

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: P191264

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL4-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37961.7 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

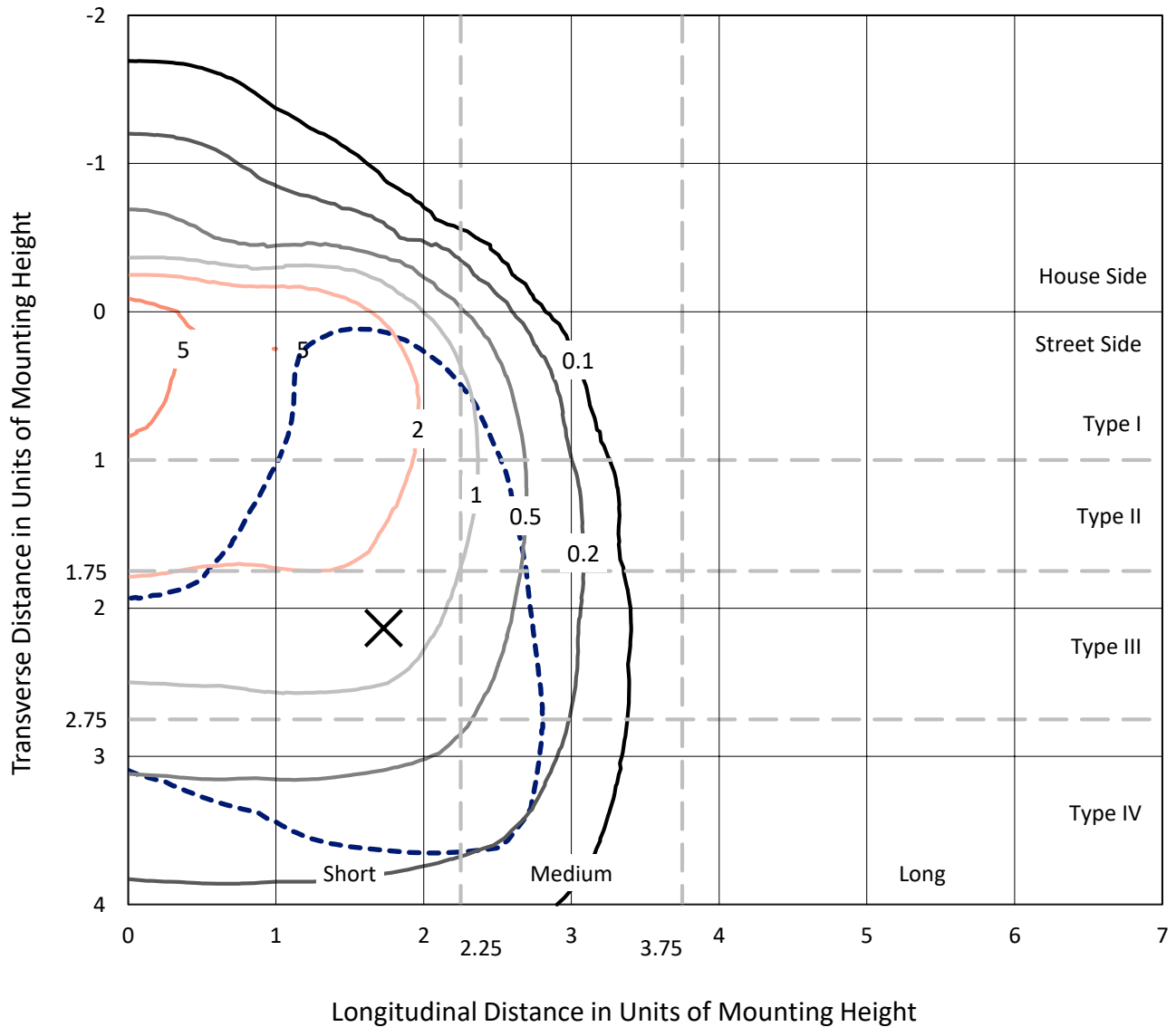
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191264
 CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-1200

