

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: P383713

Luminaire Tested: **GLEON-SA9D-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9D-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 66069.1 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

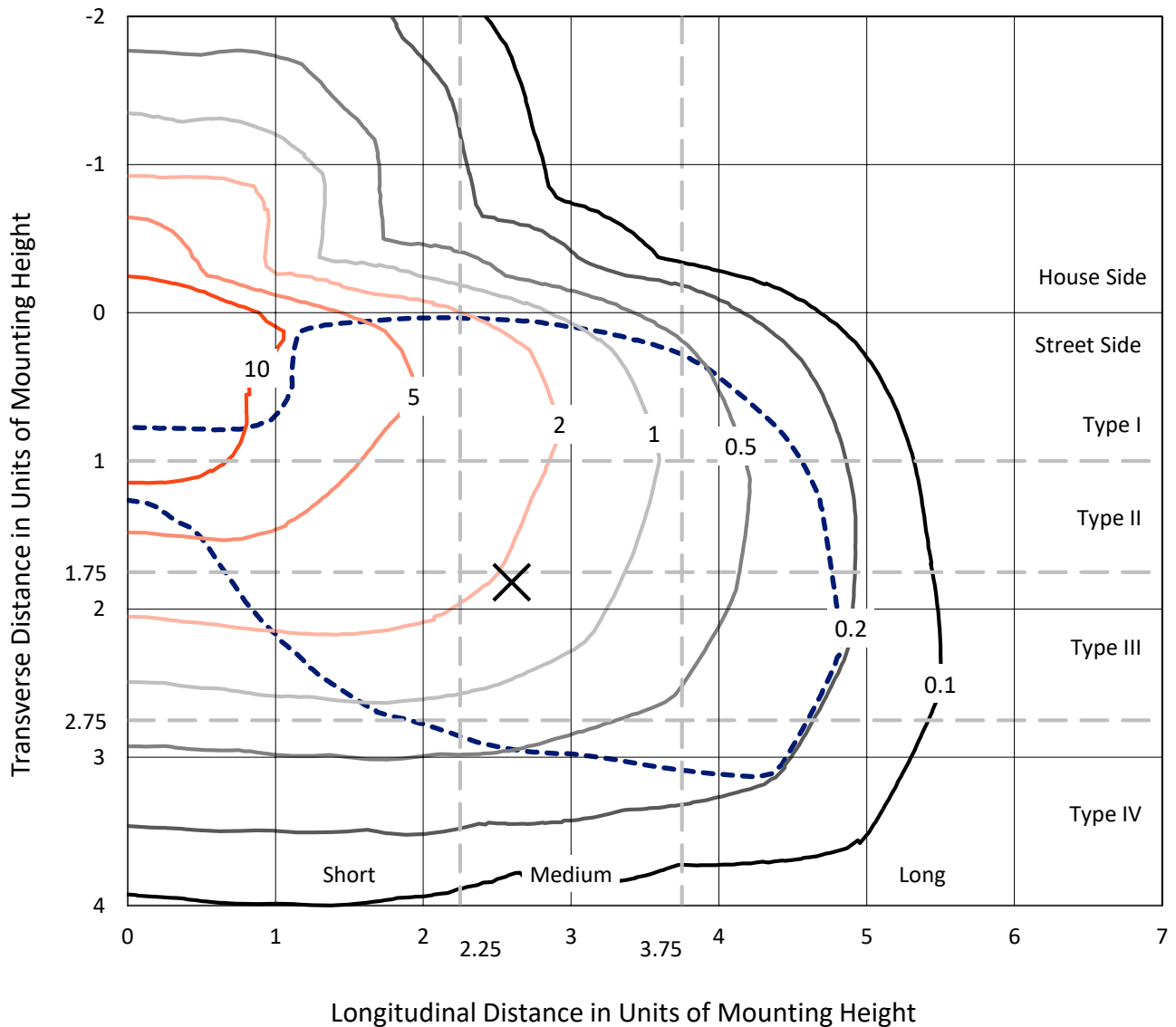
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

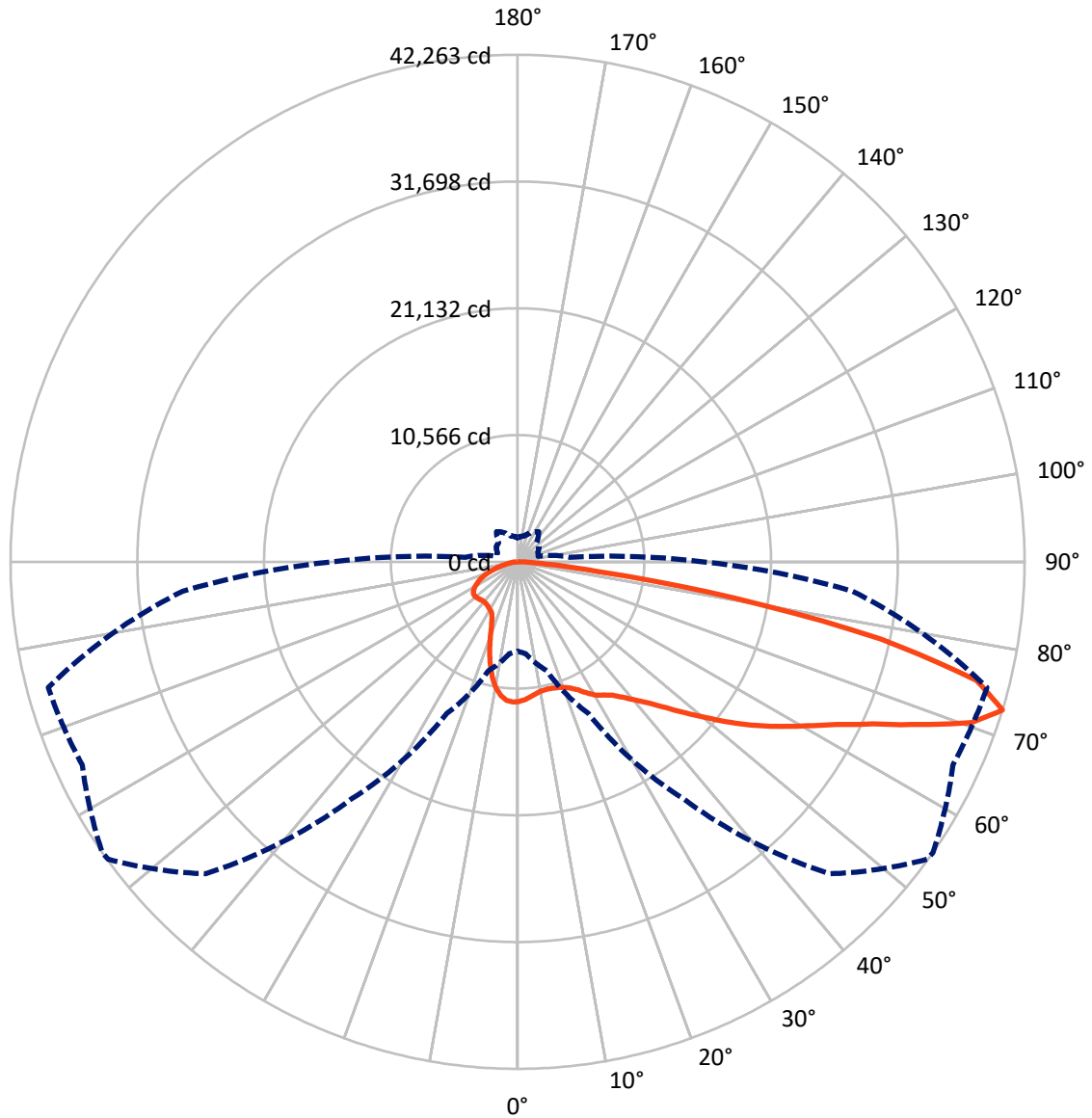
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12280.1	0.0	12280.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	53789.0	0.0	53789.0
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	66069.1	0.0	66069.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1054.5	1.6
10°-20°	2807.4	4.2
20°-30°	4628.7	7.0
30°-40°	6847.0	10.4
40°-50°	9557.0	14.5
50°-60°	12443.5	18.8
60°-70°	15292.7	23.1
70°-80°	11987.6	18.1
80°-90°	1450.7	2.2
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°	66069.1	100.0
0°-180°	66069.1	100.0

**Coefficient of Utilization**

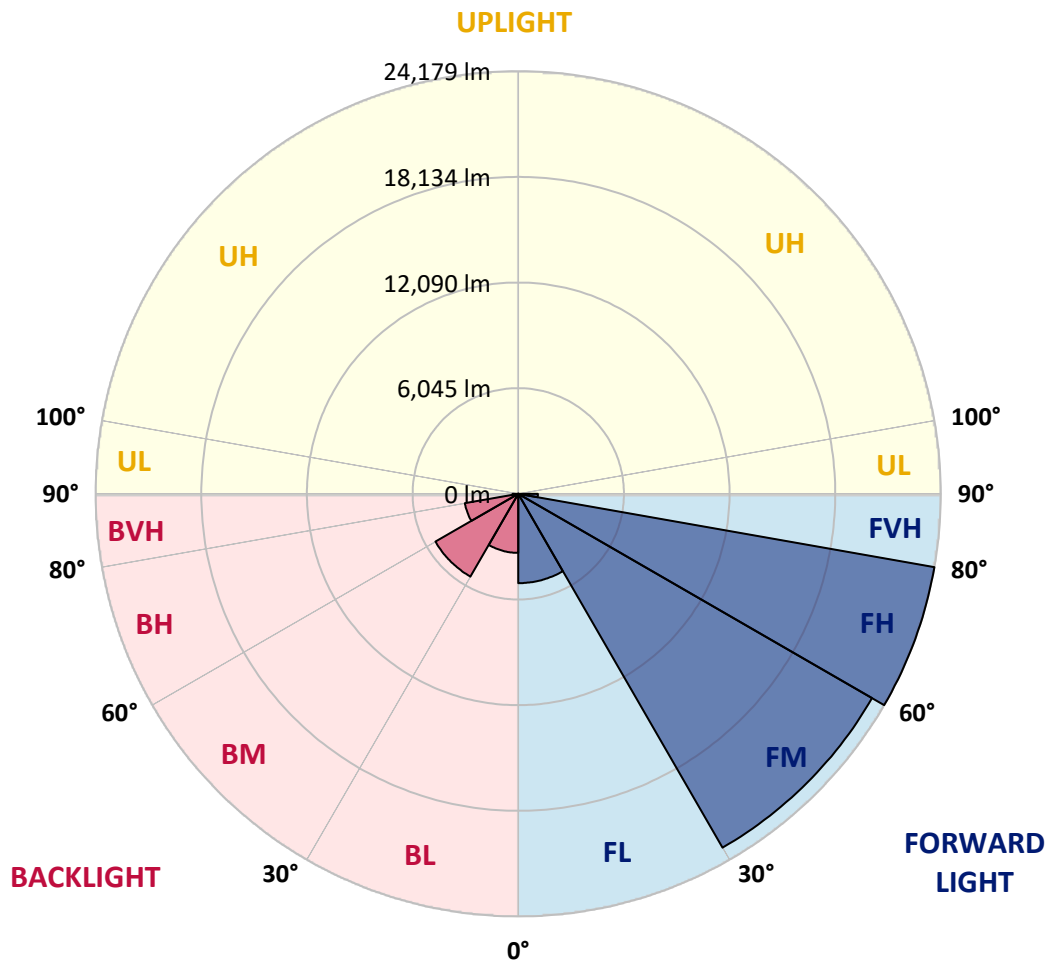


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5111.8	7.7			
FM (30°-60°)	23376.6	35.4			
FH (60°-80°)	24179.1	36.6			G5
FVH (80°-90°)	1121.6	1.7			G5
BL (0°-30°)	3378.8	5.1	B4/5000		
BM (30°-60°)	5471.0	8.3	B4/8500		
BH (60°-80°)	3101.3	4.7	B4/5000		G4/5000
BVH (80°-90°)	329.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2
2.5°	11273.8	11247.0	11280.5	11327.3	11378.7	11447.9	11488.0	11505.9	11575.0	11601.9	11659.9
5°	10751.6	10738.2	10794.0	10874.3	10988.2	11148.9	11278.2	11302.8	11485.8	11615.2	11733.5
