

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: P269406

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269406
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-SL4-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 32241.7 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 382
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: 25 FT

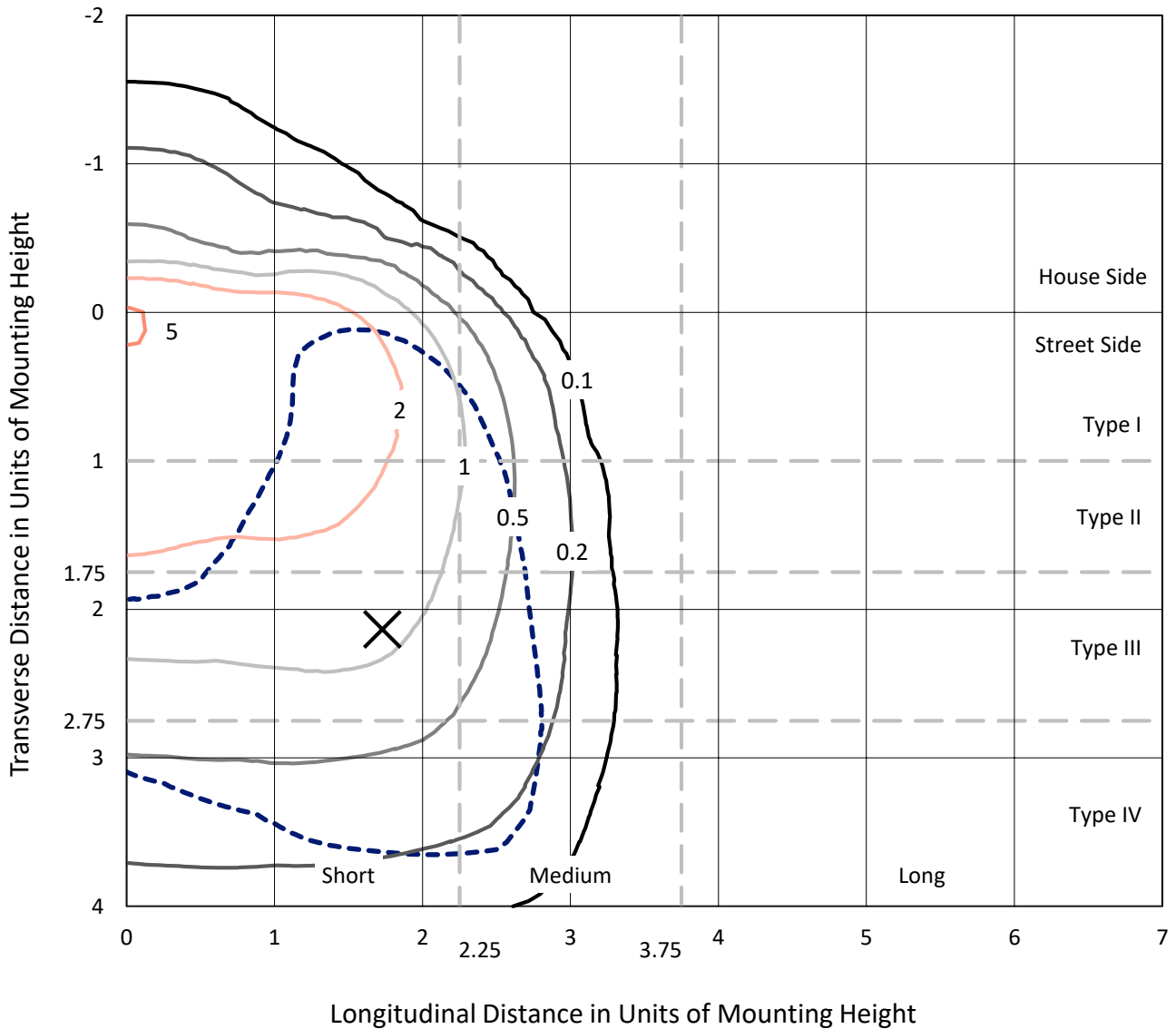


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

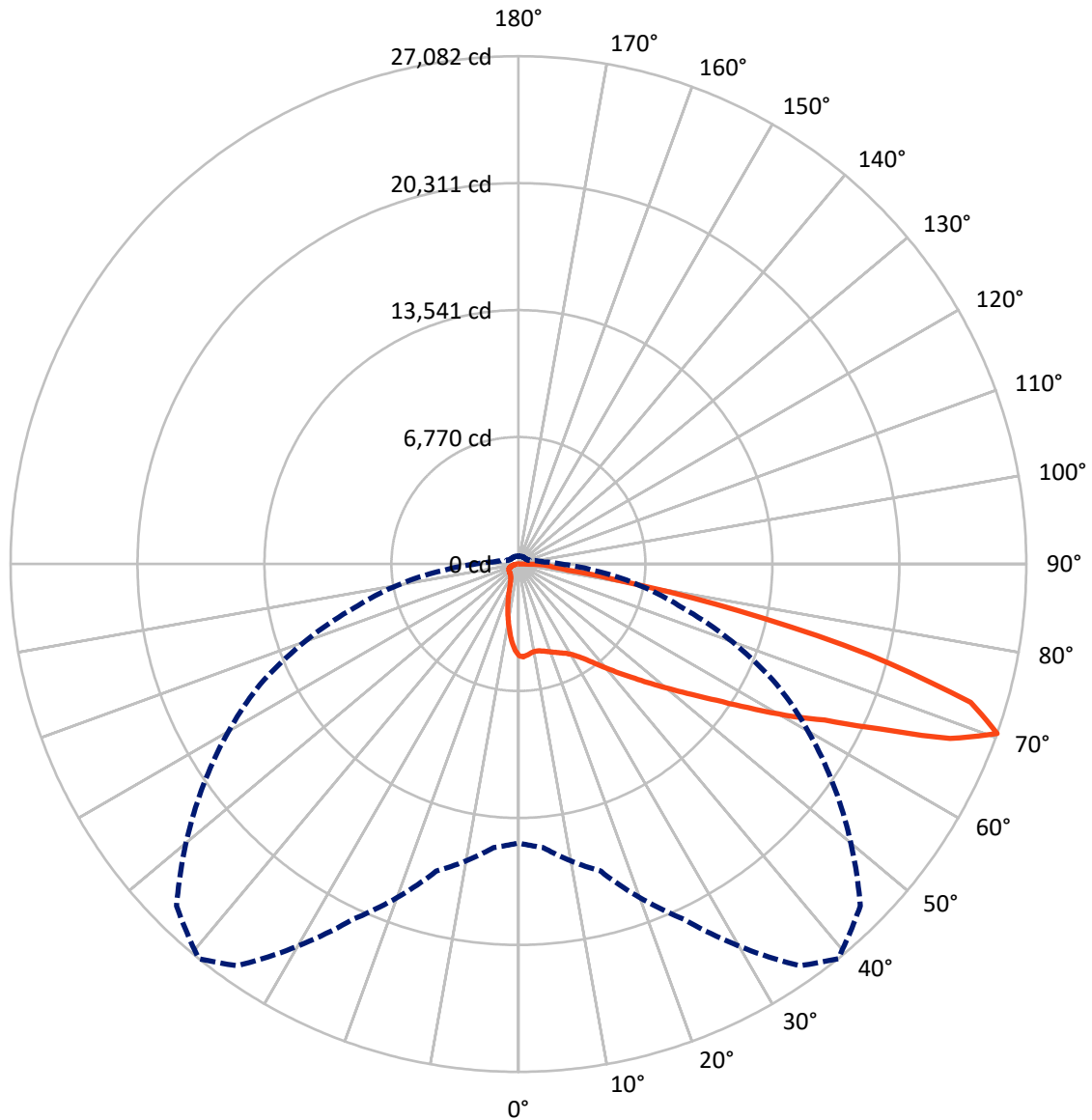


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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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	3667.0	0.0	3667.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	28574.7	0.0	28574.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	32241.7	0.0	32241.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.1	1.3
10°-20°	1050.0	3.3
20°-30°	1634.9	5.1
30°-40°	2546.9	7.9
40°-50°	4275.7	13.3
50°-60°	6792.4	21.1
60°-70°	9060.3	28.1
70°-80°	5471.3	17.0
80°-90°	990.2	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°	32241.7	100.0
0°-180°	32241.7	100.0



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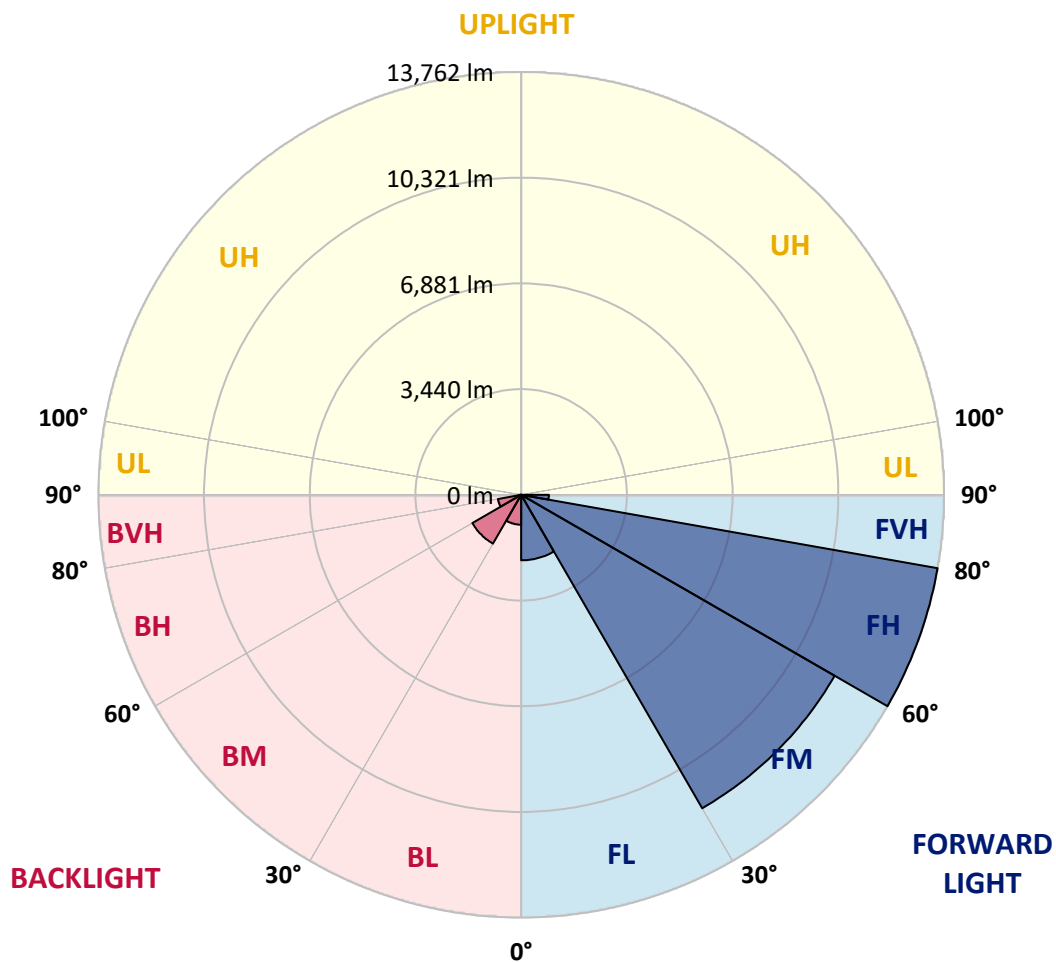
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2132.2	6.6			
FM	(30°-60°)	11779.9	36.5			
FH	(60°-80°)	13761.7	42.7			G5
FVH	(80°-90°)	901.0	2.8			G5
BL	(0°-30°)	972.8	3.0	B2/1000		
BM	(30°-60°)	1835.1	5.7	B2/2500		
