

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: P382704

Luminaire Tested: **GLEON-SA0D-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
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-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55022.8 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

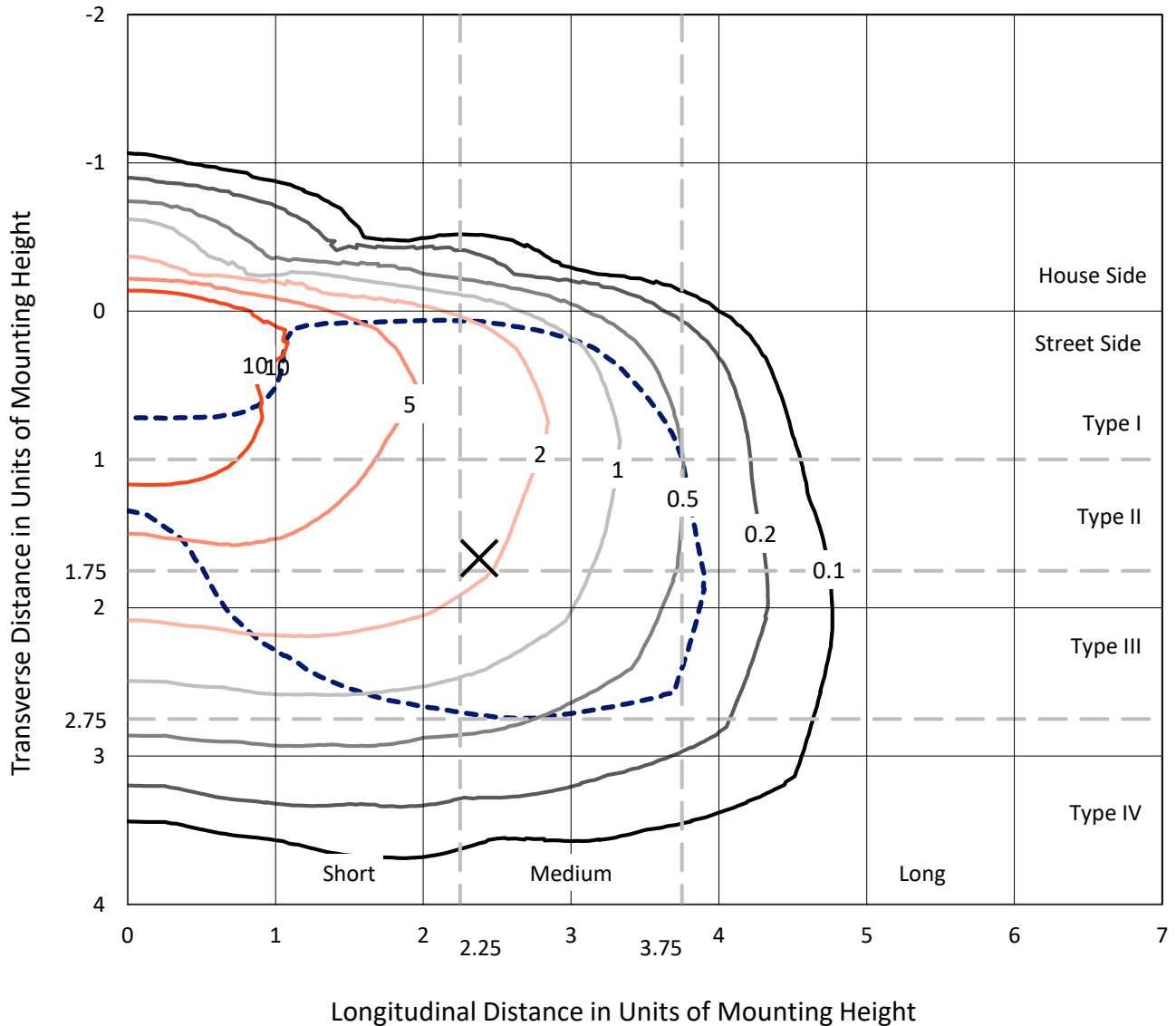
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

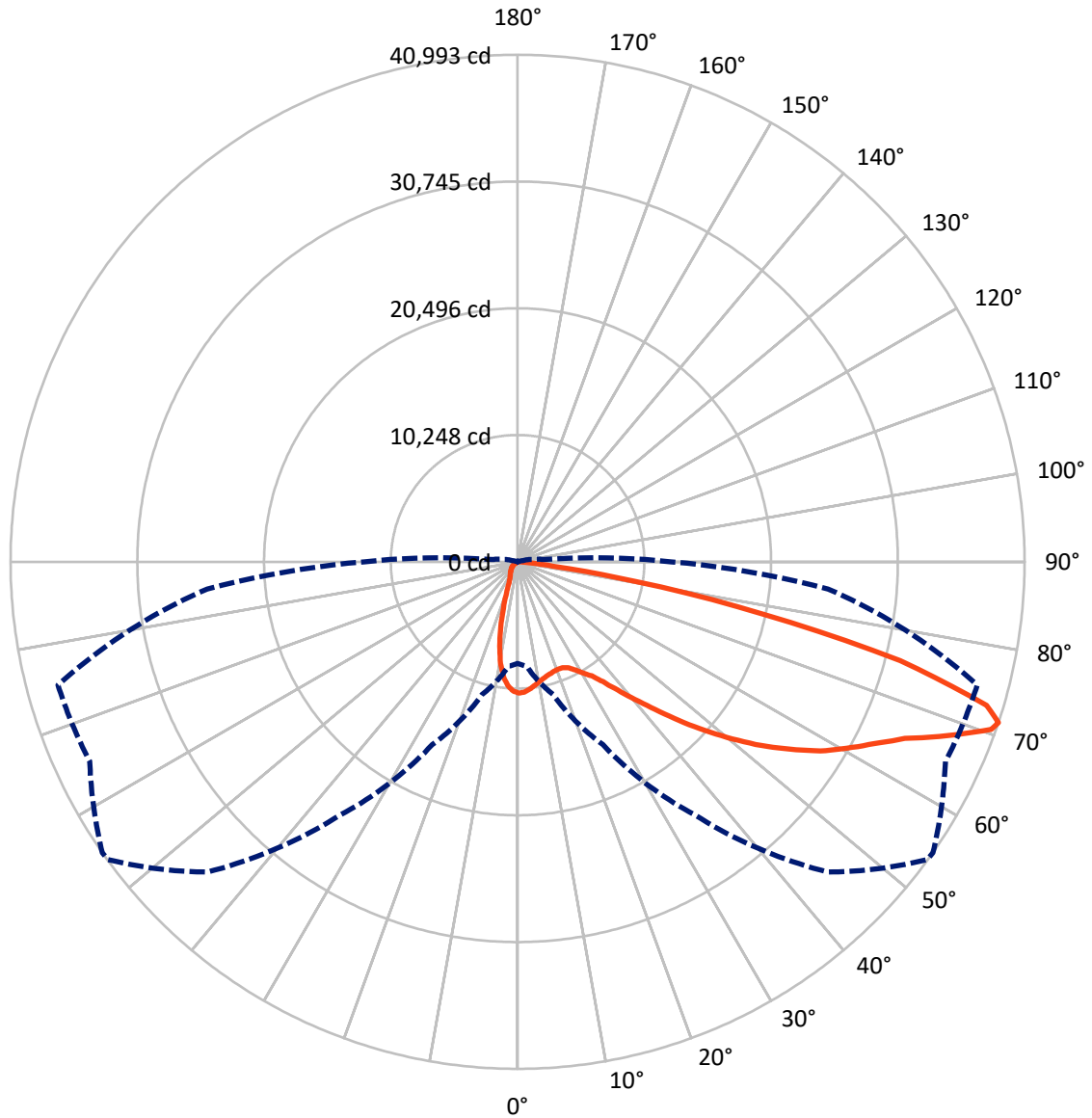
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4356.3	0.0	4356.3
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	50666.5	0.0	50666.5
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	55022.8	0.0	55022.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	904.8	1.6
10°-20°	2042.6	3.7
20°-30°	3282.5	6.0
30°-40°	5577.1	10.1
40°-50°	8656.3	15.7
50°-60°	11638.2	21.2
60°-70°	14237.4	25.9
70°-80°	8324.3	15.1
80°-90°	359.8	0.7
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°	55022.8	100.0
0°-180°	55022.8	100.0

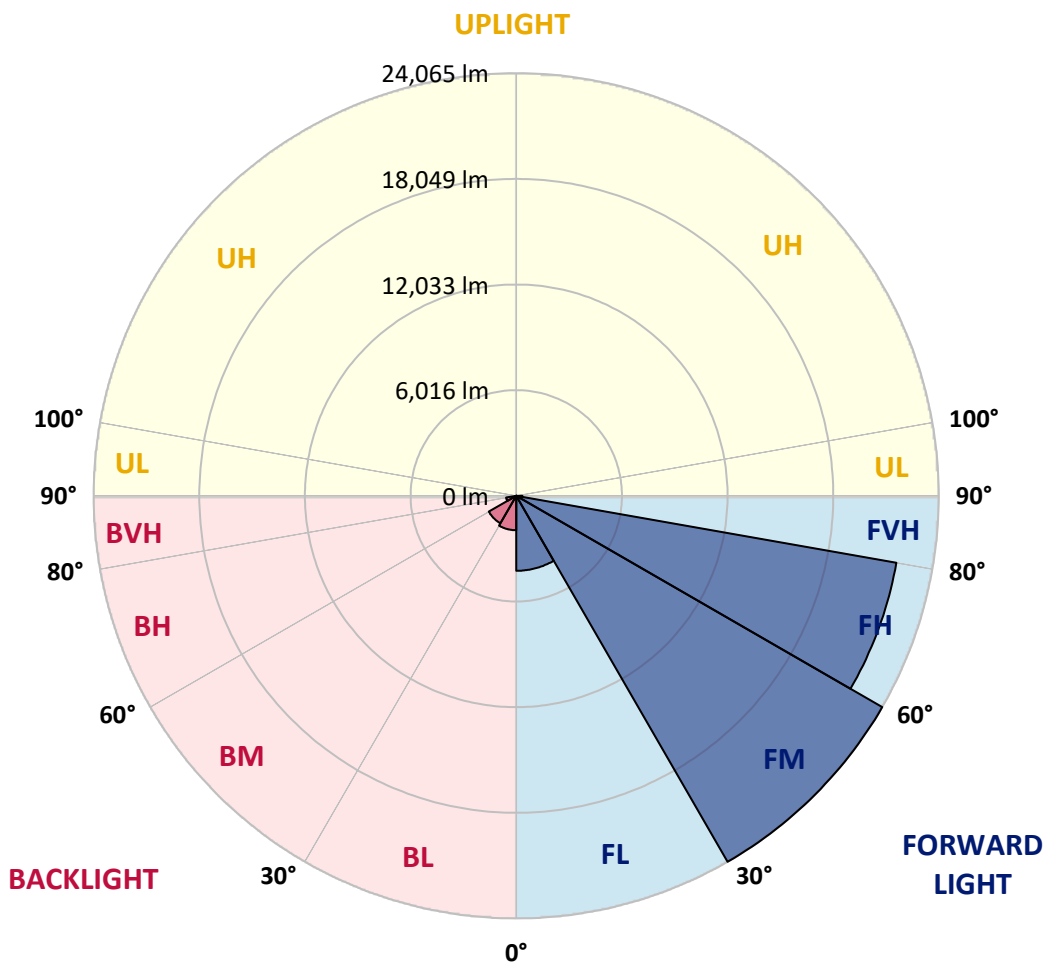


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4269.0	7.8			
FM (30°-60°)	24065.4	43.7			
FH (60°-80°)	21978.0	39.9			G5
FVH (80°-90°)	354.1	0.6			G3/500
BL (0°-30°)	1960.8	3.6	B3/2500		
BM (30°-60°)	1806.2	3.3	B2/2500		
BH (60°-80°)	583.6	1.1	B2/1000		G2/1000
BVH (80°-90°)	5.7	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4
2.5°	10300.0	10312.4	10356.9	10376.6	10423.6	10502.6	10542.1	10544.7	10608.8	10633.6	10653.4