Iso-Footcandle Lines of Horizontal Illumination

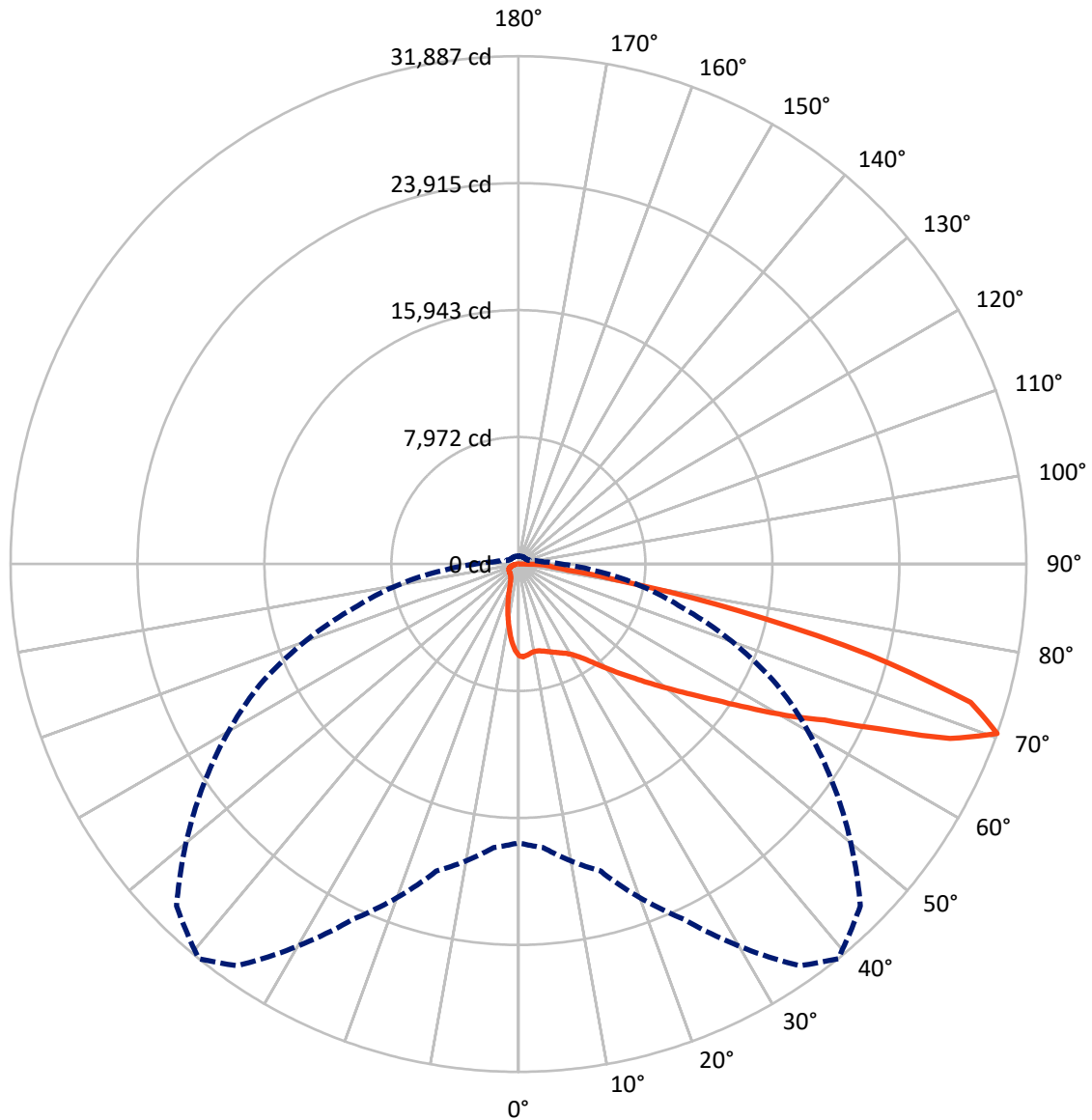
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P191264
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4317.5	0.0	4317.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	33644.2	0.0	33644.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	37961.7	0.0	37961.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.6	1.3
10°-20°	1236.3	3.3
20°-30°	1924.9	5.1
30°-40°	2998.7	7.9
40°-50°	5034.3	13.3
50°-60°	7997.4	21.1
60°-70°	10667.6	28.1
70°-80°	6441.9	17.0
80°-90°	1165.9	3.1
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°	37961.7	100.0
0°-180°	37961.7	100.0



