

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: P382686

Luminaire Tested: **GLEON-SA0D-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382686
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-SA0D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73396.6 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

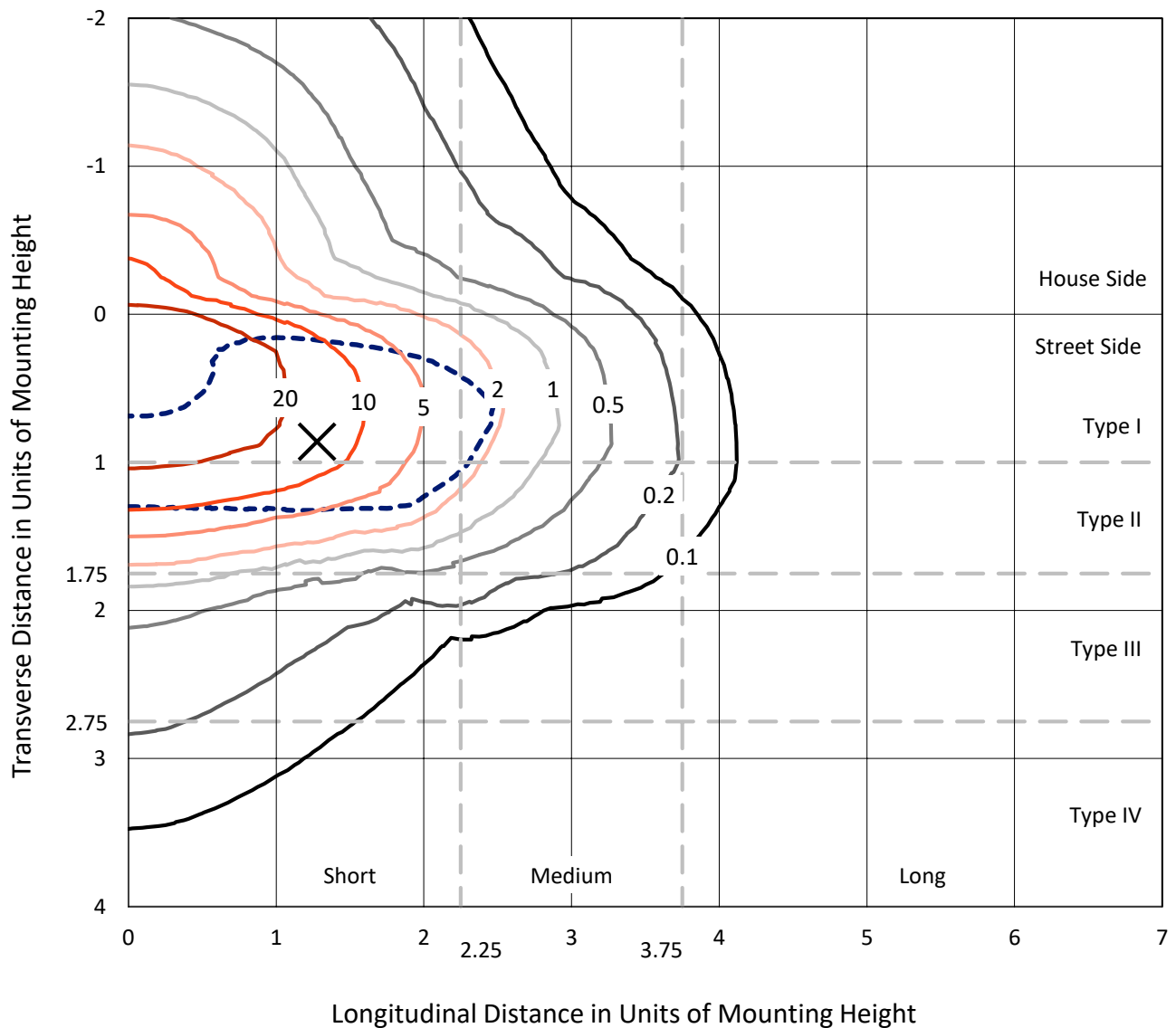
Input Watts (W): 640
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

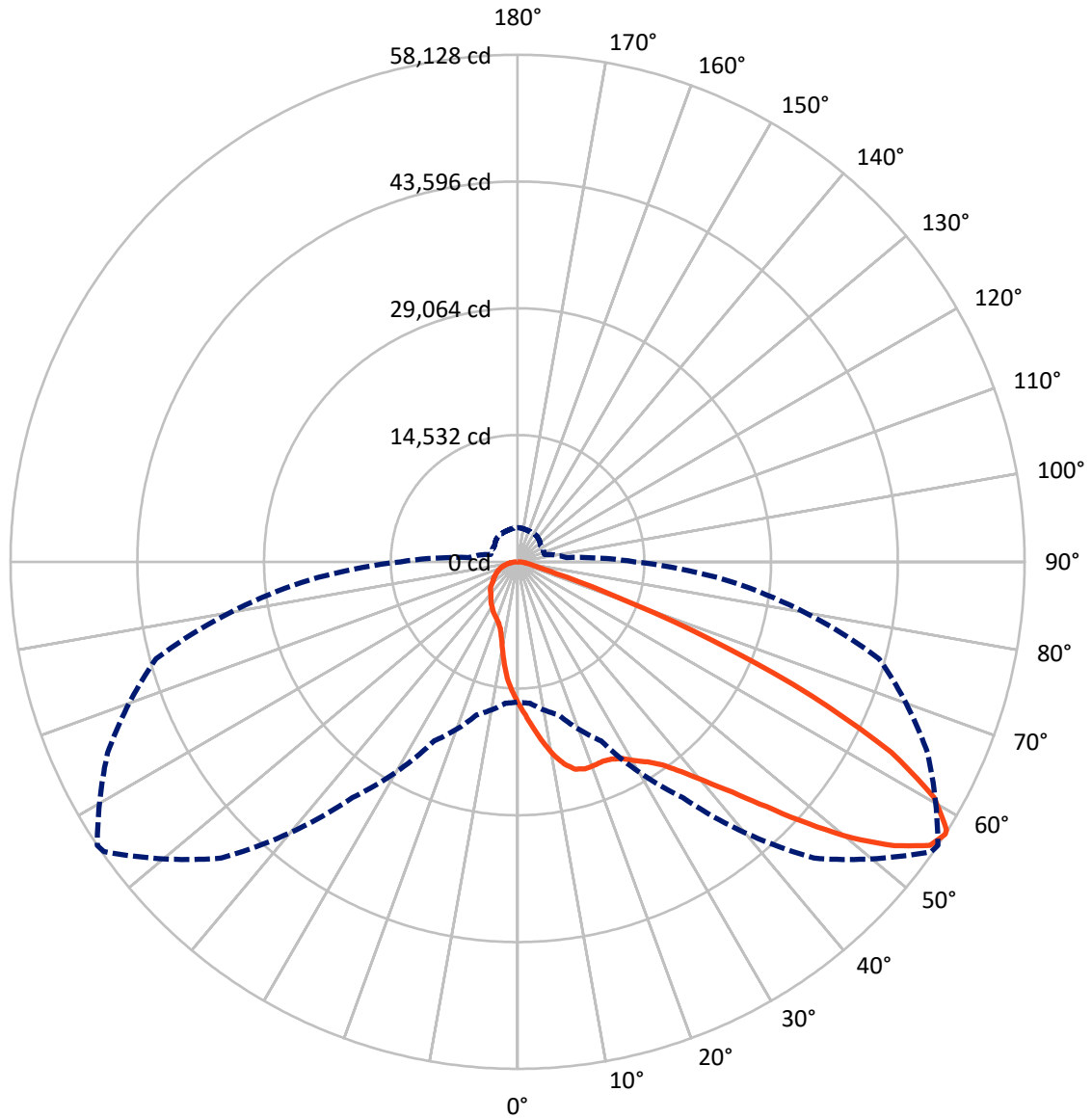
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 36.1 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	12652.0	0.0	12652.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	60744.6	0.0	60744.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	73396.6	0.0	73396.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1555.1	2.1
10°-20°	4396.6	6.0
20°-30°	7161.2	9.8
30°-40°	10705.2	14.6
40°-50°	16237.6	22.1
50°-60°	18199.5	24.8
60°-70°	10749.3	14.6
70°-80°	3521.9	4.8
80°-90°	870.1	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°	73396.6	100.0
0°-180°	73396.6	100.0

Coefficient of Utilization



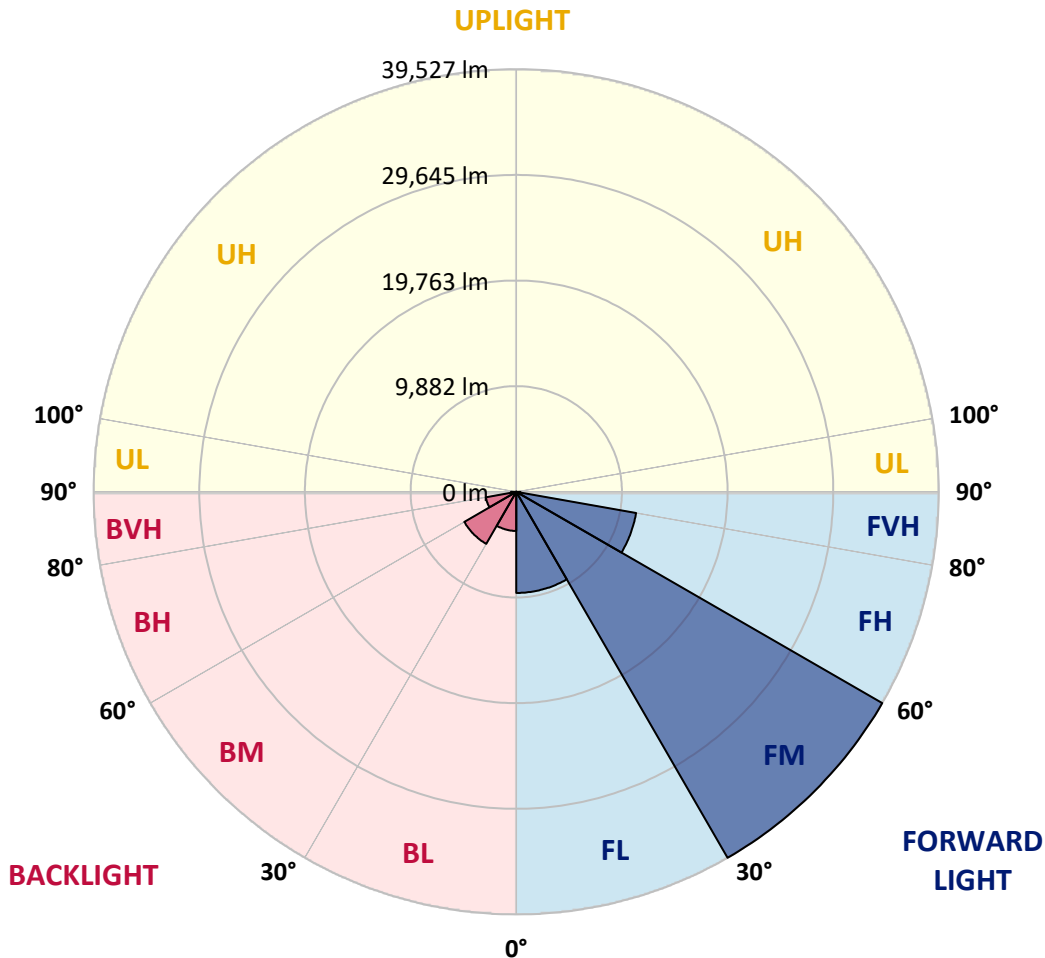
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9454.6	12.9			
FM (30°-60°)	39526.5	53.9			
FH (60°-80°)	11380.4	15.5			G4/12000
FVH (80°-90°)	383.1	0.5			G3/500
BL (0°-30°)	3658.4	5.0	B4/5000		
BM (30°-60°)	5615.8	7.7	B4/8500		
BH (60°-80°)	2890.8	3.9	B4/5000		G4/5000
BVH (80°-90°)	487.0	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°	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4
