

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: P192045

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192045
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-07-LED-E1-SL4-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA 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: 32323 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

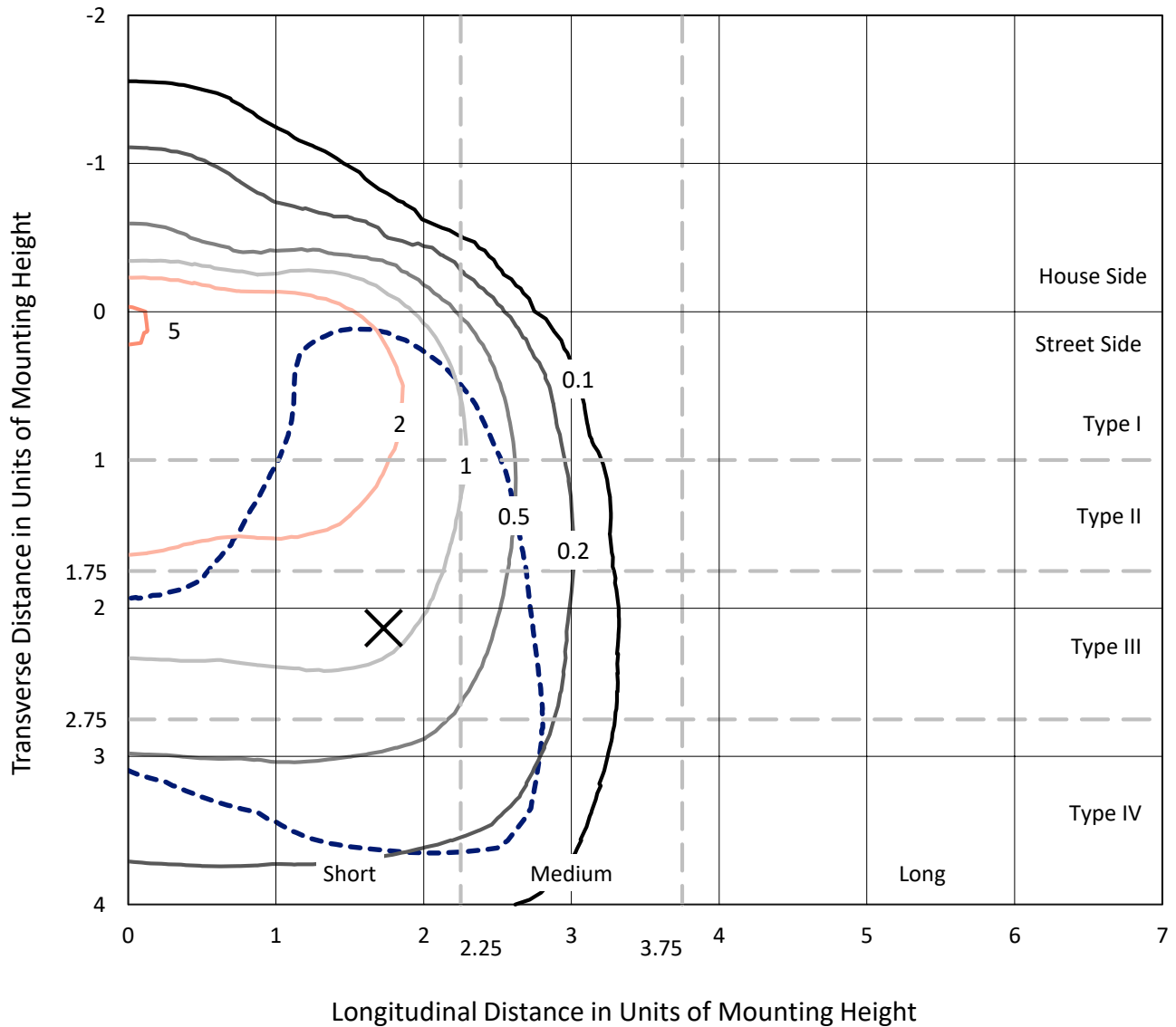
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

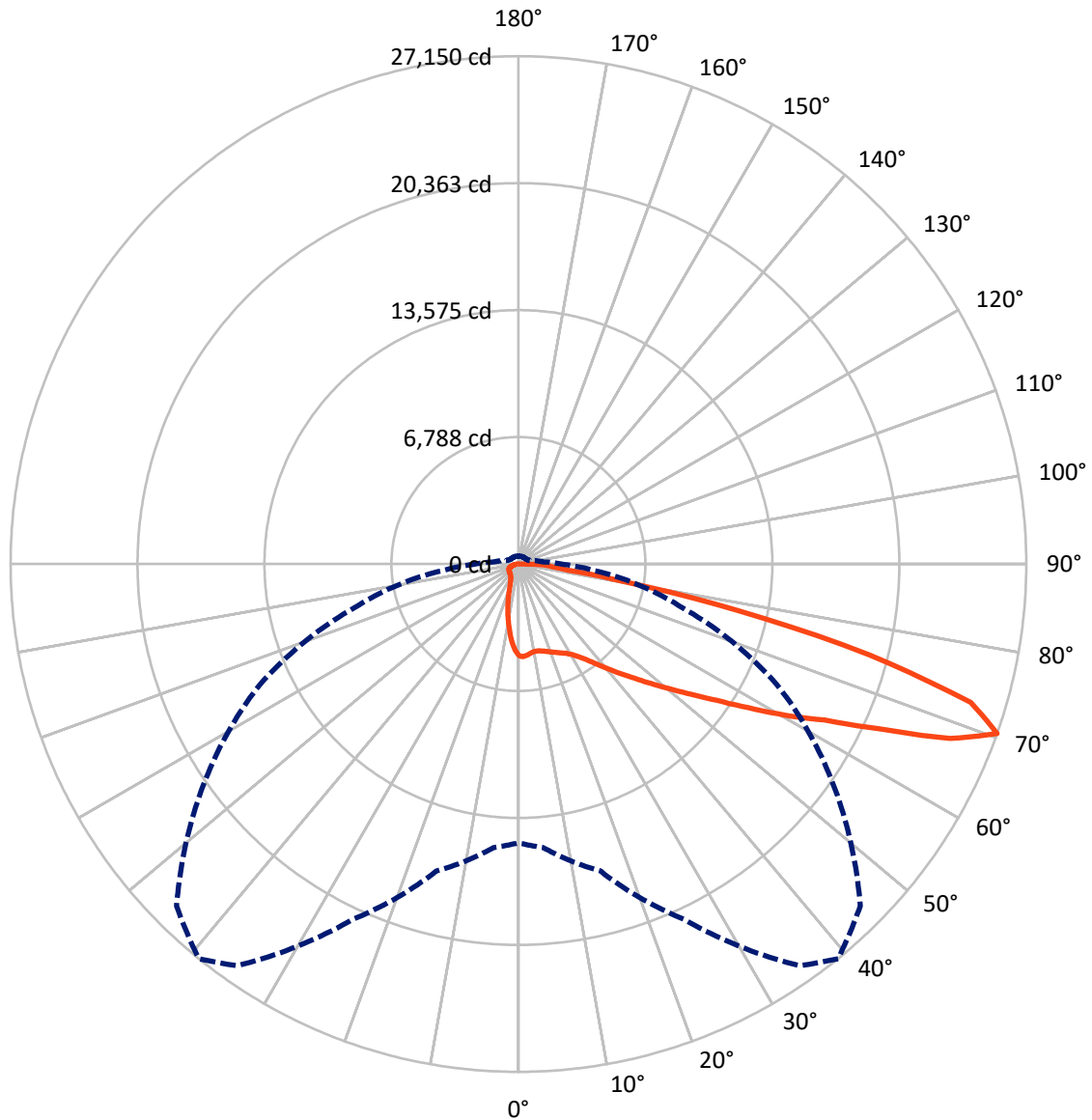
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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	3676.2	0.0	3676.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	28646.8	0.0	28646.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	32323.0	0.0	32323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.1	1.3
10°-20°	1052.6	3.3
20°-30°	1639.0	5.1
30°-40°	2553.3	7.9
40°-50°	4286.5	13.3
50°-60°	6809.5	21.1
60°-70°	9083.1	28.1
70°-80°	5485.1	17.0
80°-90°	992.7	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°	32323.0	100.0
0°-180°	32323.0	100.0

Coefficient of Utilization



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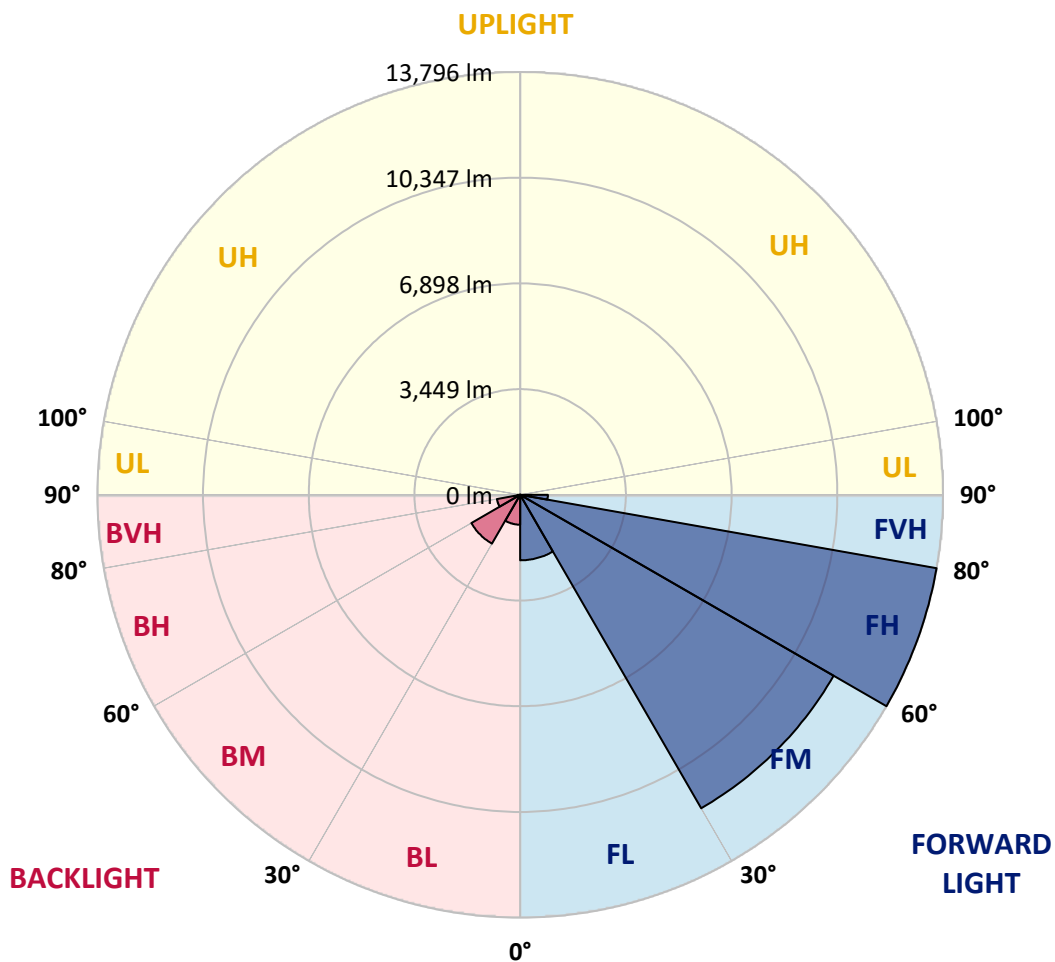
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2137.6	6.6			
FM (30°-60°)	11809.6	36.5			
FH (60°-80°)	13796.4	42.7			G5
FVH (80°-90°)	903.3	2.8			G5
BL (0°-30°)	975.2	3.0	B2/1000		
BM (30°-60°)	1839.7	5.7	B2/2500		
BH (60°-80°)	771.8	2.4	B2/1000		G2/1000
