

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: P382652

Luminaire Tested: **GLEON-SA0B-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382652  
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-SA0B-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA 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: 38190.7 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

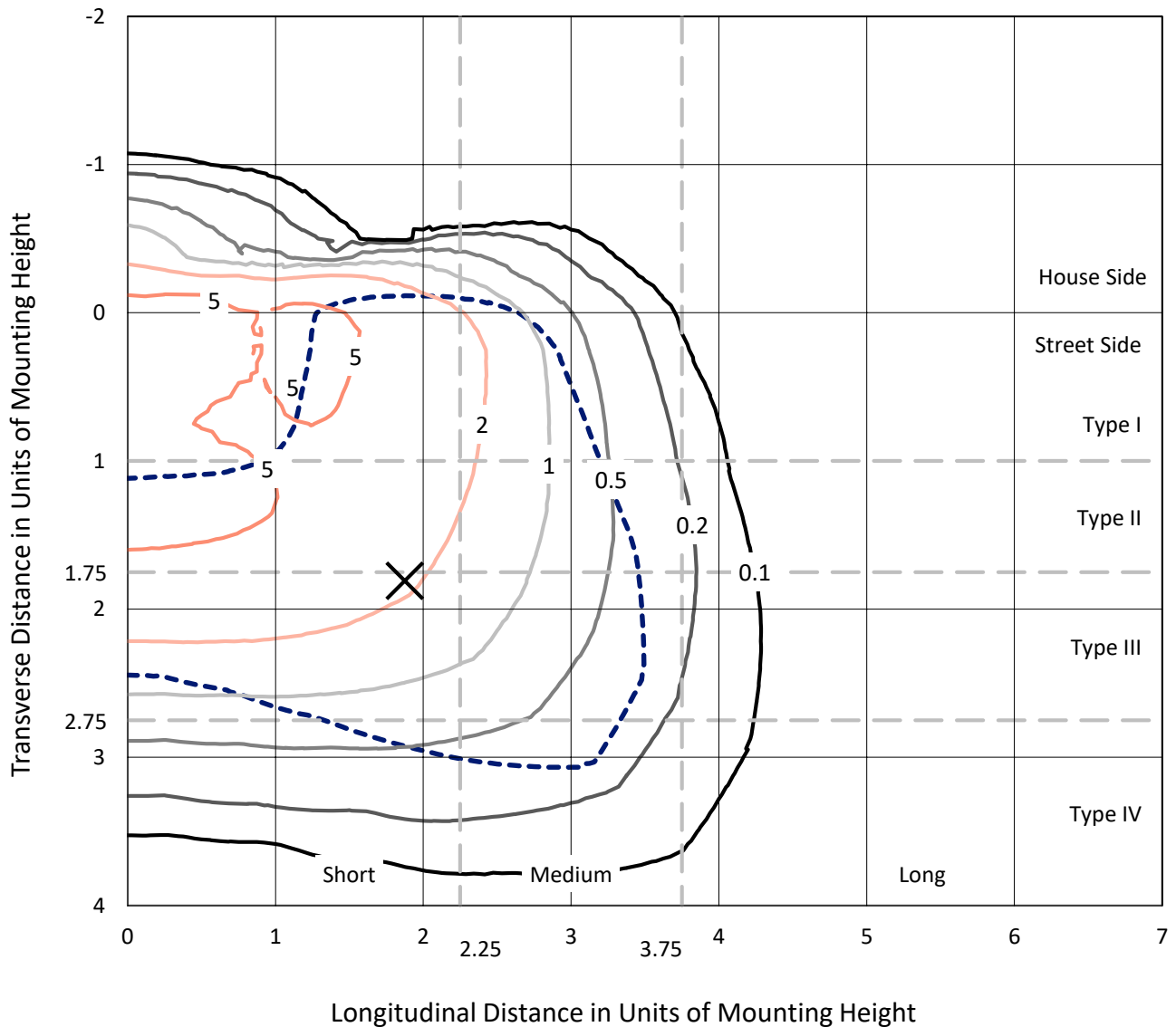
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

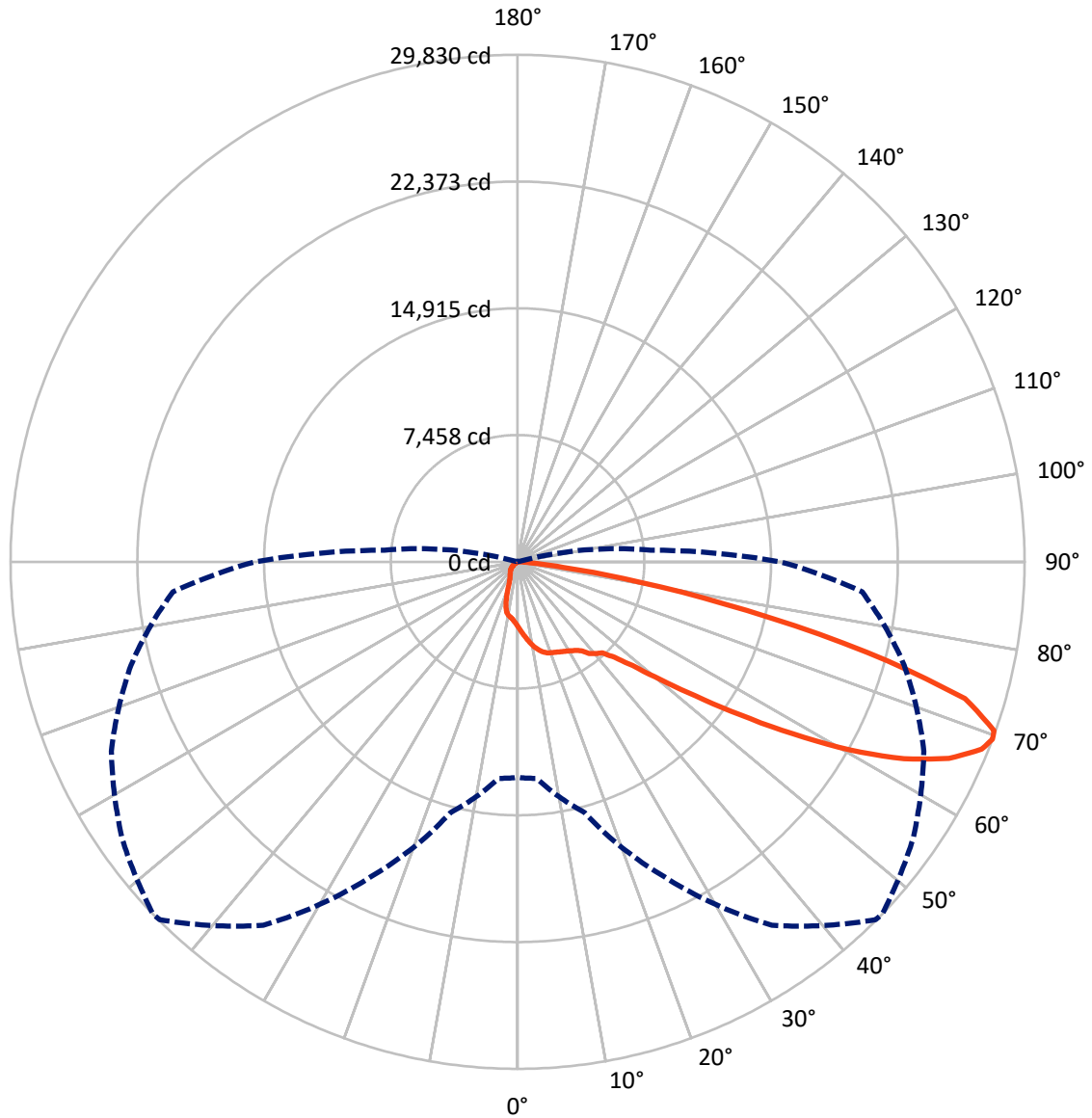
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3919.4	0.0	3919.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	34271.3	0.0	34271.3
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	38190.7	0.0	38190.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.9	1.0
10°-20°	1155.5	3.0
20°-30°	1817.2	4.8
30°-40°	2605.9	6.8
40°-50°	4503.9	11.8
50°-60°	8897.9	23.3
60°-70°	12435.6	32.6
70°-80°	6007.7	15.7
80°-90°	386.1	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°	38190.7	100.0
0°-180°	38190.7	100.0



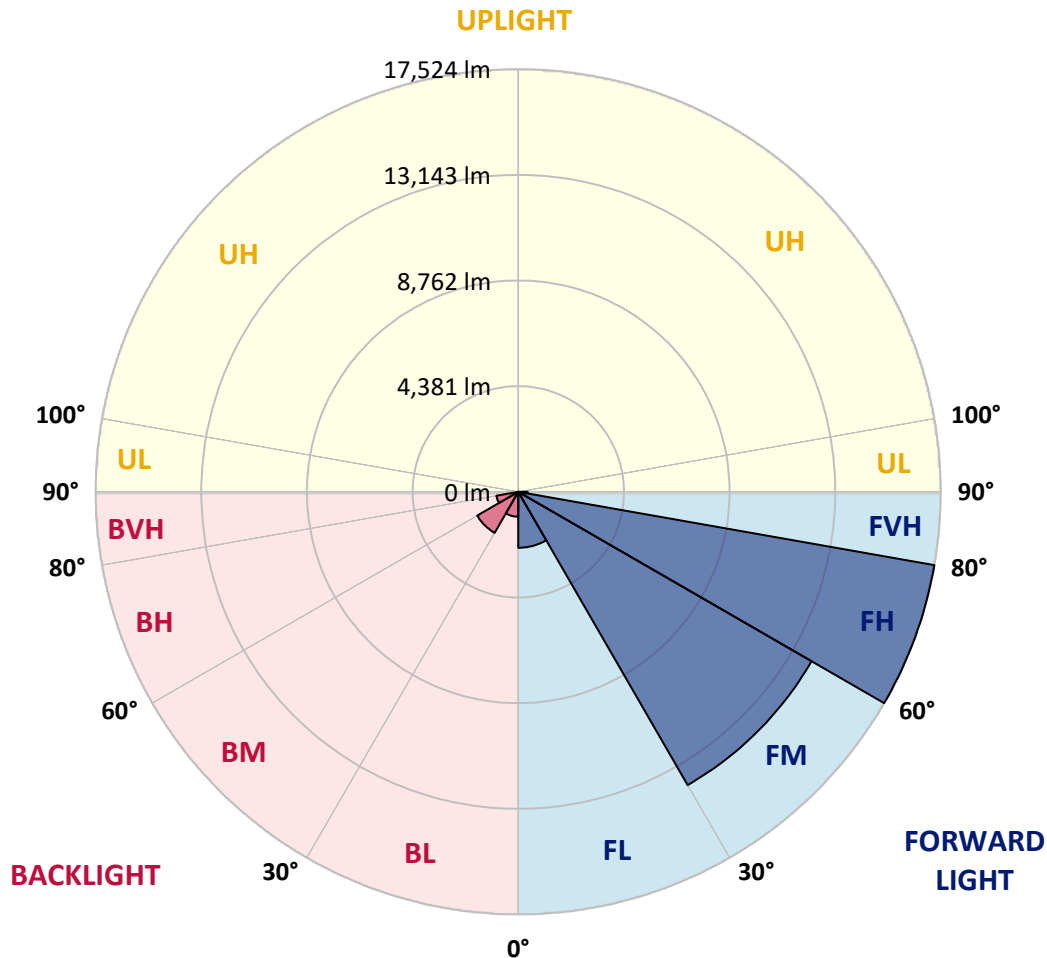
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2320.5	6.1			
FM (30°-60°)	14043.5	36.8			
FH (60°-80°)	17524.3	45.9			G5
FVH (80°-90°)	382.9	1.0			G3/500
BL (0°-30°)	1033.0	2.7	B3/2500		
BM (30°-60°)	1964.1	5.1	B2/2500		
BH (60°-80°)	919.0	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5