2.5°	18693.4	18864.9	18789.2	18526.9	18325.1	18040.1	17722.2	17626.4	17290.9	16915.0	16463.6
5°	21652.1	21566.4	21442.7	21034.2	20602.8	20100.8	19303.8	19177.7	18431.0	17581.0	16683.0
7.5°	23337.0	23329.5	23256.4	23016.7	22623.2	21967.4	21006.4	20857.5	19730.1	18362.9	16970.6
10°	23092.4	23074.7	23195.8	23445.6	23564.1	23427.9	22618.2	22469.4	21084.6	19228.1	17303.5
12.5°	21702.5	21712.6	21906.8	22431.5	23145.3	24003.0	23871.8	23798.6	22489.5	20206.8	17707.1
15°	20620.5	20643.2	20797.0	21253.5	22096.0	23652.4	24633.6	24658.8	23849.1	21286.3	18178.8
17.5°	20146.2	20194.2	20264.8	20585.2	21357.0	22953.6	24815.2	24951.4	25039.6	22406.3	18632.8
20°	20297.6	20343.0	20363.2	20567.5	21200.6	22529.9	24689.1	24933.7	25952.7	23460.7	19086.9
22.5°	20976.1	21003.9	21016.5	21069.5	21561.3	22651.0	24605.8	24863.1	26613.7	24406.5	19429.8
25°	22101.1	22080.9	22000.2	21932.1	22262.5	23130.2	24797.5	25042.2	27150.9	25264.1	19654.4
27.5°	23448.1	23422.8	23266.4	23079.7	23268.9	23876.9	25349.9	25544.2	27632.7	26066.3	19767.9
30°	25064.9	24999.3	24704.2	24482.2	24555.4	24996.8	26260.5	26437.0	28376.8	26976.9	19878.9
32.5°	26933.9	26863.3	26437.0	26068.8	26068.8	26437.0	27198.9	27345.1	29007.4	28006.0	20058.0
35°	29274.7	29186.5	28631.6	28013.6	27839.5	28026.2	28477.7	28581.1	30142.5	29302.5	20383.4
37.5°	32034.2	31915.7	31196.8	30369.5	29988.6	29978.5	30303.9	30515.7	31956.0	31005.1	20935.8
40°	34801.3	34718.0	34090.0	33439.2	32692.6	32453.0	32954.9	33020.5	34327.1	33118.8	21642.0
42.5°	36940.2	36925.1	36809.1	36894.9	36130.5	35646.2	36039.8	36092.7	37222.8	35406.6	22393.7
