

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: P382630

Luminaire Tested: **GLEON-SA0B-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
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-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54057.7 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

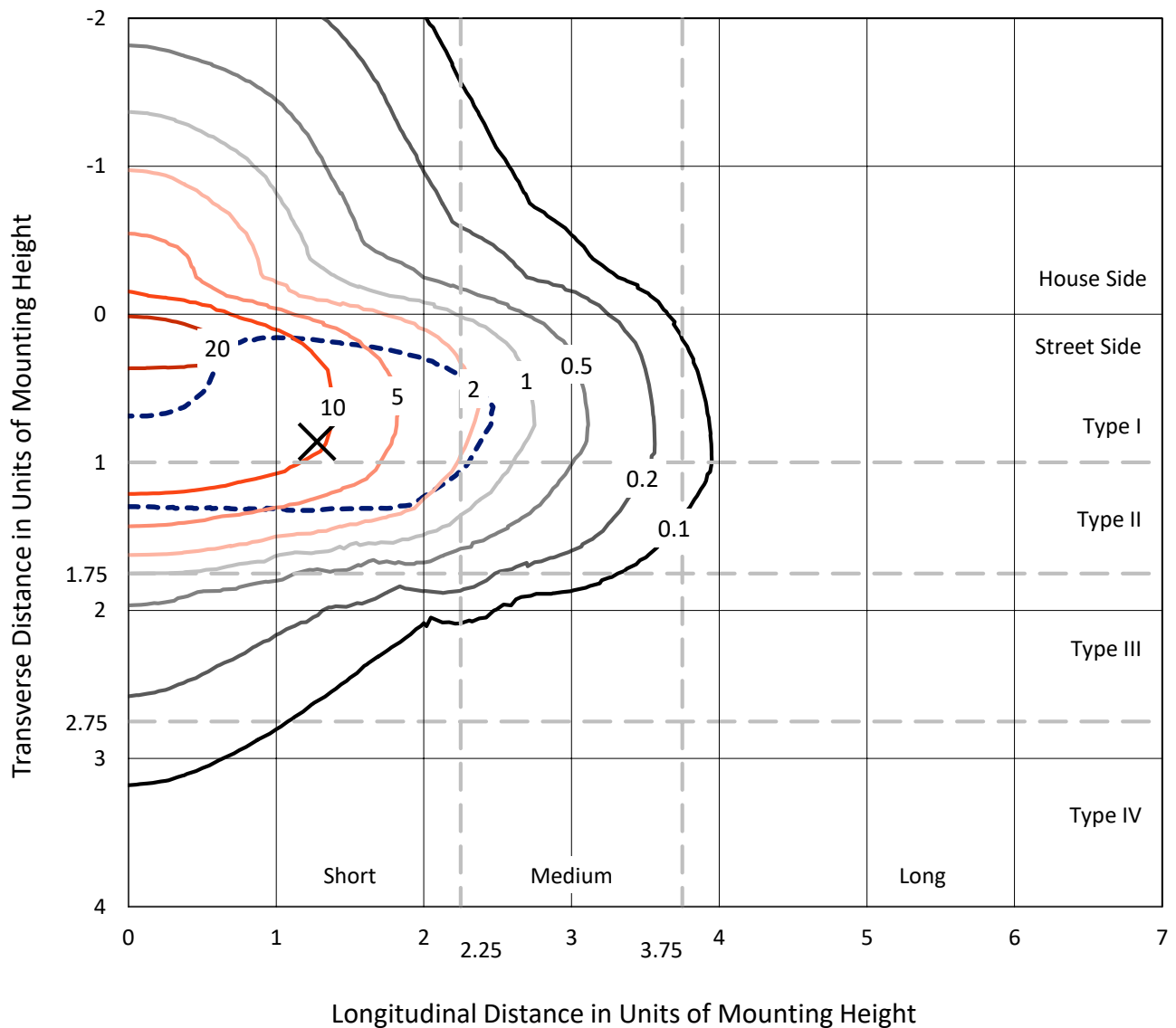
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

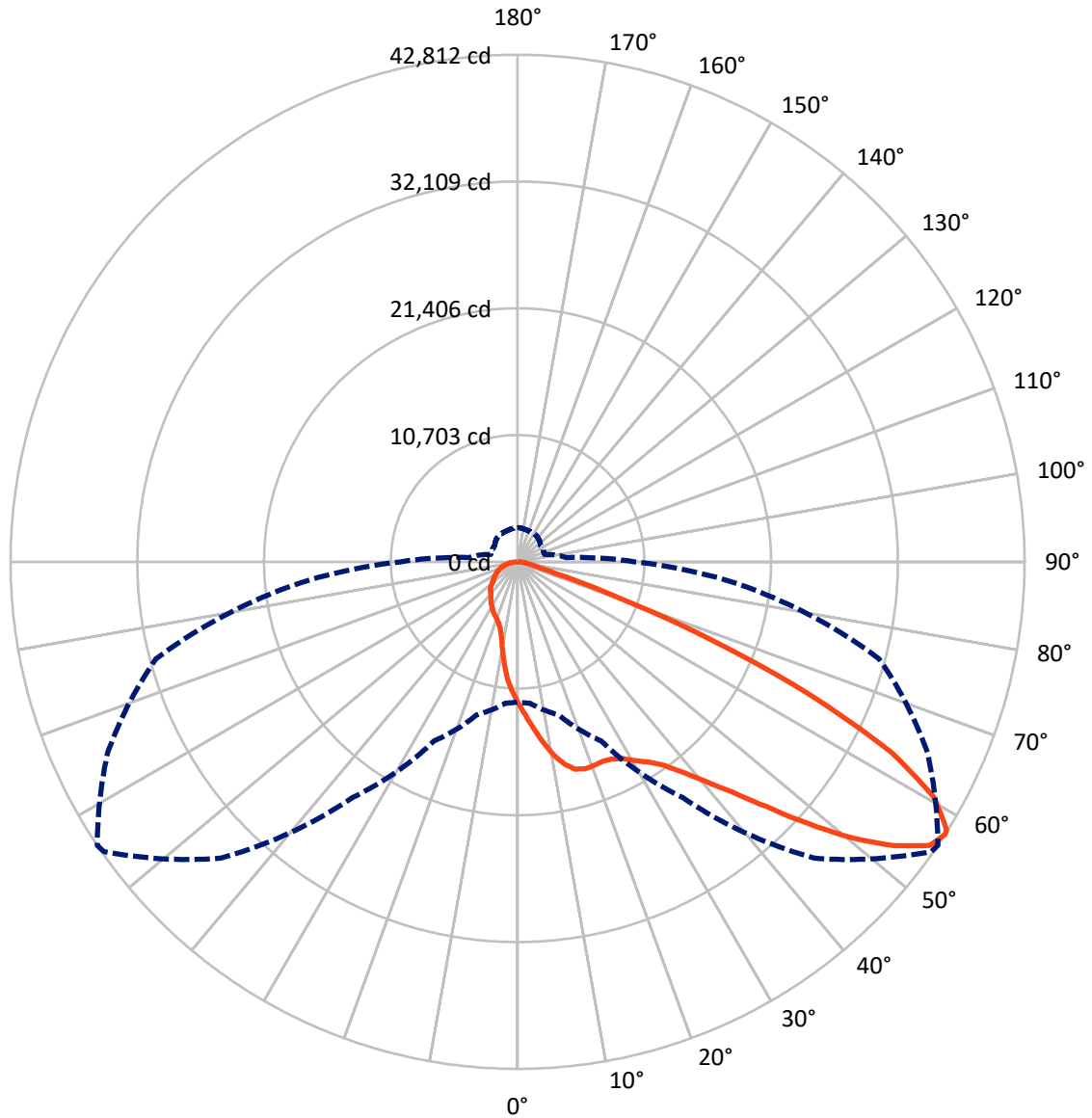
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9318.4	0.0	9318.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	44739.3	0.0	44739.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	54057.7	0.0	54057.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1145.4	2.1
10°-20°	3238.2	6.0
20°-30°	5274.4	9.8
30°-40°	7884.6	14.6
40°-50°	11959.2	22.1
50°-60°	13404.2	24.8
60°-70°	7917.0	14.6
70°-80°	2593.9	4.8
80°-90°	640.9	1.2
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°	54057.7	100.0
0°-180°	54057.7	100.0

Coefficient of Utilization



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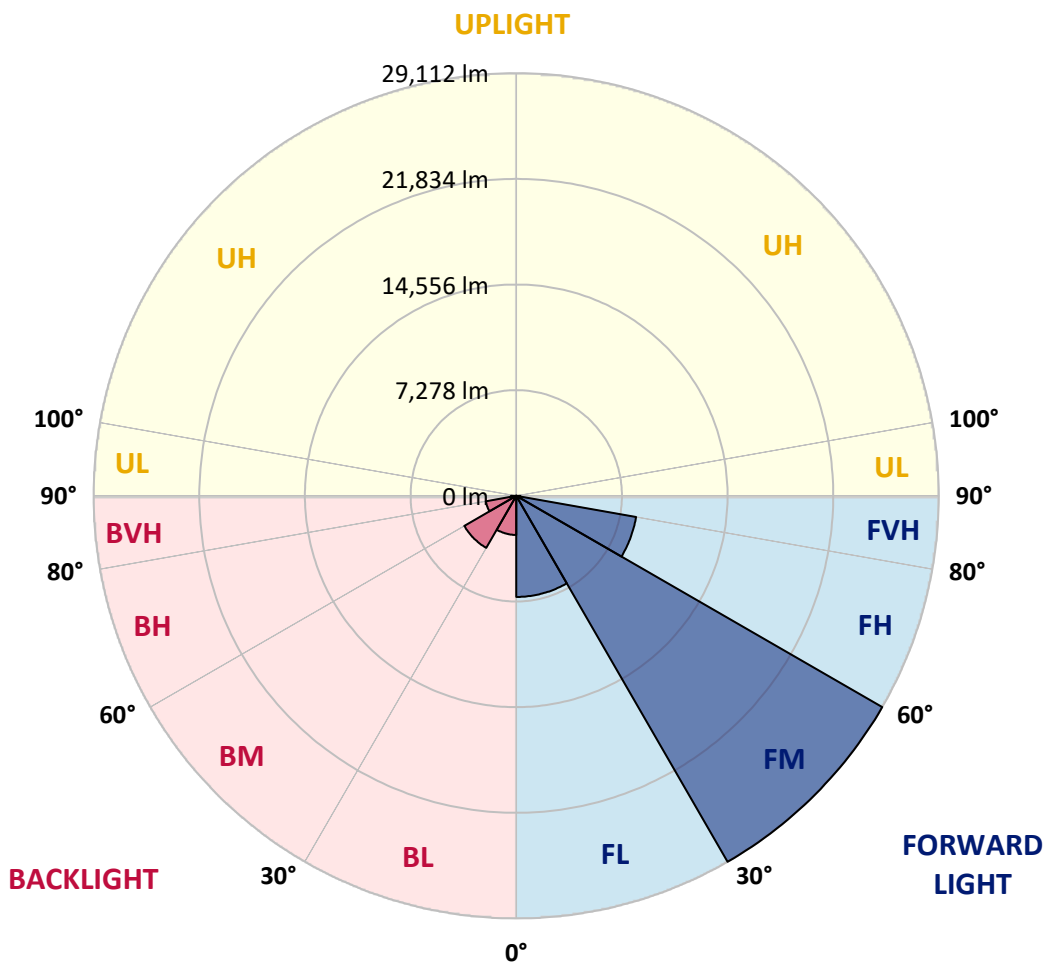
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6963.4	12.9			
FM (30°-60°)	29111.9	53.9			
FH (60°-80°)	8381.8	15.5			G4/12000
FVH (80°-90°)	282.2	0.5			G3/500
BL (0°-30°)	2694.4	5.0	B4/5000		
BM (30°-60°)	4136.1	7.7	B3/5000		
BH (60°-80°)	2129.1	3.9	B3/2500		G3/2500
BVH (80°-90°)	358.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0
2.5°	13767.9	13894.2	13838.5	13645.3	13496.7	13286.8	13052.7	12982.1	12735.0	12458.2	12125.7
