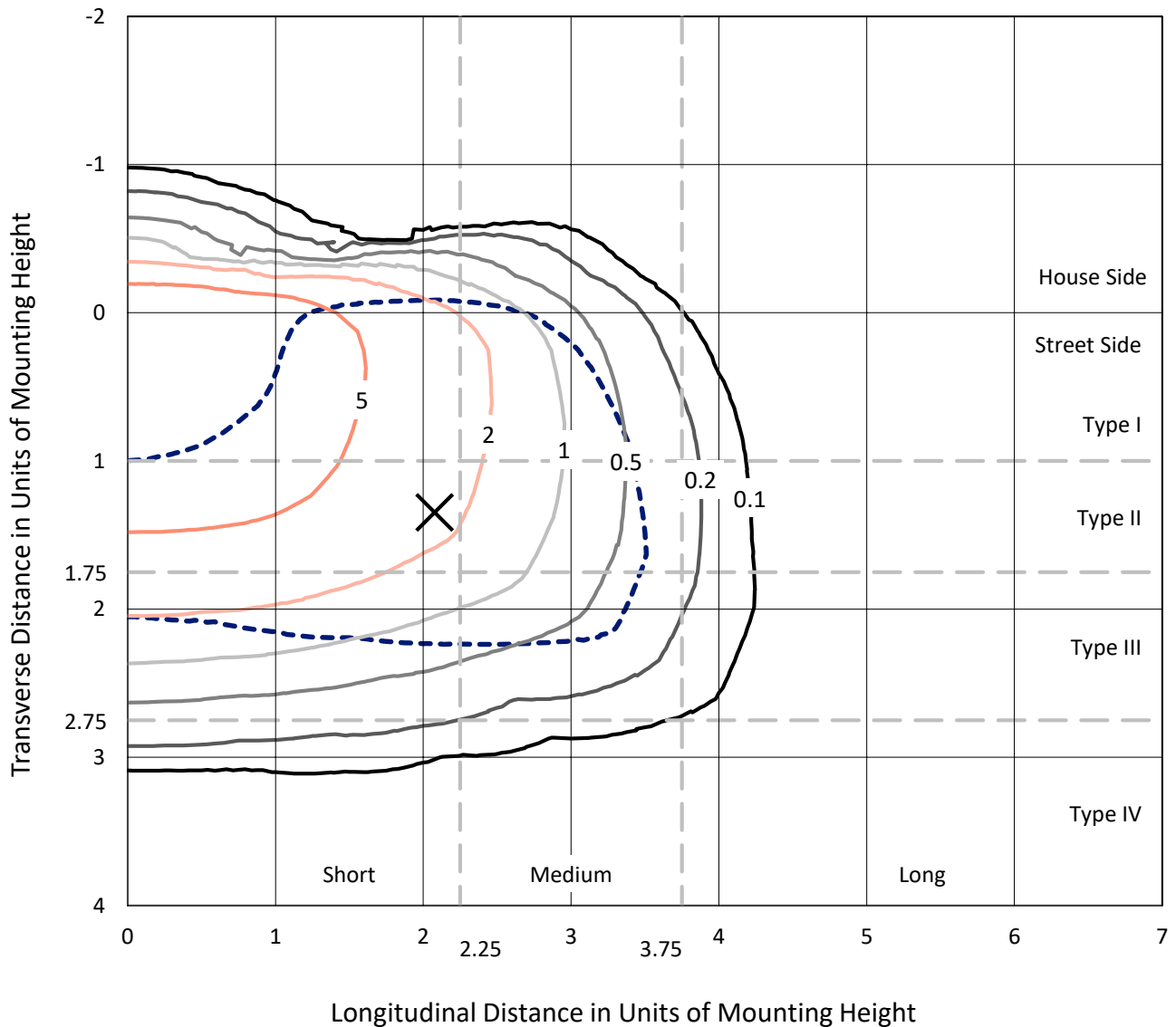
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

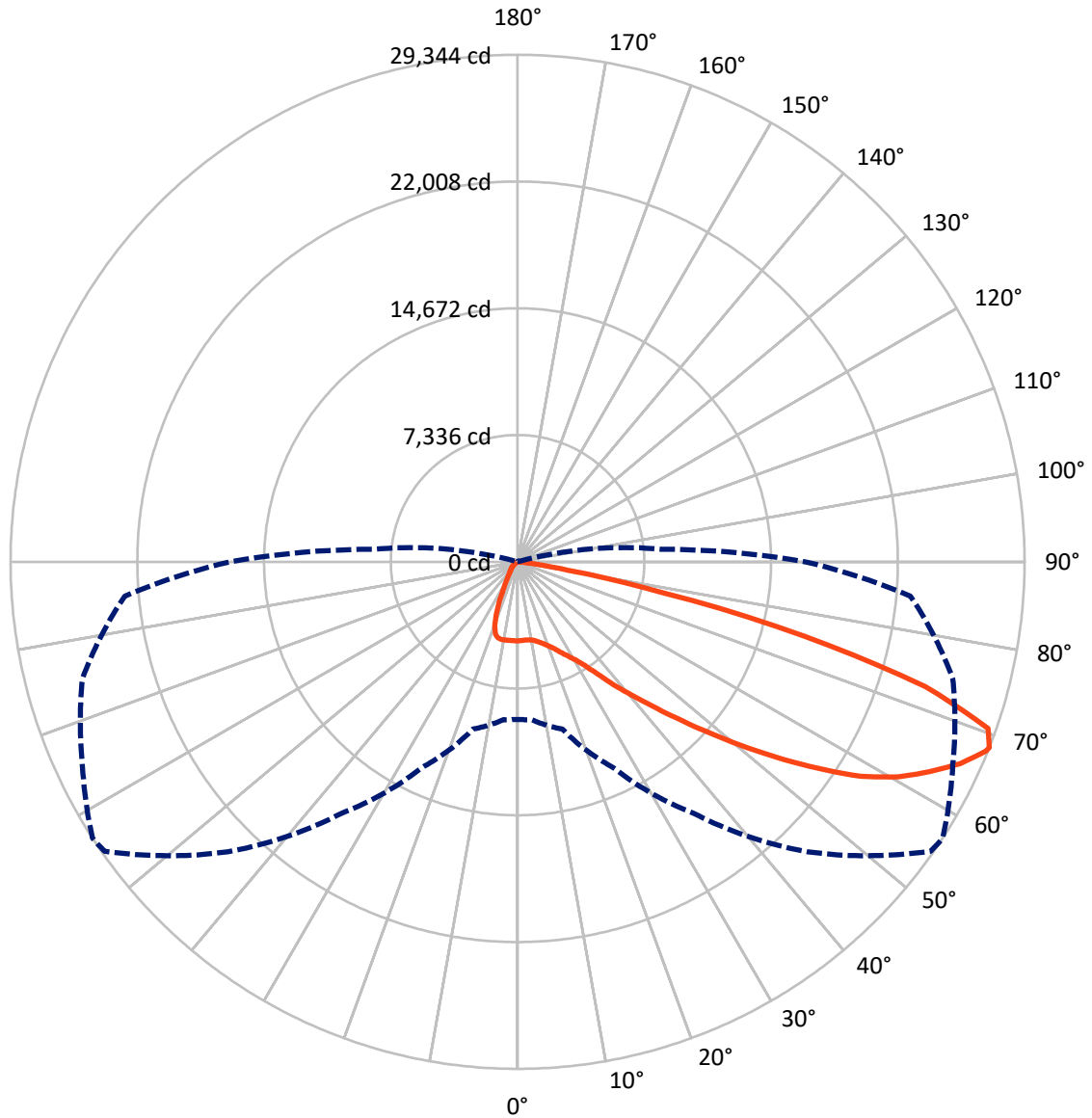
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4219.7	0.0	4219.7
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	34261.6	0.0	34261.6
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	38481.3	0.0	38481.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.9	1.1
10°-20°	1185.8	3.1
20°-30°	2045.7	5.3
30°-40°	3530.7	9.2
40°-50°	6039.3	15.7
50°-60°	9662.3	25.1
60°-70°	11163.8	29.0
70°-80°	4265.8	11.1
80°-90°	159.9	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°	38481.3	100.0
0°-180°	38481.3	100.0

**Coefficient of Utilization**



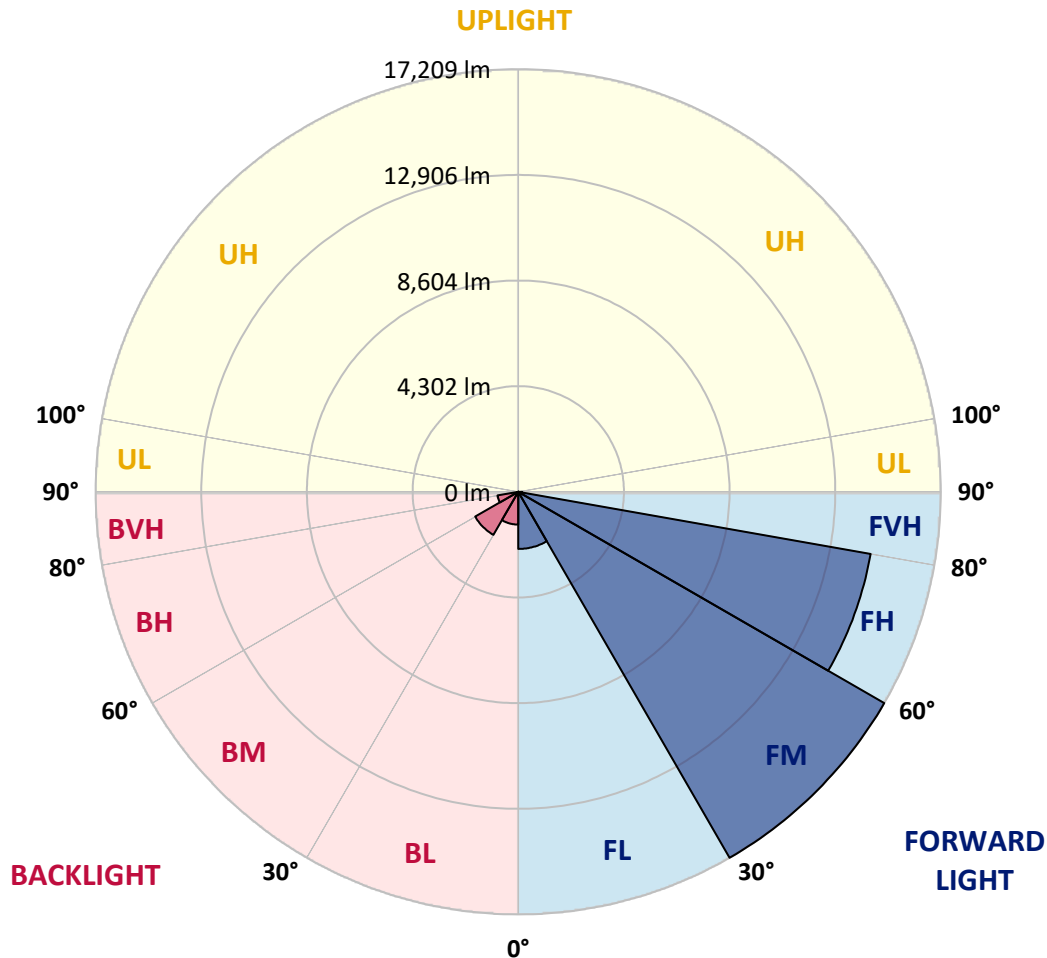
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 CATALOG NUMBER: GLEON-SA8C-735-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2325.8	6.0			
FM (30°-60°)	17208.5	44.7			
FH (60°-80°)	14570.3	37.9			G5
FVH (80°-90°)	157.0	0.4			G2/225
BL (0°-30°)	1333.6	3.5	B3/2500		
BM (30°-60°)	2023.8	5.3	B2/2500		
BH (60°-80°)	859.4	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6
2.5°	4465.3	4485.2	4499.8	4508.9	4519.9	4543.4	4550.8	4561.7	4567.1	4567.1	4579.9
5°	4288.8	4310.6	4341.5	4367.0	4418.0	4483.4	4530.8	4548.9	4581.7	4610.8	4627.2
7.5°	4125.0	4150.4	4186.8	4246.9	4334.2	4439.8	4538.0	4563.5	4627.2	4689.0	4720.0