45°	38070.3	38095.5	38658.0	39904.1	40186.6	39833.4	40027.7	40042.8	40532.1	37714.6	23082.3
47.5°	37164.7	37295.9	38718.6	41505.8	43818.8	44991.7	44668.8	44855.5	43740.6	39697.2	23622.1
50°	33635.9	33797.4	36218.9	40791.9	45513.8	49983.5	49814.5	49771.6	46328.6	41150.1	23914.7
52.5°	29264.7	29390.8	31388.5	37081.5	44270.3	52742.9	54294.2	54072.2	48628.9	42237.3	23970.2
55°	22608.1	22804.8	24719.4	29675.8	39240.7	51688.6	57588.5	57389.2	50725.1	42807.3	23904.6
57°	16072.6	16279.4	18181.3	22648.4	33010.4	48038.7	57916.4	58128.3	51857.6	42903.2	23977.8
57.5°	14342.3	14554.1	16438.4	20776.9	31068.1	46719.5	57633.8	57987.0	52062.0	42888.0	24018.1
60°	7221.5	7302.3	8503.0	11597.9	19639.3	37770.2	53948.6	54859.2	52246.0	42146.5	24192.1
62.5°	4489.9	4431.8	4394.0	5342.4	9554.8	25047.3	46343.7	48096.7	48722.3	40350.5	23771.0
65°	3947.5	3839.1	3422.9	3347.2	4219.9	12165.5	34899.7	37081.5	41192.9	37520.4	22767.0
67.5°	3707.9	3601.9	3132.8	2850.3	2852.8	4822.8	21667.2	24124.0	32089.7	32735.4	20398.5
70°	3460.7	3364.8	2926.0	2593.0	2429.0	2671.2	9968.5	11832.5	20918.1	25730.8	17048.8
72.5°	3142.9	3077.3	2661.2	2318.1	2144.0	2000.2	3816.4	4507.5	12109.9	17280.9	11840.1
75°	2809.9	2749.4	2393.7	2065.8	1854.0	1573.9	2149.1	2315.5	6152.1	8840.9	5829.3
77.5°	2444.2	2408.9	2128.9	1826.2	1657.2	1304.1	1521.0	1601.7	2638.4	3791.1	2923.5
80°	1944.8	2012.9	1861.5	1626.9	1470.5	1044.3	1077.1	1130.1	1536.1	1851.5	1659.7
82.5°	1266.3	1384.7	1458.0	1321.8	1210.7	822.3	774.4	797.0	1001.4	1130.1	721.4
85°	527.2	592.7	958.5	865.2	804.7	600.3	519.6	529.7	620.5	643.2	295.1
87.5°	234.6	249.7	421.2	396.0	340.5	206.8	222.0	242.1	330.4	312.8	113.5