5°	15947.1	15883.9	15792.9	15491.9	15174.3	14804.5	14217.6	14124.6	13574.7	12948.7	12287.3
7.5°	17188.1	17182.5	17128.6	16952.1	16662.3	16179.3	15471.5	15361.9	14531.5	13524.6	12499.0
10°	17007.9	16994.9	17084.0	17268.0	17355.3	17255.0	16658.6	16549.0	15529.1	14161.8	12744.3
12.5°	15984.2	15991.7	16134.8	16521.2	17046.9	17678.5	17581.9	17528.1	16563.8	14882.6	13041.6
15°	15187.3	15204.0	15317.3	15653.5	16274.0	17420.3	18143.0	18161.5	17565.3	15677.8	13388.9
17.5°	14838.0	14873.3	14925.3	15161.2	15729.7	16905.7	18276.8	18377.1	18442.1	16502.6	13723.4
20°	14949.5	14982.9	14997.8	15148.3	15614.6	16593.6	18183.8	18364.1	19114.6	17279.1	14057.7
22.5°	15449.3	15469.7	15479.0	15518.0	15880.2	16682.8	18122.5	18312.1	19601.3	17975.8	14310.4
25°	16277.8	16263.0	16203.4	16153.3	16396.6	17035.8	18263.7	18443.9	19997.1	18607.4	14475.8
27.5°	17269.9	17251.2	17136.1	16998.6	17138.0	17585.7	18670.6	18813.6	20351.9	19198.2	14559.3
30°	18460.7	18412.3	18195.0	18031.5	18085.4	18410.5	19341.3	19471.3	20899.9	19868.9	14641.0
32.5°	19837.3	19785.2	19471.3	19200.0	19200.0	19471.3	20032.4	20140.1	21364.4	20626.8	14772.9
35°	21561.3	21496.3	21087.5	20632.4	20504.2	20641.7	20974.3	21050.4	22200.4	21581.7	15012.6
37.5°	23593.7	23506.4	22976.9	22367.6	22087.0	22079.6	22319.2	22475.3	23536.1	22835.7	15419.5
40°	25631.6	25570.3	25107.7	24628.4	24078.5	23902.1	24271.8	24320.1	25282.4	24392.5	15939.7
42.5°	27207.1	27195.9	27110.5	27173.6	26610.7	26254.0	26543.8	26582.8	27415.1	26077.6	16493.3
45°	28039.3	28057.9	28472.2	29390.0	29598.0	29337.9	29481.0	29492.1	29852.5	27777.4	17000.5