2.5°	4250.9	4245.5	4220.5	4209.8	4148.8	4113.1	4098.7	4054.0	3989.5	3925.1	3853.4
5°	4734.4	4732.6	4686.1	4641.2	4526.7	4419.3	4399.6	4295.7	4150.7	4014.6	3878.5
7.5°	5228.6	5205.3	5158.8	5072.8	4906.3	4734.4	4718.3	4571.5	4365.5	4168.6	3973.4
10°	5647.6	5633.3	5572.4	5441.7	5246.6	5051.3	5031.7	4850.8	4618.1	4376.3	4127.4
12.5°	5973.5	5962.7	5882.2	5719.2	5511.5	5309.2	5282.3	5121.2	4872.3	4601.9	4308.2
15°	6172.2	6166.9	6068.4	5894.7	5690.6	5515.1	5491.8	5350.3	5119.4	4836.5	4505.2
17.5°	6218.8	6220.6	6118.6	5943.1	5774.8	5649.4	5631.5	5524.1	5330.7	5049.5	4702.2
20°	6115.0	6136.5	6045.2	5893.0	5789.1	5722.9	5708.5	5644.1	5481.1	5216.1	4859.8
22.5°	5968.1	5978.9	5916.3	5814.2	5771.2	5783.7	5776.5	5740.8	5602.9	5359.4	5015.5
25°	5878.6	5878.6	5841.0	5755.1	5783.7	5860.7	5862.5	5855.3	5746.1	5534.8	5205.3
27.5°	5875.0	5864.3	5821.3	5756.9	5835.7	5953.8	5961.0	6009.3	5941.3	5747.9	5441.7
30°	6018.3	6005.8	5914.4	5830.3	5930.5	6057.7	6075.6	6181.2	6147.2	5978.9	5704.9
32.5°	6353.2	6308.3	6106.0	5968.1	6043.3	6195.5	6218.8	6387.2	6440.9	6263.6	5959.2
35°	6811.6	6670.1	6378.2	6229.5	6236.7	6396.1	6417.6	6664.7	6824.1	6525.0	6156.1
37.5°	7443.6	7373.8	6899.2	6501.7	6534.0	6775.7	6838.4	7107.0	7062.2	6668.3	6380.0
40°	8829.6	8720.3	8215.4	7264.6	6818.6	7083.7	7103.4	7246.7	7250.2	6992.4	6845.6
42.5°	10716.9	10672.1	10140.3	8648.7	7379.2	7289.6	7325.4	7567.1	7837.6	7676.4	7669.2
45°	12806.5	12783.3	12219.2	10485.9	8512.6	7964.7	8009.4	8333.5	8851.0	8886.9	9114.3