BVH (80°-90°)	89.5	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°	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1
2.5°	5002.4	5000.8	4987.7	4977.8	4969.6	4966.3	4972.9	4948.2	4926.9	4900.6	4872.6
5°	4964.7	4963.0	4941.6	4921.9	4902.2	4895.6	4894.0	4849.6	4823.3	4783.9	4731.3
7.5°	4923.6	4915.3	4887.4	4854.5	4820.0	4803.6	4787.2	4729.6	4700.1	4660.6	4599.8
10°	4880.8	4871.0	4844.7	4811.8	4778.9	4754.3	4726.4	4670.5	4639.3	4609.7	4539.0
12.5°	4836.5	4828.3	4821.7	4806.9	4783.9	4762.5	4741.2	4693.5	4660.6	4626.1	4543.9
15°	4829.9	4826.6	4841.4	4851.3	4838.1	4825.0	4802.0	4760.9	4726.4	4691.8	4585.0
17.5°	4882.5	4880.8	4918.6	4944.9	4938.4	4915.3	4884.1	4838.1	4810.2	4780.6	4647.5
20°	4997.5	5005.7	5051.7	5086.3	5053.4	5020.5	4969.6	4905.5	4890.7	4877.6	4711.6
22.5°	5214.4	5222.7	5255.5	5268.7	5183.2	5135.6	5064.9	4982.7	4972.9	4982.7	4788.8
25°	5553.0	5544.8	5539.8	5490.5	5334.4	5260.5	5170.1	5084.6	5089.5	5133.9	4897.3
27.5°	6001.6	5957.3	5888.2	5740.3	5492.2	5410.0	5299.9	5221.0	5252.2	5337.7	5060.0
30°	6466.7	6417.4	6258.0	6016.4	5699.2	5608.9	5485.6	5396.9	5479.0	5613.8	5276.9
32.5°	6897.3	6890.7	6657.3	6346.7	5985.2	5906.3	5783.1	5682.8	5815.9	6021.3	5602.3
35°	7367.3	7382.1	7102.7	6729.6	6371.4	6289.2	6200.5	6124.9	6302.4	6585.0	6073.9
37.5°	7870.1	7899.7	7569.4	7148.7	6811.8	6777.3	6724.7	6691.8	6966.3	7357.4	6732.9
40°	8542.3	8512.7	8054.2	7622.0	7352.5	7350.8	7334.4	7373.8	7830.7	8366.4	7579.3
42.5°	9262.1	9175.0	8568.6	8129.8	7945.7	8001.6	8034.5	8195.5	8871.0	9592.4	8611.3