BH	(60°-80°)	769.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	89.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8
2.5°	4989.8	4988.2	4975.2	4965.3	4957.0	4953.9	4960.4	4935.7	4914.4	4888.2	4860.4
5°	4952.1	4950.5	4929.2	4909.5	4889.8	4883.2	4881.7	4837.5	4811.2	4771.8	4719.3
7.5°	4911.2	4902.9	4875.1	4842.4	4807.9	4791.5	4775.1	4717.8	4688.3	4648.9	4588.3
10°	4868.5	4858.8	4832.5	4799.7	4766.9	4742.3	4714.5	4658.7	4627.6	4598.1	4527.5
12.5°	4824.3	4816.2	4809.5	4794.9	4771.8	4750.5	4729.2	4681.6	4648.9	4614.5	4532.5
15°	4817.7	4814.5	4829.2	4839.1	4826.0	4812.8	4789.9	4748.9	4714.5	4680.0	4573.5
17.5°	4870.3	4868.5	4906.3	4932.6	4925.9	4902.9	4871.9	4826.0	4798.0	4768.6	4635.9
20°	4985.0	4993.0	5039.0	5073.4	5040.7	5008.0	4957.0	4893.2	4878.3	4865.3	4699.8
22.5°	5201.4	5209.5	5242.2	5255.4	5170.1	5122.7	5052.2	4970.2	4960.4	4970.2	4776.7
25°	5538.9	5530.9	5526.0	5476.7	5321.0	5247.2	5157.1	5071.8	5076.7	5121.0	4885.0
27.5°	5986.6	5942.3	5873.4	5725.8	5478.4	5396.4	5286.5	5207.8	5239.1	5324.3	5047.2
30°	6450.4	6401.2	6242.2	6001.2	5685.0	5594.7	5471.8	5383.4	5465.3	5599.7	5263.6
32.5°	6879.8	6873.3	6640.6	6330.7	5970.1	5891.4	5768.5	5668.6	5801.3	6006.2	5588.1
35°	7348.8	7363.4	7084.8	6712.8	6355.4	6273.5	6184.9	6109.5	6286.5	6568.4	6058.7
37.5°	7850.4	7879.8	7550.3	7130.7	6794.7	6760.3	6707.9	6674.9	6948.7	7339.0	6716.0
40°	8520.9	8491.3	8033.9	7602.9	7334.0	7332.3	7315.9	7355.3	7811.0	8345.4	7560.1
42.5°	9238.8	9151.9	8547.1	8109.4	7925.7	7981.5	8014.3	8174.9	8848.7	9568.2	8589.7
