

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: P193618

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31031 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 323
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: 25 FT

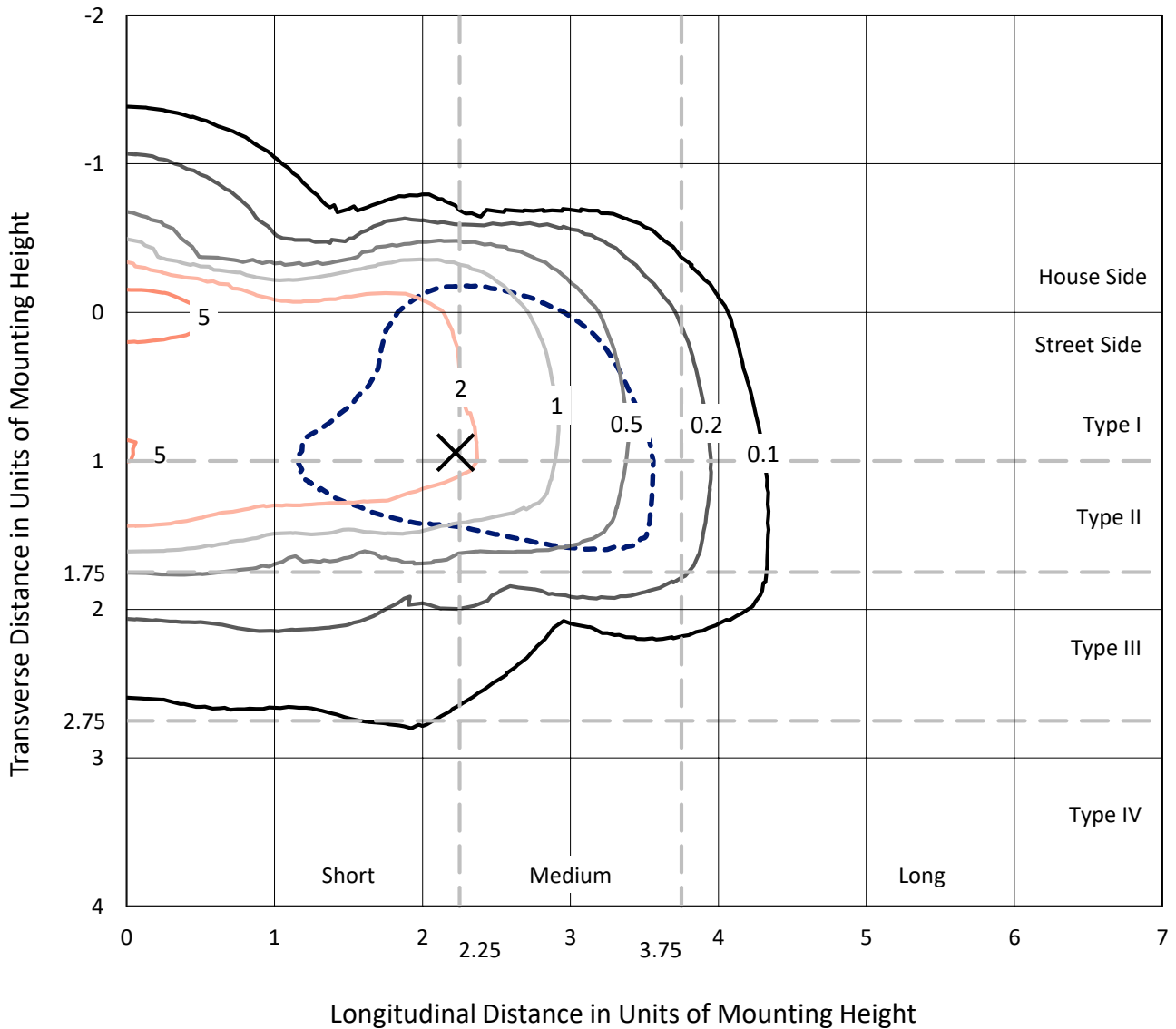


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Iso-Footcandle Lines of Horizontal Illumination

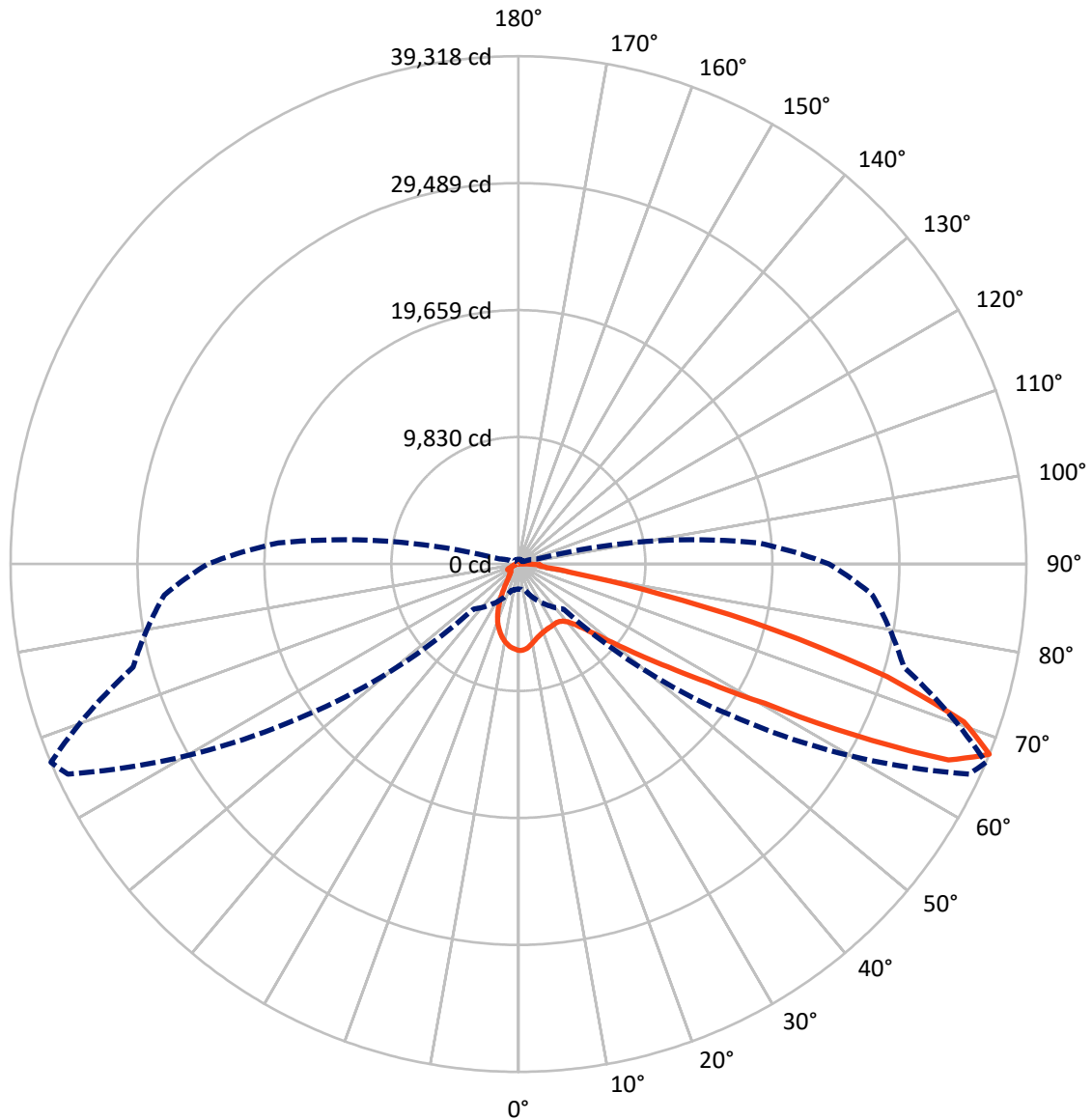
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5141.5	0.0	5141.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	25889.5	0.0	25889.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	31031.0	0.0	31031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.0	1.8
10°-20°	1321.3	4.3
20°-30°	1791.0	5.8
30°-40°	2546.2	8.2
40°-50°	4259.8	13.7
50°-60°	6739.0	21.7
60°-70°	8584.8	27.7
70°-80°	4496.7	14.5
80°-90°	721.2	2.3
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°	31031.0	100.0
0°-180°	31031.0	100.0

Coefficient of Utilization



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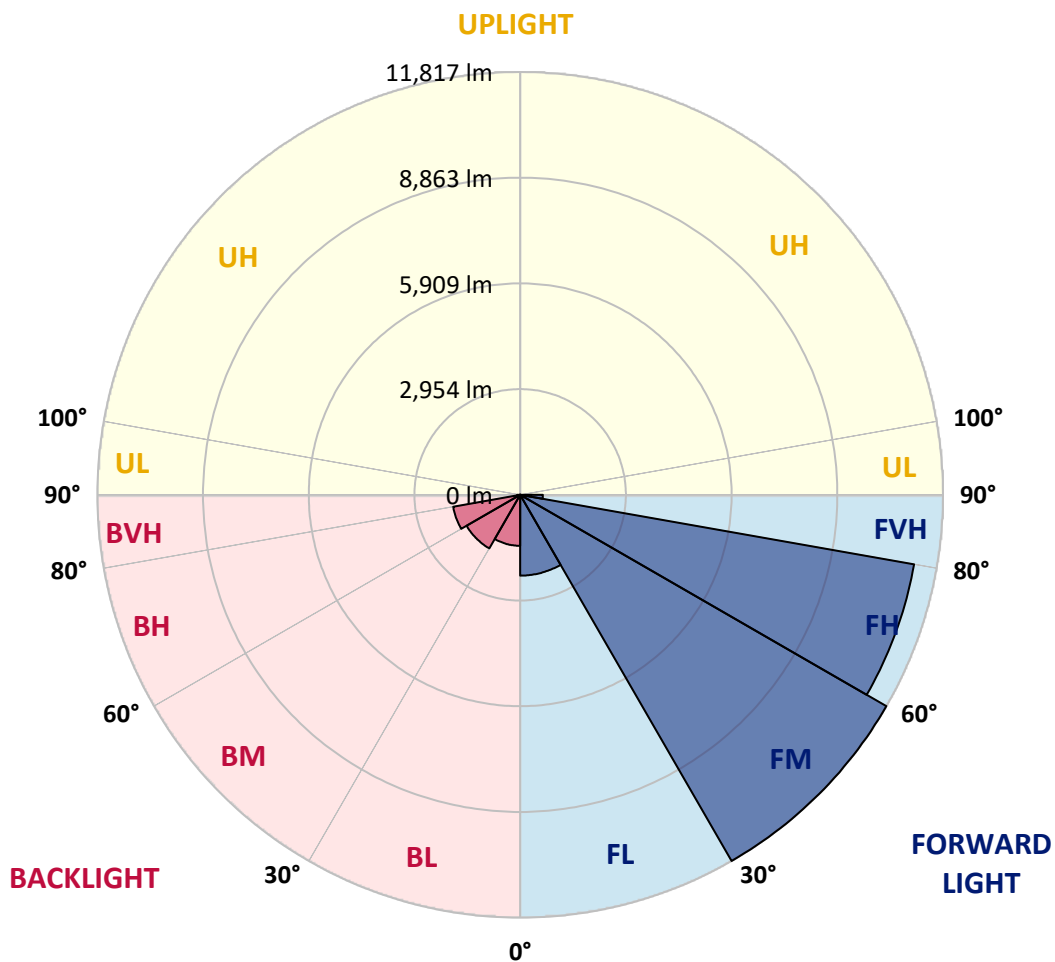
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2258.3	7.3			
FM	(30°-60°)	11817.2	38.1			
FH	(60°-80°)	11179.8	36.0			G4/12000
FVH	(80°-90°)	634.1	2.0			G4/750
BL	(0°-30°)	1425.1	4.6	B3/2500		
BM	(30°-60°)	1727.7	5.6	B2/2500		
BH	(60°-80°)	1901.7	6.1	B3/2500		G3/2500
BVH	(80°-90°)	87.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3