47.5°	14487.9	14477.2	14153.1	12536.1	10247.8	9108.9	9123.2	9467.0	10376.7	10826.1	11189.6
50°	16020.7	16072.6	15816.6	14754.7	12611.4	10901.3	10867.2	11096.5	12557.6	13293.6	13744.8
52.5°	18151.6	18225.0	17506.9	16824.7	15091.4	13125.2	13098.4	13338.4	15179.1	15730.6	15811.2
55°	20033.5	19908.1	19340.5	19143.6	18115.7	15872.1	15864.9	16076.2	17714.6	17949.2	18097.8
57.5°	20864.3	20816.0	21090.0	21541.2	21283.3	19118.5	19102.4	18941.3	19983.4	20008.4	20465.0
60°	21389.0	21448.0	22287.9	23679.2	24322.1	22612.0	22508.1	21525.1	22150.0	22094.5	22583.3
62.5°	20995.0	21111.5	22622.7	24941.6	26596.1	25661.4	25514.6	23892.2	24001.5	23809.9	24264.8
65°	18903.6	19084.4	21560.9	24703.4	27724.3	28044.7	27896.1	25982.0	25471.6	25156.4	24904.0
67.5°	15349.2	15456.6	18042.3	22631.7	27215.7	29466.5	29436.1	27813.8	26581.8	24929.1	22970.1
69°	12684.8	12790.4	15279.4	20450.7	26096.6	29770.9	29830.0	28401.0	26370.5	23546.7	20352.3
70°	10743.7	10856.5	13175.4	18581.3	24798.4	29629.5	29735.1	28345.6	25765.3	21945.9	18054.9
72.5°	5635.1	5731.8	8111.5	12801.1	20216.2	27206.7	27527.2	25949.7	21840.2	15938.3	10675.7
75°	1771.0	1826.4	3167.6	6691.6	13841.5	21154.4	21227.8	20355.8	15508.6	8766.9	4446.1
77.5°	675.1	659.0	1054.7	2465.7	6997.8	13320.5	13769.9	12720.6	8138.4	3099.5	1026.0
80°	363.5	365.3	547.9	1020.7	2993.9	6845.6	7225.2	6165.1	2891.9	966.9	236.3
82.5°	157.6	164.7	308.0	540.8	1375.2	2524.8	2714.6	2259.7	1104.8	650.0	87.8