45°	10012.5	9817.4	9079.8	8645.4	8583.0	8701.2	8812.6	9161.8	10069.9	10960.0	9717.4
47.5°	10630.5	10442.0	9630.5	9207.6	9343.7	9522.4	9737.1	10289.5	11437.0	12397.6	10830.4
50°	11117.3	10994.4	10186.3	9863.3	10181.3	10456.7	10807.6	11566.4	12859.9	13797.5	11861.6
52.5°	11589.5	11497.6	10747.0	10535.4	11164.9	11545.1	12022.2	12936.9	14318.9	15174.4	12728.8
55°	12015.6	11950.2	11350.2	11373.1	12322.2	12817.2	13417.3	14497.4	15908.9	16402.3	13463.1
57.5°	12496.0	12412.4	12038.6	12423.7	13808.9	14451.7	15231.9	16251.4	17400.6	17494.0	14022.2
60°	12979.5	12907.3	12802.6	13636.9	15697.4	16372.8	17112.1	17951.4	18913.6	18341.6	13989.3
62.5°	13399.2	13407.5	13592.7	14910.5	17546.5	18328.4	19229.9	20059.4	20282.4	18489.0	12954.9
65°	14110.7	14240.1	14792.5	16713.8	20149.6	21195.4	22302.0	22169.1	20661.0	17110.5	10737.0
67.5°	14956.5	15184.3	16303.9	19116.9	23439.6	24828.1	25255.8	22646.2	19144.8	13908.9	7653.6
70°	14871.3	15184.3	16956.3	20908.6	26150.9	27081.9	25783.7	20495.5	15202.3	9086.4	4065.3
72.5°	13205.8	13653.2	15626.9	20087.3	25296.8	25214.9	22383.8	15279.5	9032.3	3648.9	1588.5
75°	10065.0	10517.4	12215.6	15869.5	19993.8	19305.4	15882.7	8440.5	3427.7	1449.1	1001.6
77.5°	5789.8	6140.6	7452.0	9732.1	12684.4	11978.0	8840.4	3753.8	1668.7	1009.8	782.0
80°	3232.6	3427.7	4224.3	4937.4	6216.0	5697.9	3955.4	2332.7	1245.8	732.7	603.2
82.5°	2555.6	2729.3	3416.2	3114.6	2839.2	2619.5	2272.1	2076.9	995.1	462.3	360.6