2.5°	6417.9	6428.6	6462.2	6483.7	6580.1	6621.4	6650.5	6679.5	6684.1	6697.9	6684.1
5°	5744.6	5767.5	5830.3	5900.6	6087.3	6234.2	6388.8	6549.5	6578.5	6682.6	6711.7
7.5°	5222.7	5216.6	5268.6	5352.8	5544.1	5747.6	6018.5	6338.3	6401.0	6635.2	6748.4
10°	4841.7	4837.1	4892.2	4979.4	5161.5	5354.3	5660.4	6098.0	6186.8	6560.2	6783.6
12.5°	4560.1	4561.7	4616.8	4713.2	4898.3	5092.7	5403.3	5865.4	5978.7	6473.0	6820.3
15°	4373.5	4385.7	4430.1	4532.6	4713.2	4907.5	5212.0	5691.0	5818.0	6404.1	6861.6
17.5°	4310.7	4330.6	4345.9	4420.9	4575.4	4769.8	5068.2	5562.5	5697.1	6356.7	6898.4
20°	4368.9	4391.8	4362.7	4388.8	4486.7	4658.1	4954.9	5461.5	5599.2	6303.1	6903.0
22.5°	4618.3	4639.7	4554.0	4479.0	4472.9	4577.0	4861.6	5381.9	5524.2	6263.3	6904.5
25°	5057.5	5071.2	4927.4	4753.0	4583.1	4547.9	4795.8	5326.8	5478.3	6228.1	6875.4
27.5°	5596.1	5606.8	5441.6	5184.5	4843.2	4616.8	4772.8	5294.7	5452.3	6197.5	6826.4
30°	6251.1	6301.6	6079.7	5755.3	5257.9	4820.3	4818.8	5277.8	5423.2	6145.5	6730.0
32.5°	6921.3	6942.7	6789.7	6460.7	5816.5	5178.4	4947.3	5290.1	5415.6	6082.7	6607.6
35°	7600.7	7628.3	7528.8	7264.1	6580.1	5703.2	5198.3	5362.0	5463.0	6061.3	6521.9
37.5°	8480.6	8517.4	8379.6	8073.6	7508.9	6414.8	5616.0	5542.6	5608.4	6122.5	6495.9
40°	9871.6	9854.8	9452.4	8996.3	8525.0	7325.3	6212.8	5848.6	5886.9	6319.9	6575.5
42.5°	11490.6	11449.3	10756.1	10040.0	9642.1	8427.1	7002.4	6379.6	6372.0	6708.6	6855.5
45°	12782.2	12748.5	12124.2	11241.2	10922.9	9681.9	8023.1	7170.7	7114.1	7325.3	7372.7