47.5°	27372.4	27469.0	28516.8	30569.6	32273.2	33137.0	32899.3	33036.7	32215.6	29237.6	17398.0
50°	24773.4	24892.3	26675.7	30043.9	33521.6	36813.6	36689.1	36657.5	34121.7	30307.6	17613.5
52.5°	21553.9	21646.7	23118.1	27311.1	32605.7	38846.0	39988.5	39825.1	35816.0	31108.4	17654.4
55°	16651.2	16796.1	18206.2	21856.6	28901.4	38069.5	42414.8	42267.9	37359.7	31528.2	17606.1
57°	11837.7	11990.0	13390.8	16680.9	24312.6	35381.2	42656.2	42812.3	38193.9	31598.8	17660.0
57.5°	10563.3	10719.3	12107.0	15302.4	22882.2	34409.6	42448.2	42708.3	38344.4	31587.7	17689.7
60°	5318.8	5378.3	6262.5	8542.0	14464.6	27818.2	39734.0	40404.7	38480.0	31041.5	17817.9
62.5°	3306.8	3264.1	3236.2	3934.8	7037.2	18447.6	34132.8	35424.0	35884.7	29718.8	17507.6
65°	2907.5	2827.5	2521.0	2465.2	3108.0	8960.0	25704.1	27311.1	30339.2	27634.4	16768.2
67.5°	2730.9	2652.9	2307.4	2099.2	2101.1	3552.1	15958.2	17767.7	23634.6	24110.1	15023.8
70°	2548.9	2478.3	2155.0	1909.8	1789.0	1967.3	7341.9	8714.8	15406.5	18951.1	12556.7
72.5°	2314.8	2266.5	1960.0	1707.2	1579.1	1473.2	2810.9	3319.8	8919.2	12727.5	8720.4
75°	2069.5	2025.0	1763.0	1521.5	1365.5	1159.2	1582.8	1705.5	4531.1	6511.5	4293.3
77.5°	1800.2	1774.1	1568.0	1345.1	1220.5	960.4	1120.3	1179.7	1943.2	2792.2	2153.2
80°	1432.3	1482.5	1371.1	1198.2	1083.1	769.1	793.3	832.2	1131.4	1363.6	1222.4
82.5°	932.6	1020.0	1073.8	973.5	891.8	605.6	570.3	587.1	737.5	832.2	531.4
85°	388.3	436.6	705.9	637.2	592.7	442.1	382.7	390.1	457.0	473.7	217.3
87.5°	172.8	183.9	310.2	291.7	250.8	152.3	163.5	178.4	243.4	230.4	83.6