5°	9571.2	9645.3	9719.5	9798.5	9941.8	10132.1	10319.8	10337.1	10544.7	10697.8	10779.3
7.5°	8943.7	9010.4	9099.4	9225.3	9427.9	9726.8	10040.6	10077.7	10470.5	10818.9	11001.7
10°	8298.9	8353.2	8481.6	8666.9	8946.1	9346.4	9768.9	9830.6	10403.8	10981.9	11303.1
12.5°	7609.5	7641.7	7797.3	8064.1	8474.3	8983.2	9539.0	9620.7	10361.8	11169.7	11658.9
15°	7085.7	7100.5	7248.8	7525.5	7994.9	8657.1	9361.2	9460.1	10371.7	11394.5	12046.8
17.5°	6952.3	6959.8	7038.8	7229.1	7644.1	8365.6	9220.4	9341.5	10401.4	11614.4	12437.1
20°	7493.4	7441.5	7360.0	7330.3	7508.3	8190.2	9136.3	9272.3	10440.9	11809.6	12788.0
22.5°	8978.3	8825.1	8486.6	8034.5	7760.3	8202.5	9158.6	9294.5	10566.9	12049.3	13193.1
25°	11182.0	10969.6	10393.9	9504.5	8649.7	8558.2	9343.9	9482.2	10811.4	12335.8	13581.0
27.5°	13689.7	13479.8	12775.6	11505.7	10048.0	9262.4	9768.9	9897.3	11174.7	12590.3	13877.5
30°	16091.2	16031.9	15201.7	13759.0	11807.1	10403.8	10317.4	10426.1	11444.0	12743.5	14112.2
32.5°	18127.0	18033.1	17366.0	15962.7	13820.7	11775.0	10962.2	10994.3	11646.6	12941.2	14418.6
35°	20014.6	19898.4	19312.8	17986.1	15886.1	13450.1	11955.4	11908.4	12088.8	13338.9	14863.3
37.5°	21662.5	21768.7	21118.9	19856.4	17739.1	15191.9	13294.5	13153.6	12780.6	13986.3	15508.1
40°	23041.1	23041.1	22702.6	21650.1	19740.3	16993.0	14808.9	14623.6	13820.7	14984.3	16325.9
42.5°	23537.7	23643.9	23769.9	23174.5	21531.5	18865.7	16496.4	16303.7	15285.8	16400.0	17358.6
45°	23567.3	23735.3	24380.2	24377.7	23149.8	20726.1	18398.7	18307.3	17163.5	18218.4	18638.4