REPORT NUMBER: P191264

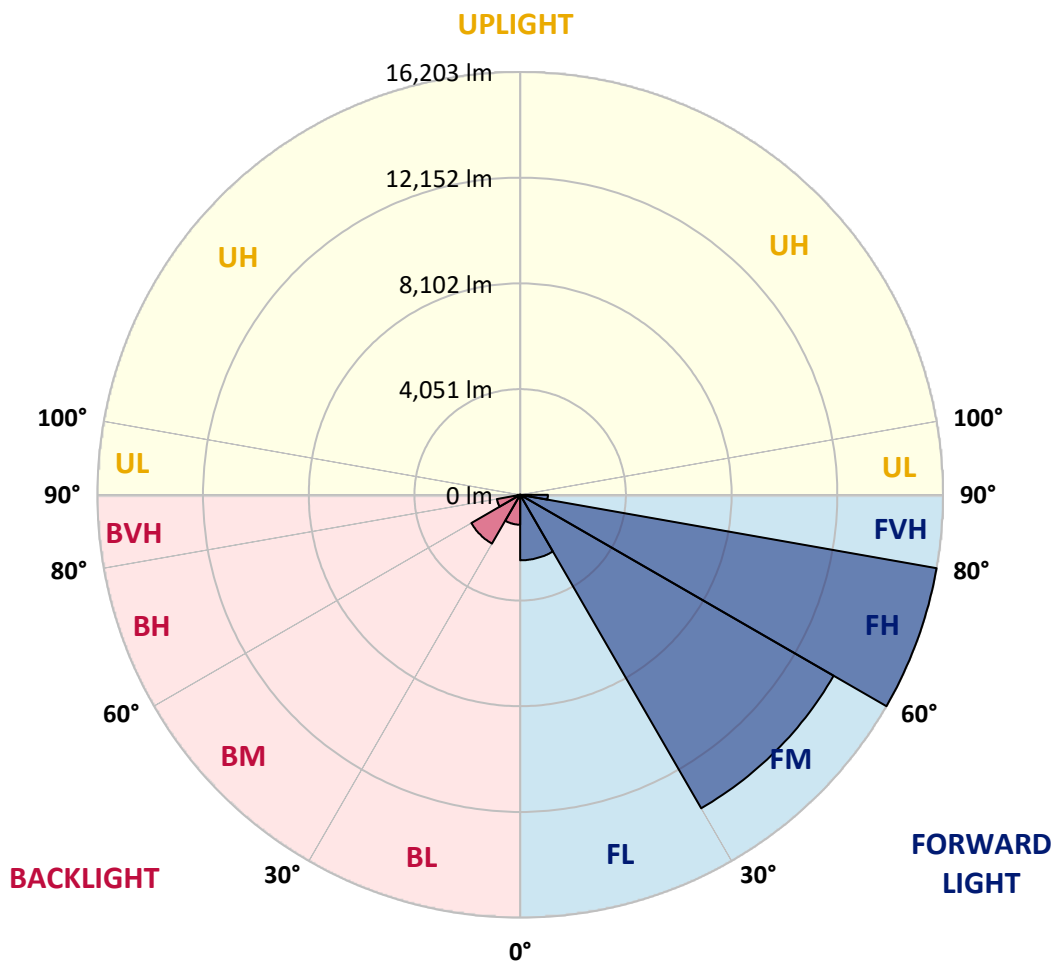
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2510.4	6.6			
FM	(30°-60°)	13869.7	36.5			
FH	(60°-80°)	16203.2	42.7			G5
FVH	(80°-90°)	1060.8	2.8			G5
BL	(0°-30°)	1145.4	3.0	B3/2500		
BM	(30°-60°)	2160.7	5.7	B2/2500		
BH	(60°-80°)	906.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	105.1	0.3			G2/225
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