45°	10037.8	9842.2	9102.7	8667.2	8604.7	8723.1	8834.8	9184.9	10095.3	10987.6	9742.0
47.5°	10657.3	10468.3	9654.9	9230.9	9367.3	9546.4	9761.7	10315.5	11465.9	12428.9	10857.8
50°	11145.4	11022.1	10212.0	9888.2	10207.0	10483.1	10834.8	11595.7	12892.3	13832.3	11891.5
52.5°	11618.7	11526.7	10774.0	10562.0	11193.1	11574.3	12052.5	12969.6	14354.9	15212.8	12760.8
55°	12046.0	11980.2	11378.8	11401.8	12353.3	12849.6	13451.1	14534.1	15949.0	16443.7	13497.1
57.5°	12527.5	12443.7	12069.0	12455.2	13843.8	14488.0	15270.3	16292.5	17444.5	17538.2	14057.5
60°	13012.3	12940.0	12834.8	13671.3	15737.0	16414.1	17155.2	17996.7	18961.3	18387.8	14024.6
62.5°	13433.0	13441.2	13626.9	14948.2	17590.7	18374.6	19278.5	20110.0	20333.5	18535.7	12987.6
65°	14146.2	14276.0	14829.9	16755.9	20200.4	21248.9	22358.2	22225.1	20713.2	17153.6	10764.1
67.5°	14994.2	15222.6	16345.1	19165.1	23498.7	24890.6	25319.6	22703.3	19193.0	13944.1	7672.9
70°	14908.7	15222.6	16999.1	20961.3	26216.8	27150.3	25848.7	20547.2	15240.7	9109.3	4075.6
72.5°	13239.1	13687.7	15666.3	20138.0	25360.6	25278.5	22440.4	15317.9	9055.0	3658.2	1592.4
75°	10090.4	10543.9	12246.5	15909.6	20044.3	19354.1	15922.7	8461.8	3436.3	1452.7	1004.1
77.5°	5804.4	6156.1	7470.8	9756.7	12716.5	12008.2	8862.7	3763.3	1673.0	1012.3	783.9
80°	3240.7	3436.3	4235.0	4949.9	6231.7	5712.4	3965.5	2338.5	1249.0	734.6	604.8
82.5°	2562.0	2736.2	3424.8	3122.4	2846.3	2626.1	2277.7	2082.2	997.5	463.4	361.5