7.5°	10372.2	10372.2	10437.0	10532.9	10660.2	10876.6	11059.6	11093.1	11403.3	11682.2	11900.9
10°	10071.0	10082.1	10158.1	10271.8	10421.3	10651.2	10894.4	10932.4	11380.9	11838.4	12186.5
12.5°	9870.1	9896.9	9966.1	10068.7	10254.0	10532.9	10840.9	10892.2	11427.8	12061.5	12530.2
15°	9997.4	10042.0	10048.7	10091.1	10193.7	10497.2	10872.1	10925.7	11528.2	12289.2	12920.7
17.5°	10555.3	10570.8	10501.7	10412.5	10363.4	10557.5	10965.8	11021.6	11648.7	12514.5	13295.6
20°	11403.3	11394.3	11244.8	11003.8	10753.9	10785.1	11119.8	11177.8	11811.7	12713.1	13670.5
22.5°	12474.4	12443.1	12213.2	11769.2	11343.0	11164.4	11389.8	11438.9	12057.1	12996.6	14072.1
25°	13773.1	13704.0	13400.5	12804.7	12177.6	11717.8	11796.0	11842.9	12414.1	13313.4	14440.4
27.5°	15143.3	15074.1	14688.1	13967.3	13132.7	12416.3	12356.1	12396.3	12820.2	13547.8	14712.6
30°	16576.0	16502.4	16149.8	15341.9	14145.8	13139.4	12878.3	12893.9	13105.9	13674.9	14935.8
32.5°	18015.3	17946.2	17551.2	16613.9	15246.0	13915.9	13255.5	13235.3	13277.7	13806.7	15188.0
35°	19474.7	19501.6	19039.6	18002.0	16464.4	14779.6	13701.8	13659.4	13565.6	14076.6	15545.0
37.5°	21036.9	21019.0	20420.9	19336.4	17738.6	15716.8	14342.2	14335.5	14011.9	14587.7	16105.2
40°	22081.2	22092.4	21728.6	20702.1	19026.2	16754.5	15163.4	15147.8	14723.8	15353.1	16839.3
42.5°	22489.6	22563.2	22656.9	22005.3	20374.1	17957.3	16143.1	16120.7	15716.8	16451.0	17702.9
45°	22518.6	22665.9	23246.1	23163.5	21739.8	19334.2	17395.0	17332.5	17042.4	17910.4	18733.9