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°	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4	16279.4
2.5°	16294.5	16082.7	15719.5	15318.4	14990.5	14728.1	14463.3	14281.7	14069.8	13956.4	13898.3
5°	16307.2	15891.0	15126.7	14342.3	13641.0	13000.3	12390.0	11920.7	11481.9	11244.8	11179.2
7.5°	16360.1	15734.6	14498.6	13207.2	11961.2	10823.6	9945.8	9395.9	8999.9	8823.2	8772.8
10°	16403.1	15550.5	13721.8	11809.8	10114.7	8962.0	8281.0	7973.2	7837.0	7814.3	7791.7
12.5°	16503.9	15361.3	12904.5	10351.8	8679.5	7882.5	7645.3	7625.2	7663.0	7718.5	7718.5
15°	16662.9	15174.6	11971.2	9100.8	7766.4	7486.4	7534.4	7645.3	7748.7	7834.5	7847.2
17.5°	16778.8	14945.1	10967.3	8099.3	7279.6	7355.2	7526.8	7683.1	7789.1	7872.3	7880.0
20°	16862.1	14589.4	9895.3	7335.1	6999.6	7234.2	7448.6	7587.4	7660.5	7743.7	7756.3
22.5°	16819.2	14112.8	8944.3	6787.7	6772.6	7057.6	7262.0	7428.4	7372.9	7292.2	7345.2
25°	16612.4	13456.9	7965.7	6379.1	6532.9	6820.5	7072.8	6961.7	6775.1	6739.8	6760.0
27.5°	16244.1	12619.5	7060.1	6000.8	6255.5	6601.0	6585.9	6474.9	6409.3	6364.0	6391.7
30°	15848.1	11711.4	6268.1	5670.3	5947.7	6232.8	6174.8	6172.2	6106.7	6033.5	6068.8
32.5°	15457.2	10798.3	5640.1	5397.9	5715.7	5753.5	5879.6	5917.5	5788.8	5635.0	5624.9
35°	15116.6	9935.7	5163.3	5150.7	5435.8	5440.8	5624.9	5572.0	5251.6	5092.7	5092.7
37.5°	14861.8	9075.5	4800.1	4928.7	5067.4	5198.6	5291.9	5072.5	5019.6	4931.2	4928.7
40°	14750.9	8318.8	4573.1	4759.7	4807.6	4974.1	4734.5	4820.3	4845.5	4800.1	4800.1
42.5°	14634.9	7660.5	4376.3	4631.1	4623.6	4600.8	4479.7	4590.8	4691.6	4694.2	4686.6