47.5°	23149.8	23359.8	24422.1	25025.0	24432.1	22458.0	20479.0	20365.4	19369.7	20446.9	19977.5
50°	22505.0	22737.2	23972.5	25279.5	25304.2	23965.1	22670.5	22500.0	21798.3	22994.1	21361.0
52.5°	21351.2	21800.8	23569.7	25338.7	25877.4	25267.1	24755.7	24681.5	24516.0	25447.5	22463.0
55°	18883.0	19382.1	22559.3	25358.5	26408.5	26420.9	26710.0	26729.7	27063.2	27740.2	23283.2
57.5°	17716.8	17998.5	20795.3	25452.4	27196.6	27730.3	28701.3	28854.4	29370.9	29916.8	24219.6
60°	16983.0	17316.6	19925.6	25323.9	28434.5	29447.4	30546.8	30598.7	31152.2	32162.6	25487.0
62.5°	16397.6	16726.1	19377.1	24829.8	29825.5	31512.9	32350.4	32355.3	32770.4	34838.3	26927.4
65°	14952.3	15228.9	18267.8	24273.9	30744.5	33556.0	34445.5	34413.3	34751.8	37659.8	28600.0
67.5°	12862.1	13074.6	16002.2	22166.5	30398.6	35414.0	37607.9	37501.7	37091.5	40098.3	29257.2
70°	9944.3	10020.8	12612.6	18472.9	27157.1	36127.9	40664.0	40609.7	38526.9	39661.0	26848.3
71°	8219.8	8471.8	11115.3	16303.7	24985.4	35468.3	40960.5	40992.7	38166.3	38470.1	25190.5
72.5°	4773.2	4988.2	8056.7	12521.1	21212.8	32716.0	39423.8	39656.1	36481.3	34991.4	21516.7
75°	1022.8	1094.5	2987.0	6060.5	11668.8	22929.9	31117.5	31945.2	29734.0	23804.5	12968.4
77.5°	711.5	768.3	1279.8	2749.8	3856.6	11330.3	19330.2	20264.0	17763.8	8946.1	4150.7
80°	563.3	627.6	998.2	1358.8	1042.6	3654.1	9054.8	9625.6	5924.5	1996.3	699.2
82.5°	313.7	373.1	778.2	733.8	400.3	694.3	2534.8	2865.9	1185.9	402.7	165.5