85°	2238.3	2404.3	2898.9	2458.5	1944.1	1783.1	1850.4	2049.3	775.7	279.4	309.0
87.5°	2073.9	2295.8	2583.4	1894.8	1513.6	1341.0	1707.5	2246.5	249.8	174.2	124.9
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°	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1	4907.1
2.5°	4848.0	4821.7	4778.9	4741.2	4682.0	4650.8	4616.3	4591.6	4571.9	4555.4	4581.7
5°	4698.4	4649.1	4558.7	4461.8	4346.7	4256.4	4180.8	4110.1	4060.8	4027.9	4050.9
7.5°	4557.1	4476.6	4335.2	4159.4	3962.2	3794.6	3656.5	3534.9	3451.1	3396.9	3418.2
10°	4476.6	4376.3	4157.8	3881.7	3590.8	3329.5	3112.6	2925.2	2795.4	2721.4	2732.9
12.5°	4456.8	4327.0	4024.6	3645.0	3247.3	2884.1	2578.5	2318.8	2136.4	2041.1	2044.4
15°	4471.6	4305.7	3899.7	3418.2	2915.4	2456.9	2075.6	1760.1	1548.1	1439.6	1438.0
17.5°	4496.3	4289.2	3768.3	3173.4	2578.5	2046.0	1620.4	1311.4	1124.1	1037.0	1030.4
20°	4522.6	4262.9	3620.4	2908.8	2228.4	1664.7	1268.7	1027.1	908.8	861.1	857.8
22.5°	4560.4	4239.9	3467.5	2629.4	1885.0	1355.8	1043.5	880.9	818.4	793.8	790.5
25°	4621.2	4228.4	3304.8	2338.5	1576.0	1133.9	908.8	808.5	772.4	756.0	754.3
27.5°	4723.1	4244.9	3152.0	2055.9	1324.6	984.4	833.2	772.4	746.1	731.3	729.7
30°	4854.5	4295.8	2991.0	1788.0	1129.0	882.5	787.2	747.7	726.4	711.6	711.6
32.5°	5073.1	4381.3	2821.7	1556.3	989.3	811.8	752.7	726.4	708.3	696.8	695.1
35°	5395.2	4542.3	2663.9	1364.0	889.1	760.9	723.1	703.4	690.2	683.6	683.6
37.5°	5863.6	4797.0	2524.2	1226.0	828.3	726.4	695.1	680.4	672.1	672.1	672.1
40°	6493.0	5148.7	2410.8	1133.9	793.8	701.7	673.8	662.3	657.4	659.0	659.0