47.5°	22268.6	22420.4	23384.5	23853.0	22960.4	20786.9	18858.8	18809.7	18559.8	19735.9	19849.7
50°	21721.9	21867.0	23098.8	24190.1	23964.6	22183.9	20545.9	20416.4	20282.6	21844.7	21126.1
52.5°	20697.7	20976.6	22717.2	24270.4	24564.9	23424.6	22320.0	22235.2	22308.8	24069.5	22404.7
55°	18271.9	18584.4	21733.1	24203.4	25009.0	24466.7	24094.1	24089.6	24471.2	26403.7	23777.2
57.5°	16912.9	17133.9	19729.2	24089.6	25535.7	25502.1	25850.3	25892.7	26635.8	28945.4	25214.3
60°	16145.3	16377.4	18713.8	23667.8	26352.4	26841.1	27642.3	27727.0	28836.1	31759.4	26943.8
62.5°	15446.8	15701.2	18084.5	22808.7	27314.2	28755.8	29789.0	29864.9	31165.9	34651.5	28615.2
65°	14253.0	14540.8	17162.8	22244.1	28189.0	31252.9	32518.2	32569.5	33841.4	37682.0	29893.8
67.5°	12565.8	12829.2	15424.5	20996.7	28836.1	34285.6	36146.7	36175.7	36494.8	39822.1	30547.7
70°	10595.4	10695.8	12947.5	18421.4	28070.7	37121.9	40123.3	40130.0	38913.8	41192.2	30440.6
72.5°	7444.5	7681.0	9399.3	13945.0	24123.1	36776.0	42187.5	42263.4	40038.5	40500.4	28008.2
75°	4565.8	4815.7	5895.8	8450.9	15304.0	28923.2	38978.6	39505.2	37929.7	36111.0	22880.1
77.5°	3052.8	3146.5	3847.2	4927.2	6933.4	16640.7	29967.5	30958.3	31509.5	26334.6	14632.3
80°	1702.7	1881.2	2550.7	3061.7	3084.0	6612.1	17968.4	18200.6	17531.1	10486.1	4514.5
82.5°	901.6	999.7	1702.7	1798.6	1682.6	2213.7	6696.9	6703.6	5601.2	2811.8	1341.1
85°	698.5	781.0	1167.1	1097.9	859.2	981.9	2209.3	2329.7	1905.8	1151.5	437.4
87.5°	348.1	432.9	792.2	696.2	336.9	281.1	790.0	843.5	752.0	450.8	158.5