10°	4019.4	4039.5	4086.8	4172.3	4286.9	4434.3	4572.6	4603.5	4712.7	4816.4	4874.6
12.5°	3983.0	4001.3	4050.4	4146.8	4288.8	4461.6	4652.6	4698.2	4858.3	5009.3	5091.2
15°	4035.8	4039.5	4092.2	4183.2	4323.3	4528.9	4785.5	4840.0	5042.0	5238.6	5340.5
17.5°	4239.6	4223.3	4250.6	4290.5	4401.6	4618.1	4925.6	5007.4	5276.8	5507.9	5604.3
20°	4749.1	4749.1	4687.3	4578.1	4579.9	4756.4	5114.8	5207.6	5536.9	5804.5	5891.8
22.5°	5620.7	5604.3	5480.6	5213.1	4967.5	4994.8	5345.9	5466.0	5849.9	6135.6	6164.7
25°	6668.8	6648.7	6457.7	6081.0	5655.2	5380.5	5658.9	5797.2	6222.9	6475.8	6415.8
27.5°	7778.7	7762.3	7573.1	7105.5	6499.5	5995.5	6031.9	6162.9	6603.3	6852.6	6661.5
30°	8854.1	8859.5	8672.1	8191.8	7505.8	6779.7	6505.0	6581.4	6972.6	7225.5	6952.6
32.5°	9876.6	9883.9	9722.0	9185.2	8544.7	7691.3	7160.1	7140.0	7402.1	7651.4	7338.4
35°	10788.3	10806.4	10695.5	10278.8	9600.1	8706.7	8009.7	7962.5	8011.6	8293.7	7929.7
37.5°	11667.1	11678.1	11594.3	11243.1	10675.4	9822.1	9083.3	9016.0	8910.4	9127.0	8710.3
40°	12629.6	12602.3	12505.9	12187.5	11699.9	11053.9	10237.0	10120.5	9936.7	10129.6	9736.5
42.5°	13524.9	13493.9	13510.3	13150.1	12738.8	12320.4	11581.6	11381.5	11274.1	11496.0	10995.7
45°	14643.9	14627.5	14682.1	14369.2	14036.2	13732.3	13122.8	12904.4	12857.1	13117.3	12518.7
47.5°	15748.5	15788.4	15957.7	15824.9	15690.2	15422.7	14755.0	14656.7	14685.8	15000.6	14125.3