85°	91.4	111.1	501.5	533.7	170.5	133.4	432.3	536.1	224.8	106.2	74.2
87.5°	0.0	0.0	242.1	205.0	49.4	19.7	39.5	44.4	44.4	44.4	49.4
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°	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4	10611.4
2.5°	10653.4	10670.6	10608.8	10527.3	10440.9	10334.6	10223.5	10137.0	10134.5	10092.5	10050.5
5°	10784.2	10774.4	10603.9	10344.6	10038.2	9719.5	9415.5	9072.2	8958.5	8817.7	8770.7
7.5°	11026.4	10957.2	10596.5	10028.3	9356.3	8689.2	7999.9	7305.7	7009.2	6742.4	6695.4
10°	11330.3	11199.3	10549.6	9554.0	8321.0	7090.7	6050.6	5106.7	4691.7	4373.0	4358.2
12.5°	11646.6	11446.4	10418.6	8837.4	6964.7	5235.3	4037.0	3108.0	2762.1	2539.8	2559.6
15°	11977.6	11678.6	10137.0	7871.4	5420.6	3552.7	2480.5	1934.5	1796.1	1739.3	1754.1
17.5°	12316.1	11839.2	9744.2	6707.8	3896.2	2292.7	1717.1	1563.9	1563.9	1576.3	1581.2
20°	12610.1	11925.7	9166.1	5403.3	2641.1	1670.2	1502.1	1479.9	1492.2	1512.0	1514.5
22.5°	12901.7	11930.7	8412.5	4081.5	1848.0	1462.6	1430.5	1420.6	1428.1	1450.2	1452.7
25°	13138.8	11871.4	7468.7	2903.0	1474.9	1378.6	1363.8	1358.8	1363.8	1391.0	1391.0
27.5°	13235.1	11656.5	6317.4	2040.7	1321.8	1284.7	1279.8	1284.7	1292.1	1311.9	1314.4
30°	13245.0	11280.9	5062.3	1477.4	1198.2	1158.8	1168.6	1185.9	1178.5	1173.6	1178.5
32.5°	13269.7	10846.0	3839.4	1215.6	1094.5	1032.7	1020.3	1020.3	990.7	973.5	963.5
35°	13351.3	10334.6	2784.4	1092.1	988.3	916.6	869.7	815.3	758.5	728.8	721.4