47.5°	13481.5	13483.0	13123.4	12402.7	12395.0	11276.4	9334.5	8315.4	8217.4	8316.9	8266.4
50°	13236.7	13268.8	13230.5	13001.0	13738.6	13366.7	11046.9	9911.4	9714.0	9812.0	9617.6
52.5°	12052.2	12093.6	12320.0	12672.0	14303.2	15893.2	13562.6	11894.6	11665.1	11629.9	11414.1
55°	9952.7	10003.2	10465.4	11421.8	13833.5	17590.2	17532.1	14422.6	14056.9	13724.8	13633.0
57.5°	6860.1	6944.3	7688.0	9108.0	12313.9	18102.8	22259.0	18026.3	17282.6	16122.7	16144.1
60°	3866.9	3964.9	4841.7	6131.7	9247.3	17545.8	25855.1	23484.7	21914.7	18930.7	19089.9
62.5°	2459.1	2564.7	3230.4	4260.2	5548.7	14546.6	27328.7	31073.2	29079.3	22392.1	22548.2
65°	1990.9	2036.8	2350.5	3516.5	4029.1	8763.7	26210.1	37324.3	36580.6	26785.5	26057.1
67.5°	1943.4	1958.7	2120.9	2951.9	3863.9	4925.9	20906.3	38493.4	39318.2	30888.1	27518.5
70°	1920.5	1974.0	2390.2	2817.2	3700.1	4154.6	12563.3	35289.1	36591.3	31960.8	25573.5
72.5°	931.9	928.9	1202.8	2547.9	4168.4	4309.2	6454.6	28552.9	29859.8	27689.9	21014.9
75°	751.4	687.1	656.5	933.5	4007.7	4450.0	4113.3	19646.9	20592.6	18565.0	12918.4
77.5°	713.1	636.6	583.0	584.6	1694.0	4719.3	3484.4	10874.0	11149.4	8385.8	3539.5
80°	590.7	520.3	482.0	543.2	820.2	4494.3	3767.5	4921.3	4515.8	2059.7	1178.3
82.5°	410.1	373.4	362.7	456.0	656.5	3202.8	4381.1	2644.3	2217.3	1031.4	726.9
85°	261.7	223.4	247.9	332.1	511.1	1478.2	4512.7	2061.2	1638.9	654.9	410.1
87.5°	120.9	97.9	122.4	183.6	333.6	509.6	4293.9	2315.3	1687.9	345.8	258.6