REPORT NUMBER: P191264

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2
2.5°	5875.1	5873.2	5857.7	5846.2	5836.5	5832.7	5840.3	5811.4	5786.3	5755.4	5722.7
5°	5830.7	5828.8	5803.7	5780.6	5757.4	5749.7	5747.8	5695.6	5664.7	5618.5	5556.7
7.5°	5782.4	5772.8	5740.0	5701.4	5660.9	5641.6	5622.2	5554.7	5519.9	5473.7	5402.2
10°	5732.3	5720.8	5689.9	5651.2	5612.6	5583.7	5550.8	5485.3	5448.5	5413.9	5330.8
12.5°	5680.1	5670.5	5662.9	5645.5	5618.5	5593.3	5568.2	5512.3	5473.7	5433.1	5336.6
15°	5672.5	5668.6	5686.0	5697.5	5682.1	5666.6	5639.6	5591.4	5550.8	5510.3	5384.9
17.5°	5734.3	5732.3	5776.7	5807.6	5799.8	5772.8	5736.2	5682.1	5649.3	5614.6	5458.3
20°	5869.3	5879.0	5933.0	5973.5	5935.0	5896.4	5836.5	5761.3	5743.9	5728.4	5533.4
22.5°	6124.1	6133.7	6172.4	6187.8	6087.4	6031.4	5948.5	5852.0	5840.3	5852.0	5624.2
25°	6521.7	6512.0	6506.3	6448.4	6265.0	6178.1	6072.0	5971.6	5977.4	6029.5	5751.6
27.5°	7048.6	6996.5	6915.5	6741.8	6450.3	6353.8	6224.5	6131.8	6168.5	6268.8	5942.6
30°	7594.8	7536.9	7349.7	7065.9	6693.5	6587.3	6442.5	6338.3	6434.9	6593.1	6197.4
32.5°	8100.4	8092.8	7818.7	7453.9	7029.3	6936.6	6791.9	6674.1	6830.5	7071.8	6579.6
35°	8652.5	8669.8	8341.8	7903.6	7482.9	7386.3	7282.2	7193.4	7401.8	7733.8	7133.5
37.5°	9243.1	9277.9	8889.9	8395.8	8000.1	7959.6	7897.8	7859.2	8181.6	8640.9	7907.5
40°	10032.5	9997.7	9459.2	8951.6	8635.1	8633.2	8613.9	8660.2	9196.7	9826.0	8901.4
42.5°	10877.9	10775.6	10063.4	9548.0	9331.9	9397.4	9436.1	9625.3	10418.4	11265.8	10113.5
45°	11788.8	11559.1	10690.7	10179.2	10105.8	10244.8	10376.0	10787.1	11856.4	12904.4	11441.4
47.5°	12516.5	12294.5	11339.1	10841.1	11001.3	11211.7	11464.6	12115.0	13466.0	14597.1	12751.9
50°	13089.7	12944.9	11993.4	11613.3	11987.7	12311.9	12724.9	13618.5	15141.4	16245.4	13965.9
52.5°	13645.6	13537.5	12653.5	12404.5	13145.6	13593.5	14155.1	15232.0	16859.2	17866.7	14986.9
55°	14147.4	14070.2	13363.7	13390.8	14508.3	15091.2	15797.6	17069.5	18731.3	19312.2	15851.6
57.5°	14712.9	14614.5	14174.4	14628.0	16258.9	17015.5	17934.2	19134.7	20487.7	20597.6	16509.8
60°	15282.3	15197.4	15073.8	16056.2	18482.3	19277.5	20147.9	21136.1	22269.1	21595.5	16471.1
62.5°	15776.4	15786.0	16004.1	17555.9	20659.4	21580.1	22641.6	23618.2	23880.7	21769.2	15253.3
65°	16614.1	16766.5	17416.9	19678.9	23724.4	24955.7	26258.5	26102.2	24326.6	20146.0	12641.9
67.5°	17609.9	17878.2	19196.4	22508.4	27598.0	29232.8	29736.6	26663.8	22541.2	16376.6	9011.5
70°	17509.5	17878.2	19964.6	24618.0	30790.3	31886.6	30358.0	24131.6	17899.4	10698.3	4786.6
72.5°	15548.6	16075.5	18399.3	23651.0	29784.7	29688.3	26355.0	17990.1	10634.7	4296.3	1870.3
75°	11850.6	12383.3	14382.9	18684.9	23541.0	22730.4	18700.4	9937.9	4035.7	1706.2	1179.3
77.5°	6816.9	7230.0	8774.1	11458.8	14934.9	14103.0	10408.8	4419.9	1964.8	1188.9	920.7
80°	3806.1	4035.7	4973.8	5813.3	7318.8	6708.9	4657.3	2746.5	1466.8	862.8	710.2
82.5°	3009.0	3213.6	4022.2	3667.1	3342.9	3084.2	2675.1	2445.4	1171.6	544.3	424.6