85°	2232.6	2398.3	2891.6	2452.4	1939.3	1778.6	1845.7	2044.2	773.7	278.7	308.2
87.5°	2068.7	2290.0	2576.9	1890.0	1509.7	1337.7	1703.1	2240.8	249.2	173.7	124.5
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°	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8	4894.8
2.5°	4835.8	4809.5	4766.9	4729.2	4670.2	4639.0	4604.6	4580.1	4560.3	4543.9	4570.1
5°	4686.5	4637.4	4547.3	4450.6	4335.8	4245.7	4170.2	4099.8	4050.5	4017.8	4040.8
7.5°	4545.7	4465.4	4324.4	4148.9	3952.3	3785.0	3647.3	3525.9	3442.5	3388.2	3409.6
10°	4465.4	4365.4	4147.3	3872.0	3581.7	3321.2	3104.7	2917.9	2788.3	2714.6	2726.0
12.5°	4445.6	4316.1	4014.5	3635.8	3239.2	2876.9	2571.9	2313.0	2131.0	2036.0	2039.2
15°	4460.4	4294.8	3889.9	3409.6	2908.1	2450.7	2070.4	1755.6	1544.1	1436.0	1434.4
17.5°	4485.0	4278.4	3758.8	3165.4	2571.9	2040.9	1616.3	1308.1	1121.3	1034.4	1027.8
20°	4511.2	4252.1	3611.2	2901.4	2222.9	1660.5	1265.5	1024.5	906.5	859.0	855.6
22.5°	4548.8	4229.2	3458.8	2622.8	1880.2	1352.4	1041.0	878.6	816.3	791.8	788.5
25°	4609.6	4217.8	3296.5	2332.7	1572.0	1131.1	906.5	806.5	770.4	754.0	752.4
27.5°	4711.3	4234.3	3144.1	2050.7	1321.2	981.8	831.1	770.4	744.2	729.5	727.8
30°	4842.4	4284.9	2983.5	1783.5	1126.1	880.2	785.2	745.9	724.6	709.8	709.8
32.5°	5060.3	4370.3	2814.6	1552.5	986.8	809.8	750.8	724.6	706.4	695.1	693.4
35°	5381.7	4531.0	2657.2	1360.6	886.8	759.0	721.2	701.5	688.6	682.0	682.0
37.5°	5848.9	4784.9	2517.9	1222.9	826.3	724.6	693.4	678.7	670.5	670.5	670.5
40°	6476.7	5135.8	2404.8	1131.1	791.8	700.0	672.1	660.7	655.8	657.3	657.3