50°	16669.1	16716.4	17180.4	17333.3	17528.0	17371.5	16701.9	16641.8	16756.5	17040.3	15853.9
52.5°	17335.1	17431.5	18008.3	18712.6	19422.1	19527.7	18859.9	18805.3	18960.0	19003.7	17189.6
55°	17797.3	17882.8	18536.0	19824.3	21269.0	21723.9	21309.1	21098.0	21068.9	20637.6	18594.2
57.5°	17879.2	17870.1	18809.0	20543.0	22717.4	23891.0	23629.0	23421.5	22824.8	22147.9	20204.5
60°	17417.0	17469.8	18559.7	20792.3	23627.2	25530.5	25550.5	25281.2	24351.4	23616.3	21765.8
62.5°	15994.1	16208.7	17309.6	20139.0	23616.3	26190.9	26958.8	26753.2	25641.5	24819.0	23348.8
65°	13686.9	13763.2	14813.2	17901.0	22020.5	25914.4	28227.1	28150.6	26804.2	25987.2	24162.1
67.5°	9994.9	9829.3	10932.0	14096.3	18643.3	24302.2	29136.9	29233.3	27701.2	26227.4	23296.0
68°	9121.5	9170.6	10029.5	13155.5	17759.0	23732.8	29196.9	29344.3	27790.4	26070.9	22822.9
70°	5436.9	5531.5	6297.5	9057.8	13510.3	20510.3	28549.1	28885.8	27259.0	24456.9	19740.6
72.5°	1388.4	1501.2	2225.4	4054.0	7716.8	14451.1	24100.3	24669.8	23667.2	19840.7	13326.5
75°	571.3	600.5	795.2	1335.6	2874.9	6510.4	15884.9	17104.1	16407.1	11878.2	6022.8
77.5°	394.9	414.8	511.3	740.6	1244.5	2207.1	7787.7	8668.4	7809.6	4054.0	1313.8
80°	283.8	300.2	365.7	493.1	715.1	787.9	2538.3	2934.9	2330.9	889.8	325.7
82.5°	169.3	181.9	272.9	351.2	434.8	376.6	631.4	716.9	675.1	442.1	145.6
85°	83.7	98.3	183.8	251.1	234.7	158.3	192.8	214.7	265.7	269.3	78.2
87.5°	5.5	10.9	107.3	151.0	65.5	36.4	56.5	69.1	94.6	132.8	32.8