42.5°	7270.3	5605.6	2335.2	1069.8	777.3	686.9	659.0	649.1	644.2	642.6	644.2
45°	8156.1	6124.9	2327.0	1022.2	760.9	677.1	649.1	639.3	629.4	622.8	622.8
47.5°	9017.2	6652.4	2394.4	1005.7	742.8	665.6	640.9	631.1	616.3	601.5	601.5
50°	9778.1	7101.0	2484.8	1012.3	736.2	649.1	627.8	622.8	599.8	583.4	581.8
52.5°	10382.9	7446.2	2558.7	1032.0	742.8	637.6	611.3	613.0	588.3	570.3	568.6
55°	10867.7	7672.9	2539.0	1051.8	757.6	631.1	596.5	599.8	580.1	562.0	562.0
57.5°	11079.7	7589.1	2320.5	1035.3	769.1	632.7	585.0	598.2	581.8	565.3	565.3
60°	10624.5	6844.7	1911.3	963.0	754.3	627.8	580.1	604.8	603.1	586.7	585.0
62.5°	9247.3	5511.9	1482.3	856.2	703.4	603.1	567.0	603.1	621.2	616.3	614.6
65°	7127.3	3926.0	1132.3	741.2	634.3	562.0	532.5	565.3	590.0	596.5	594.9
67.5°	4626.1	2405.9	872.6	632.7	557.1	514.4	488.1	502.9	507.8	507.8	504.5
70°	2274.4	1295.0	695.1	532.5	478.2	463.4	448.6	440.4	432.2	425.6	425.6
72.5°	1122.4	846.3	571.9	450.3	412.5	405.9	402.6	392.8	386.2	378.0	374.7
75°	829.9	688.6	486.4	379.6	355.0	348.4	355.0	346.8	345.1	338.5	335.2
77.5°	682.0	586.7	419.1	325.4	304.0	292.5	302.4	304.0	305.7	295.8	292.5
80°	553.8	496.3	350.0	269.5	249.8	241.6	248.2	261.3	264.6	249.8	243.2
82.5°	399.3	405.9	282.7	210.4	193.9	187.3	200.5	216.9	220.2	198.8	193.9
85°	335.2	338.5	216.9	149.5	133.1	123.3	144.6	161.1	172.6	151.2	146.3
87.5°	139.7	198.8	124.9	83.8	74.0	64.1	77.2	85.5	103.5	95.3	93.7
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)