45°	14518.8	7092.9	4202.3	4356.2	4462.1	4217.4	4240.1	4358.7	4499.9	4550.3	4550.3
47.5°	14390.2	6644.0	4043.4	4066.1	4230.1	4066.1	4048.4	4139.2	4305.7	4386.4	4404.1
50°	14107.6	6240.3	3861.7	3811.3	3856.7	3912.2	3927.3	3970.3	4154.3	4283.0	4313.3
52.5°	13716.7	5879.6	3629.7	3576.8	3576.8	3786.1	3856.7	3869.4	4025.7	4179.6	4209.8
55°	13391.3	5650.1	3390.1	3380.0	3369.9	3652.4	3773.5	3793.6	3902.2	4023.2	4038.4
57°	13414.0	5632.5	3205.9	3216.1	3213.5	3516.2	3695.3	3738.2	3793.6	3897.0	3914.7
57.5°	13426.7	5645.1	3165.6	3170.6	3168.1	3478.4	3672.6	3720.5	3763.4	3871.9	3889.5
60°	13615.8	5677.9	3001.6	2946.1	2958.8	3276.5	3544.0	3604.4	3632.2	3776.0	3798.7
62.5°	13335.8	5531.6	2870.5	2736.8	2736.8	3064.7	3364.8	3460.7	3503.6	3697.8	3735.6
65°	12523.6	5120.4	2716.6	2499.7	2524.9	2852.8	3150.5	3306.8	3372.4	3614.6	3654.9
67.5°	11270.0	4643.7	2552.6	2287.8	2313.0	2630.9	2928.5	3097.5	3200.9	3523.8	3556.6
70°	9638.0	4061.0	2330.6	2063.3	2093.6	2388.7	2666.2	2857.9	3011.7	3438.0	3448.1
72.5°	7105.6	3329.5	2020.4	1816.1	1848.9	2106.2	2401.3	2623.2	2830.1	3223.6	3218.6
75°	4224.9	2603.1	1677.3	1566.4	1589.1	1828.7	2161.7	2431.6	2741.8	3140.3	3188.3
77.5°	2562.8	1959.9	1367.1	1311.6	1339.4	1584.1	1990.2	2277.7	2704.0	2961.3	2946.1
80°	1548.7	1399.9	1092.1	1056.8	1084.6	1354.6	1841.3	2161.7	2363.4	2530.0	2530.0
82.5°	809.7	855.1	802.2	774.4	812.2	1099.8	1674.8	1886.8	2088.5	1793.4	1674.8
85°	330.4	446.5	486.8	484.3	507.0	761.7	1445.3	1614.3	1346.9	1278.8	1309.1
87.5°	110.9	189.2	237.1	204.3	214.4	479.3	1001.4	779.4	925.7	645.7	613.0
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)