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°	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6	4572.6
2.5°	4585.4	4587.1	4574.5	4569.0	4572.6	4550.8	4541.7	4545.3	4545.3	4550.8	4541.7
5°	4630.8	4630.8	4609.0	4579.9	4563.5	4521.6	4494.3	4487.1	4481.6	4477.9	4470.7
7.5°	4729.1	4718.2	4679.9	4616.3	4561.7	4470.7	4401.6	4365.1	4347.0	4339.7	4334.2
10°	4887.4	4867.3	4803.7	4685.4	4559.8	4397.9	4246.9	4139.5	4050.4	4013.9	3992.1
12.5°	5100.3	5071.2	4963.8	4767.3	4547.2	4248.7	3921.2	3606.4	3313.4	3193.3	3133.4
15°	5345.9	5304.0	5134.9	4836.4	4472.5	3912.1	3200.6	2649.3	2243.5	2090.7	2025.2
17.5°	5595.2	5540.6	5284.0	4880.1	4248.7	3215.1	2245.4	1695.9	1424.7	1352.0	1326.4
20°	5846.3	5766.3	5413.2	4847.3	3742.9	2318.2	1481.2	1239.1	1160.9	1139.1	1131.7
22.5°	6084.7	5961.0	5529.7	4720.0	2964.1	1555.8	1171.8	1095.4	1069.9	1057.2	1053.6
25°	6292.1	6119.2	5631.6	4326.9	2097.9	1175.4	1055.4	1029.9	997.1	973.5	975.3
27.5°	6486.8	6277.5	5693.4	3679.1	1399.3	1004.4	977.1	942.5	882.5	847.9	847.9
30°	6721.5	6488.6	5739.0	2831.3	1029.9	888.0	866.2	813.3	731.5	686.0	686.0
32.5°	7074.5	6808.9	5709.8	1987.0	853.4	780.6	729.7	656.8	567.7	524.0	522.2
35°	7614.9	7303.8	5502.4	1302.9	753.3	678.7	596.8	507.7	429.4	393.0	391.2
37.5°	8342.8	7966.1	5036.6	931.6	675.1	584.1	485.8	387.5	329.3	305.7	303.9
40°	9287.2	8735.8	4370.6	755.1	602.2	493.1	374.9	300.2	260.2	242.0	243.8