42.5°	7251.9	5591.5	2329.3	1067.1	775.3	685.1	657.3	647.5	642.6	640.9	642.6
45°	8135.6	6109.5	2321.2	1019.5	759.0	675.3	647.5	637.6	627.8	621.3	621.3
47.5°	8994.5	6635.7	2388.4	1003.1	740.9	663.8	639.4	629.4	614.7	600.0	600.0
50°	9753.4	7083.1	2478.6	1009.8	734.4	647.5	626.2	621.3	598.4	581.9	580.2
52.5°	10356.7	7427.5	2552.4	1029.5	740.9	636.0	609.8	611.4	586.9	568.8	567.2
55°	10840.3	7653.6	2532.6	1049.1	755.7	629.4	595.0	598.4	578.7	560.6	560.6
57.5°	11051.8	7570.0	2314.7	1032.7	767.2	631.1	583.5	596.7	580.2	563.9	563.9
60°	10597.8	6827.5	1906.5	960.6	752.4	626.2	578.7	603.2	601.7	585.2	583.5
62.5°	9224.1	5498.0	1478.6	854.1	701.5	601.7	565.6	601.7	619.7	614.7	613.1
65°	7109.4	3916.2	1129.3	739.2	632.8	560.6	531.1	563.9	588.5	595.0	593.4
67.5°	4614.5	2399.8	870.5	631.1	555.7	513.1	486.8	501.7	506.6	506.6	503.2
70°	2268.7	1291.8	693.4	531.1	477.0	462.3	447.5	439.4	431.1	424.5	424.5
72.5°	1119.6	844.1	570.5	449.2	411.5	404.9	401.6	391.8	385.3	377.0	373.8
75°	827.8	686.8	485.3	378.6	354.1	347.6	354.1	345.8	344.2	337.8	334.3
77.5°	680.2	585.2	418.0	324.6	303.3	291.8	301.7	303.3	305.0	295.1	291.8
80°	552.4	495.1	349.1	268.9	249.2	240.9	247.6	260.7	263.9	249.2	242.6
82.5°	398.4	404.9	282.0	209.8	193.4	186.8	200.1	216.4	219.6	198.3	193.4
85°	334.3	337.8	216.4	149.2	132.8	123.0	144.3	160.6	172.1	150.8	145.9
87.5°	139.3	198.3	124.5	83.6	73.8	63.9	77.1	85.2	103.2	95.1	93.5
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)