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°	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3	6693.3
2.5°	6696.4	6667.3	6644.3	6601.5	6554.1	6508.2	6466.8	6414.8	6399.5	6385.7	6407.2
5°	6717.8	6688.7	6604.6	6473.0	6327.6	6191.4	6055.2	5938.9	5867.0	5827.2	5850.1
7.5°	6749.9	6708.6	6534.2	6292.4	6030.7	5792.0	5545.6	5348.2	5202.8	5134.0	5153.9
10°	6779.0	6699.4	6414.8	6052.1	5669.6	5314.6	4925.9	4604.5	4365.8	4240.3	4270.9
12.5°	6791.2	6664.2	6248.0	5752.2	5227.3	4707.0	4134.7	3654.2	3311.5	3186.0	3160.0
15°	6803.5	6624.4	6064.4	5411.0	4693.3	3957.2	3155.4	2580.0	2295.4	2232.6	2218.9
17.5°	6806.5	6555.6	5856.3	5040.6	4067.4	3065.1	2157.7	1791.9	1793.5	1894.4	1906.7
20°	6774.4	6453.1	5603.8	4580.0	3317.6	2119.4	1481.3	1418.5	1649.6	1902.1	1932.7
22.5°	6701.0	6316.9	5317.6	4042.9	2459.1	1395.6	1146.2	1215.0	1513.4	1822.5	1857.7
25°	6607.6	6151.6	4979.4	3420.1	1628.2	997.7	961.0	1045.2	1247.2	1453.7	1473.6
27.5°	6480.6	5955.7	4599.9	2707.0	1057.4	821.7	846.2	902.8	985.5	1077.3	1086.5
30°	6316.9	5721.6	4194.4	1974.0	798.8	739.1	774.3	804.9	840.1	892.1	896.7
32.5°	6128.6	5496.7	3778.2	1363.5	708.5	696.3	723.8	739.1	766.7	798.8	801.9
35°	5971.0	5282.4	3346.7	964.1	670.2	664.1	682.5	688.6	714.6	749.8	752.9
37.5°	5880.7	5108.0	2901.4	777.4	644.2	635.1	645.8	645.8	682.5	734.5	742.2
40°	5886.9	5011.6	2456.1	702.4	622.8	610.6	612.1	612.1	659.5	716.2	720.7