42.5°	10420.7	9560.0	3571.8	651.4	531.4	405.8	293.0	236.5	211.1	198.3	194.7
45°	11679.8	10373.4	2734.8	580.4	460.4	327.5	229.3	187.4	167.4	160.1	160.1
47.5°	13064.6	11164.9	2001.5	518.6	383.9	252.9	183.8	152.9	136.5	131.0	129.2
50°	14321.9	11714.4	1443.0	453.1	314.8	200.2	149.2	127.3	116.4	109.2	109.2
52.5°	15370.0	11887.3	1062.6	382.1	254.8	160.1	123.7	109.2	98.3	92.8	92.8
55°	16292.5	11816.3	789.7	314.8	205.6	131.0	105.5	92.8	83.7	78.2	78.2
57.5°	17176.8	11587.1	589.6	256.5	165.5	105.5	89.1	78.2	69.1	65.5	65.5
60°	17899.1	11204.9	438.5	207.5	132.8	85.5	74.6	63.7	56.5	51.0	51.0
62.5°	18485.1	10782.8	322.0	171.0	105.5	67.4	58.2	52.7	41.8	36.4	36.4
65°	18488.7	10082.2	242.0	142.0	81.9	52.7	43.7	41.8	27.3	21.8	20.0
67.5°	17151.3	8692.1	185.6	121.9	63.7	40.1	32.8	34.6	14.5	9.1	7.3
68°	16665.5	8339.1	174.7	120.1	60.1	38.2	30.9	34.6	12.8	7.3	5.5
70°	14050.7	6634.2	140.1	116.4	52.7	29.2	25.4	34.6	10.9	5.5	3.6
72.5°	8986.9	3850.2	103.7	92.8	40.1	21.8	16.4	30.9	10.9	3.6	1.9
75°	3824.7	1193.7	71.0	65.5	23.7	16.4	10.9	20.0	7.3	1.9	0.0
77.5°	806.1	269.3	41.8	40.1	16.4	10.9	7.3	5.5	1.9	0.0	0.0
80°	207.5	78.2	21.8	20.0	9.1	5.5	3.6	0.0	0.0	0.0	0.0
82.5°	65.5	30.9	12.8	9.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.8	18.2	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	5.5	1.9	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)