37.5°	13479.8	9798.5	1993.8	1010.4	894.4	812.9	723.9	627.6	546.0	523.8	523.8
40°	13714.4	9245.1	1474.9	946.3	820.2	719.0	585.6	459.5	385.4	373.1	373.1
42.5°	14085.0	8662.0	1176.0	889.4	756.0	622.6	447.1	333.5	279.2	271.7	269.3
45°	14470.5	8019.7	1027.8	835.0	686.8	511.4	331.1	247.0	214.9	207.5	207.5
47.5°	14855.9	7335.3	956.1	783.2	620.1	397.8	247.0	195.2	180.3	180.3	182.9
50°	15182.0	6621.3	904.3	726.3	533.7	301.4	195.2	165.5	160.6	170.5	173.0
52.5°	15263.5	5919.6	840.0	654.7	427.4	229.8	160.6	145.8	145.8	145.8	145.8
55°	15214.1	5376.1	756.0	565.7	316.3	182.9	138.3	128.5	126.0	126.0	126.0
57.5°	15382.1	5054.9	605.3	439.8	227.3	148.2	121.1	113.6	108.7	106.2	106.2
60°	15720.6	4844.9	432.3	316.3	170.5	123.5	103.8	96.3	89.0	84.0	84.0
62.5°	16170.3	4662.1	321.2	234.7	131.0	98.8	86.4	79.1	69.2	64.3	64.3
65°	16516.2	4336.0	244.6	175.4	98.8	79.1	66.7	64.3	49.4	44.4	42.0
67.5°	15987.4	3619.4	197.7	128.5	74.2	61.8	51.9	49.4	29.6	24.7	24.7
70°	13712.0	2520.0	158.1	93.9	54.3	49.4	42.0	32.1	22.3	19.7	19.7
71°	12434.7	2105.0	143.3	79.1	46.9	46.9	39.5	27.2	19.7	17.3	17.3
72.5°	10329.7	1494.8	121.1	61.8	42.0	49.4	42.0	24.7	19.7	17.3	14.8
75°	5996.2	625.1	84.0	42.0	32.1	59.3	54.3	22.3	14.8	12.4	12.4
77.5°	1803.6	229.8	46.9	27.2	24.7	51.9	61.8	19.7	7.5	2.5	2.5
80°	328.6	98.8	29.6	17.3	17.3	32.1	46.9	9.9	0.0	0.0	0.0
82.5°	116.2	49.4	17.3	9.9	7.5	14.8	22.3	0.0	0.0	0.0	0.0
85°	66.7	34.6	9.9	4.9	0.0	2.5	4.9	0.0	0.0	0.0	0.0
87.5°	44.4	9.9	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)