85°	34.0	37.6	148.6	293.6	560.4	709.1	743.1	732.4	703.7	505.0	34.0
87.5°	0.0	0.0	66.2	105.6	141.5	161.2	141.5	184.4	388.5	340.2	17.9
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°	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5	3826.5
2.5°	3830.2	3797.9	3742.4	3681.5	3638.5	3593.8	3558.0	3541.8	3524.0	3511.4	3527.5
5°	3823.0	3760.3	3652.9	3549.0	3473.8	3412.9	3362.8	3343.1	3323.4	3309.0	3307.3
7.5°	3885.7	3797.9	3633.1	3481.0	3364.6	3282.2	3214.2	3185.5	3162.2	3151.5	3142.6
10°	4005.7	3892.8	3672.5	3473.8	3323.4	3183.8	3036.9	2924.1	2850.6	2816.6	2804.1
12.5°	4161.4	4019.9	3747.8	3511.4	3292.9	3024.4	2712.8	2444.2	2270.6	2213.2	2179.2
15°	4344.1	4168.6	3846.3	3559.7	3182.0	2691.3	2163.1	1812.1	1651.0	1618.8	1582.9
17.5°	4519.5	4326.1	3964.5	3568.7	2938.4	2150.6	1584.7	1346.6	1283.9	1305.4	1310.8
20°	4673.5	4482.0	4080.8	3489.9	2496.1	1613.3	1226.6	1167.5	1190.8	1232.0	1239.1
22.5°	4829.3	4632.3	4188.2	3282.2	1930.3	1224.8	1104.8	1119.2	1142.4	1183.6	1190.8
25°	5019.1	4815.0	4288.6	2900.8	1448.6	1042.1	1049.3	1070.8	1094.1	1131.6	1135.3
27.5°	5237.5	5046.0	4354.8	2404.8	1074.4	958.0	981.3	1013.5	1036.8	1072.6	1079.8
30°	5527.6	5350.3	4376.3	1890.9	900.7	882.7	893.5	932.9	966.9	999.2	1004.6
32.5°	5799.8	5651.2	4304.7	1427.1	834.4	813.0	813.0	836.3	875.7	906.0	913.2
35°	6050.5	5953.8	4075.4	1043.9	784.3	748.5	730.6	730.6	755.7	780.7	787.9
37.5°	6381.8	6378.2	3704.8	832.6	735.9	694.7	657.1	628.5	619.6	624.9	628.5