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°	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0	11990.0
2.5°	12001.2	11845.2	11577.6	11282.3	11040.7	10847.5	10652.4	10518.7	10362.6	10279.1	10236.3
5°	12010.4	11704.0	11141.0	10563.3	10046.8	9574.9	9125.3	8779.8	8456.6	8281.9	8233.7
7.5°	12049.5	11588.7	10678.4	9727.3	8809.6	7971.7	7325.2	6920.2	6628.5	6498.5	6461.3
10°	12081.1	11453.2	10106.3	8698.0	7449.7	6600.7	6099.0	5872.4	5772.1	5755.4	5738.6
12.5°	12155.4	11313.8	9504.4	7624.3	6392.6	5805.5	5630.9	5616.0	5643.9	5684.8	5684.8
15°	12272.4	11176.3	8817.0	6702.9	5720.1	5513.8	5549.1	5630.9	5707.0	5770.2	5779.5
17.5°	12357.9	11007.3	8077.5	5965.3	5361.5	5417.2	5543.5	5658.8	5736.7	5798.1	5803.6
20°	12419.2	10745.3	7288.1	5402.4	5155.3	5328.1	5486.0	5588.2	5642.0	5703.4	5712.6
22.5°	12387.6	10394.2	6587.6	4999.2	4988.2	5198.0	5348.5	5471.2	5430.3	5370.8	5409.9
25°	12235.3	9911.2	5866.8	4698.3	4811.6	5023.4	5209.2	5127.4	4989.9	4963.9	4978.8
27.5°	11964.1	9294.4	5199.9	4419.6	4607.2	4861.7	4850.7	4768.9	4720.6	4687.2	4707.6
30°	11672.4	8625.7	4616.6	4176.2	4380.6	4590.6	4547.8	4546.0	4497.7	4443.8	4469.8
32.5°	11384.4	7953.1	4154.0	3975.7	4209.7	4237.6	4330.5	4358.3	4263.6	4150.2	4142.9
35°	11133.6	7317.8	3802.9	3793.5	4003.5	4007.2	4142.9	4103.8	3867.9	3750.9	3750.9
37.5°	10946.0	6684.2	3535.3	3630.1	3732.2	3828.8	3897.6	3736.0	3696.9	3631.9	3630.1
40°	10864.3	6126.9	3368.1	3505.6	3540.9	3663.5	3487.1	3550.2	3568.8	3535.3	3535.3
42.5°	10778.8	5642.0	3223.2	3410.9	3405.3	3388.6	3299.4	3381.1	3455.5	3457.3	3451.8