85°	2628.8	2823.7	3404.6	2887.4	2283.2	2094.1	2173.3	2406.8	911.0	328.1	362.8
87.5°	2435.7	2696.3	3034.1	2225.3	1777.6	1574.9	2005.3	2638.4	293.4	204.6	146.7
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°	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2	5763.2
2.5°	5693.6	5662.9	5612.6	5568.2	5498.8	5462.0	5421.5	5392.6	5369.5	5350.1	5381.0
5°	5518.1	5460.2	5354.0	5240.2	5105.0	4998.9	4910.1	4827.1	4769.2	4730.6	4757.6
7.5°	5352.1	5257.5	5091.5	4885.0	4653.4	4456.5	4294.3	4151.5	4053.1	3989.4	4014.6
10°	5257.5	5139.7	4883.1	4558.8	4217.2	3910.3	3655.5	3435.5	3283.1	3196.2	3209.7
12.5°	5234.3	5081.8	4726.7	4280.8	3813.8	3387.3	3028.2	2723.3	2509.1	2397.2	2401.0
15°	5251.7	5056.8	4580.1	4014.6	3423.9	2885.4	2437.7	2067.1	1818.1	1690.7	1688.8
17.5°	5280.7	5037.5	4425.6	3726.9	3028.2	2402.9	1903.0	1540.2	1320.1	1217.8	1210.2
20°	5311.6	5006.6	4251.9	3416.2	2617.2	1955.2	1490.0	1206.3	1067.3	1011.4	1007.5
22.5°	5356.0	4979.5	4072.5	3088.1	2213.8	1592.3	1225.6	1034.5	961.2	932.2	928.3
25°	5427.4	4966.0	3881.4	2746.5	1850.9	1331.8	1067.3	949.6	907.2	887.8	885.9
27.5°	5547.1	4985.4	3701.9	2414.5	1555.6	1156.1	978.6	907.2	876.3	858.9	856.9
30°	5701.4	5045.2	3512.7	2099.9	1325.9	1036.5	924.5	878.2	853.0	835.8	835.8
32.5°	5958.1	5145.5	3314.0	1827.8	1161.9	953.5	883.9	853.0	831.9	818.4	816.4
35°	6336.4	5334.7	3128.6	1601.9	1044.1	893.6	849.3	826.0	810.6	802.9	802.9
37.5°	6886.5	5633.9	2964.6	1439.8	972.7	853.0	816.4	799.0	789.4	789.4	789.4
40°	7625.7	6046.9	2831.4	1331.8	932.2	824.1	791.4	777.9	772.0	774.0	774.0
42.5°	8538.6	6583.4	2742.6	1256.5	912.9	806.8	774.0	762.4	756.6	754.6	756.6
45°	9578.9	7193.4	2733.0	1200.5	893.6	795.1	762.4	750.8	739.2	731.5	731.5
47.5°	10590.3	7812.9	2812.1	1181.2	872.4	781.6	752.7	741.1	723.7	706.4	706.4
50°	11483.9	8339.8	2918.3	1188.9	864.7	762.4	737.2	731.5	704.5	685.2	683.2
52.5°	12194.2	8745.1	3005.1	1212.1	872.4	748.9	718.0	720.0	691.0	669.7	667.8
55°	12763.6	9011.5	2981.9	1235.2	889.8	741.1	700.6	704.5	681.3	660.1	660.1
57.5°	13012.5	8913.1	2725.2	1216.0	903.3	743.1	687.1	702.6	683.2	663.9	663.9
60°	12477.9	8038.8	2244.7	1131.0	885.9	737.2	681.3	710.2	708.3	689.1	687.1
62.5°	10860.5	6473.4	1741.0	1005.6	826.0	708.3	665.8	708.3	729.6	723.7	721.8
65°	8370.7	4611.0	1329.8	870.4	745.0	660.1	625.3	663.9	692.8	700.6	698.7
67.5°	5433.1	2825.6	1024.9	743.1	654.3	604.2	573.3	590.5	596.4	596.4	592.5
70°	2671.2	1520.9	816.4	625.3	561.6	544.3	526.9	517.3	507.6	499.9	499.9
72.5°	1318.3	994.0	671.7	528.9	484.5	476.7	472.9	461.2	453.6	444.0	440.1
75°	974.7	808.7	571.3	445.8	416.9	409.2	416.9	407.2	405.3	397.6	393.7
77.5°	801.0	689.1	492.1	382.2	357.1	343.5	355.2	357.1	359.0	347.4	343.5
80°	650.4	582.9	411.1	316.5	293.4	283.8	291.4	306.9	310.8	293.4	285.6
82.5°	469.0	476.7	331.9	247.0	227.7	220.0	235.5	254.8	258.6	233.5	227.7
85°	393.7	397.6	254.8	175.6	156.3	144.7	169.8	189.1	202.6	177.6	171.8
87.5°	164.1	233.5	146.7	98.4	86.8	75.3	90.7	100.4	121.6	111.9	110.0
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)