40°	6949.4	6954.7	3221.3	746.7	694.7	639.2	581.9	530.1	481.7	465.6	463.8
42.5°	7835.8	7755.2	2714.6	705.5	659.0	581.9	496.0	426.2	351.0	327.7	325.9
45°	9243.2	8765.1	2177.4	667.9	621.3	517.5	410.1	315.1	254.3	236.3	236.3
47.5°	11293.4	10091.9	1686.8	626.7	571.2	444.1	309.7	227.4	186.2	177.3	179.0
50°	13413.5	11392.0	1292.8	574.8	510.3	367.1	229.2	164.7	141.5	141.5	143.3
52.5°	15293.7	12344.6	1008.1	519.2	435.1	288.3	173.7	128.9	118.2	116.4	118.2
55°	17053.9	12958.8	771.8	454.8	345.6	214.9	132.5	105.6	98.5	94.9	93.2
57.5°	18751.4	13263.2	578.4	367.1	250.7	155.8	105.6	89.5	82.3	77.0	75.2
60°	19881.3	13016.0	397.5	270.4	173.7	112.8	87.8	77.0	68.0	62.7	60.9
62.5°	20518.7	12341.0	256.1	195.2	123.5	84.1	69.9	64.5	51.9	46.6	46.6
65°	20260.9	11227.2	179.0	139.6	89.5	62.7	51.9	51.9	37.6	30.5	28.7
67.5°	17954.6	9484.9	136.1	103.9	64.5	46.6	39.4	44.8	23.3	14.3	14.3
69°	15447.7	7860.9	116.4	86.0	53.8	37.6	34.0	41.2	16.1	10.7	8.9
70°	13426.1	6781.1	105.6	75.2	44.8	32.2	30.5	39.4	16.1	8.9	7.2
72.5°	8032.7	3781.8	80.6	53.8	28.7	25.1	25.1	44.8	16.1	8.9	7.2
75°	3246.4	1332.2	59.1	37.6	21.5	21.5	30.5	57.3	14.3	7.2	5.4
77.5°	735.9	291.9	34.0	23.3	14.3	21.5	35.8	44.8	8.9	3.5	0.0
80°	179.0	71.6	21.5	14.3	8.9	16.1	26.8	25.1	1.8	0.0	0.0
82.5°	59.1	25.1	8.9	7.2	1.8	5.4	12.6	7.2	0.0	0.0	0.0
85°	25.1	14.3	3.5	1.8	0.0	0.0	1.8	0.0	0.0	0.0	0.0
87.5°	16.1	5.4	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)