42.5°	6053.7	5036.1	2061.2	673.3	606.0	592.2	584.6	589.1	628.9	665.7	668.7
45°	6445.4	5209.0	1690.9	654.9	589.1	584.6	567.7	566.2	581.5	598.3	598.3
47.5°	7088.1	5550.2	1440.0	642.7	575.4	573.8	554.0	534.1	532.5	538.6	538.6
50°	8133.3	6137.8	1271.6	628.9	566.2	554.0	531.0	500.4	489.7	494.3	494.3
52.5°	9700.3	7186.1	1207.4	610.6	546.3	526.4	500.4	469.8	460.6	462.1	462.1
55°	11755.4	8795.9	1198.2	589.1	524.9	492.7	471.3	448.4	437.7	440.7	440.7
57.5°	14266.5	11022.4	1361.9	555.5	495.8	459.1	446.8	431.5	423.9	428.5	426.9
60°	17319.4	13936.0	2019.9	520.3	466.7	428.5	428.5	416.2	410.1	414.7	413.2
62.5°	20835.9	17282.6	2840.1	494.3	436.1	404.0	410.1	404.0	397.9	400.9	399.4
65°	23954.5	19463.2	2659.6	474.4	405.5	381.0	391.7	388.7	384.1	387.2	385.6
67.5°	24044.8	18655.3	1493.5	453.0	376.4	358.1	373.4	371.9	368.8	371.9	370.3
70°	21458.7	15752.4	841.6	413.2	345.8	330.5	352.0	350.4	347.4	353.5	352.0
72.5°	17192.4	11431.0	615.2	364.2	315.2	301.5	325.9	324.4	324.4	333.6	329.0
75°	9893.1	5882.3	491.2	312.2	283.1	272.4	293.8	295.3	298.4	310.6	301.5
77.5°	2820.2	1833.2	400.9	264.7	243.3	238.7	260.1	263.2	264.7	278.5	266.3
80°	1048.2	844.7	330.5	221.9	198.9	200.5	220.4	224.9	226.5	240.2	224.9
82.5°	668.7	557.0	267.8	171.4	156.1	154.6	179.0	185.2	185.2	186.7	177.5
85°	390.2	333.6	202.0	124.0	110.2	105.6	133.1	143.8	139.3	136.2	130.1
87.5°	261.7	229.5	124.0	68.9	59.7	56.6	78.0	85.7	82.6	78.0	73.5
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)