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°	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2	11653.2
2.5°	11682.2	11702.3	11726.8	11700.1	11691.1	11655.4	11595.2	11581.7	11550.5	11552.8	11570.6
5°	11784.8	11818.3	11804.9	11702.3	11579.5	11407.7	11229.2	11077.4	10977.0	10970.3	10963.6
7.5°	11981.2	12003.5	11898.7	11606.3	11262.6	10865.4	10490.5	10162.5	9963.8	9914.7	9903.7
10°	12289.2	12284.7	11996.8	11407.7	10722.6	10013.0	9410.5	8955.2	8689.7	8611.6	8591.5
12.5°	12632.8	12581.5	12030.3	11046.2	9959.5	8975.3	8212.2	7705.6	7428.8	7339.6	7317.2
15°	12987.6	12860.5	11947.8	10506.2	9022.1	7857.3	7056.2	6587.5	6438.0	6388.9	6380.0
17.5°	13317.9	13072.4	11711.2	9774.2	7953.3	6743.8	6118.9	5931.4	5967.2	6031.9	6034.1
20°	13641.5	13215.2	11331.8	8850.4	6826.3	5826.6	5614.6	5753.0	5922.5	6054.2	6072.0
22.5°	13960.5	13315.6	10843.1	7783.6	5817.7	5311.1	5460.6	5712.8	5906.9	6049.7	6074.2
25°	14228.4	13340.2	10169.1	6645.6	5117.0	5117.0	5387.0	5625.7	5817.7	5958.3	5982.8
27.5°	14326.6	13175.1	9218.5	5592.3	4764.4	5027.7	5284.3	5482.9	5645.8	5795.3	5822.1
30°	14364.5	12869.3	8120.6	4746.5	4619.4	4931.7	5146.0	5315.6	5469.5	5610.2	5634.7
32.5°	14371.2	12501.2	6955.8	4266.8	4518.9	4831.3	4974.1	5123.6	5288.8	5344.6	5353.5
35°	14413.6	12066.0	5728.4	4021.2	4425.1	4737.6	4851.4	4958.5	4690.7	4710.8	4728.6
37.5°	14536.3	11635.3	4701.9	3882.9	4365.0	4688.5	4824.6	4436.3	4226.5	4177.4	4170.7
40°	14766.1	11175.6	3940.9	3771.3	4342.6	4713.1	4652.8	4141.8	3780.2	3510.3	3470.1
42.5°	15085.3	10680.2	3454.5	3697.7	4358.2	4831.3	4414.0	3858.4	3258.1	3084.0	3061.7