45°	10693.3	5224.0	3095.1	3208.3	3286.4	3106.2	3122.9	3210.2	3314.3	3351.4	3351.4
47.5°	10598.6	4893.3	2978.0	2994.7	3115.5	2994.7	2981.7	3048.6	3171.2	3230.7	3243.6
50°	10390.5	4596.2	2844.2	2807.1	2840.6	2881.4	2892.5	2924.1	3059.8	3154.5	3176.8
52.5°	10102.5	4330.5	2673.4	2634.3	2634.3	2788.5	2840.6	2849.8	2965.0	3078.3	3100.7
55°	9862.9	4161.4	2496.8	2489.4	2482.0	2690.0	2779.2	2794.1	2874.0	2963.2	2974.2
57°	9879.6	4148.4	2361.2	2368.6	2366.8	2589.7	2721.6	2753.2	2794.1	2870.3	2883.2
57.5°	9888.9	4157.7	2331.5	2335.2	2333.3	2561.8	2704.9	2740.2	2771.8	2851.7	2864.7
60°	10028.2	4181.8	2210.7	2169.9	2179.2	2413.3	2610.2	2654.7	2675.2	2781.0	2797.8
62.5°	9822.1	4074.1	2114.1	2015.7	2015.7	2257.2	2478.3	2548.9	2580.5	2723.5	2751.3
65°	9223.8	3771.3	2000.8	1841.0	1859.6	2101.1	2320.4	2435.5	2483.9	2662.2	2691.9
67.5°	8300.6	3420.2	1880.0	1685.0	1703.6	1937.6	2156.9	2281.4	2357.5	2595.3	2619.4
70°	7098.6	2991.0	1716.6	1519.6	1542.0	1759.3	1963.7	2104.8	2218.2	2532.1	2539.6
72.5°	5233.3	2452.3	1488.1	1337.6	1361.7	1551.2	1768.6	1932.1	2084.4	2374.2	2370.5
75°	3111.7	1917.2	1235.4	1153.7	1170.4	1346.9	1592.1	1790.9	2019.4	2312.9	2348.2
77.5°	1887.5	1443.5	1006.9	966.0	986.5	1166.7	1465.8	1677.5	1991.6	2181.0	2169.9
80°	1140.7	1031.0	804.4	778.4	798.8	997.6	1356.1	1592.1	1740.7	1863.4	1863.4
82.5°	596.4	629.8	590.8	570.3	598.2	810.0	1233.6	1389.6	1538.3	1320.8	1233.6
85°	243.4	328.8	358.6	356.7	373.5	561.1	1064.5	1188.9	992.0	941.9	964.2
87.5°	81.7	139.4	174.7	150.4	157.9	353.0	737.5	574.0	681.8	475.6	451.4
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)