45°	15444.6	10160.3	3191.1	3646.4	4411.8	4922.8	4365.0	3481.2	3014.9	2883.1	2872.0
47.5°	15792.7	9524.2	3055.0	3624.0	4485.4	4849.2	4157.4	3365.2	2898.8	2829.6	2836.3
50°	16192.2	8950.8	2972.4	3599.5	4550.1	4802.3	3923.0	3304.9	2854.2	2938.9	3028.2
52.5°	16529.1	8357.2	2898.8	3550.4	4574.6	4719.7	3862.8	3316.1	2854.2	3017.1	3101.9
55°	16928.5	7908.7	2814.0	3447.8	4527.8	4485.4	3820.5	3383.0	2887.6	2785.0	2793.9
57.5°	17444.1	7761.4	2720.3	3287.1	4371.6	4144.0	3800.3	3447.8	2867.6	2802.8	2825.1
60°	18158.1	7917.5	2682.3	3077.3	4128.3	3876.2	3802.6	3414.3	2726.9	2615.4	2617.6
62.5°	18838.8	8091.6	2680.1	2945.6	3829.3	3637.4	3751.2	3304.9	2655.6	2590.8	2615.4
65°	19061.9	7915.4	2572.9	2798.4	3492.4	3351.8	3657.5	3188.9	2602.0	2503.8	2499.3
67.5°	18762.9	7368.5	2356.5	2559.6	3106.3	3019.3	3534.8	3050.5	2517.2	2436.8	2423.4
70°	17874.7	6147.9	2088.7	2244.9	2666.7	2644.4	3340.6	2889.8	2403.4	2334.2	2276.1
72.5°	15484.7	4380.5	1760.7	1867.8	2171.3	2242.7	3072.8	2680.1	2242.7	2093.2	2003.9
75°	12717.6	3242.4	1446.0	1468.4	1649.1	1843.3	2704.7	2434.6	2053.0	1798.6	1729.4
77.5°	7788.1	1983.8	1151.5	1160.4	1182.7	1470.6	2227.1	2160.2	1812.0	1499.6	1450.5
80°	2521.7	1082.3	832.3	874.7	807.8	1077.8	1722.8	1838.8	1555.4	1254.1	1200.6
82.5°	959.6	631.5	562.4	591.3	560.1	723.1	1256.4	1472.9	1274.2	1030.9	839.0
85°	464.2	357.1	332.5	372.7	345.9	370.5	803.4	1084.5	966.3	671.7	624.8
87.5°	165.2	158.5	127.2	171.9	147.3	131.6	245.5	546.7	638.2	462.0	412.9
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)