

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: P193778

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193778
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-10-LED-E1-SL4-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA 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: 30099 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

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

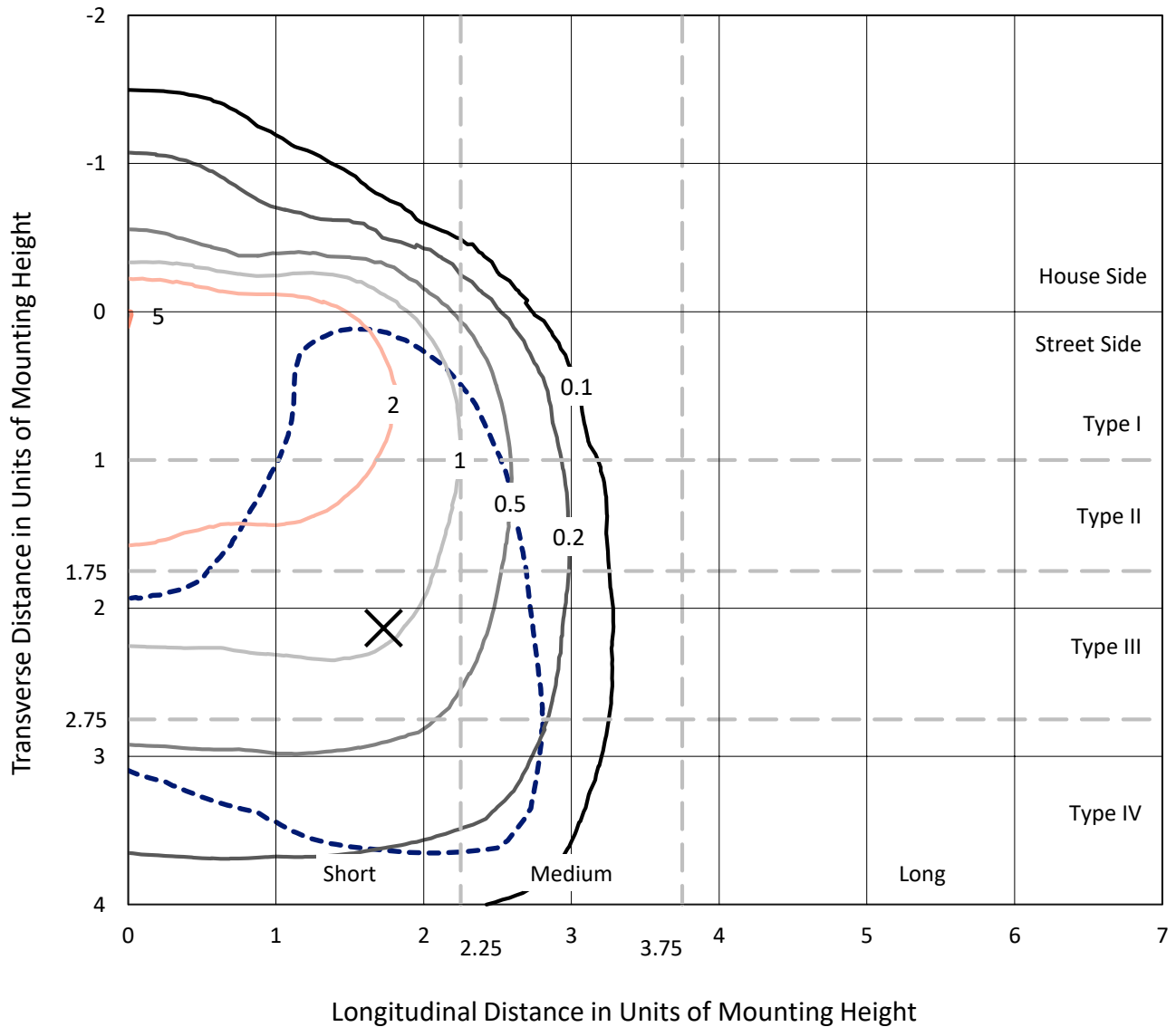


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Iso-Footcandle Lines of Horizontal Illumination

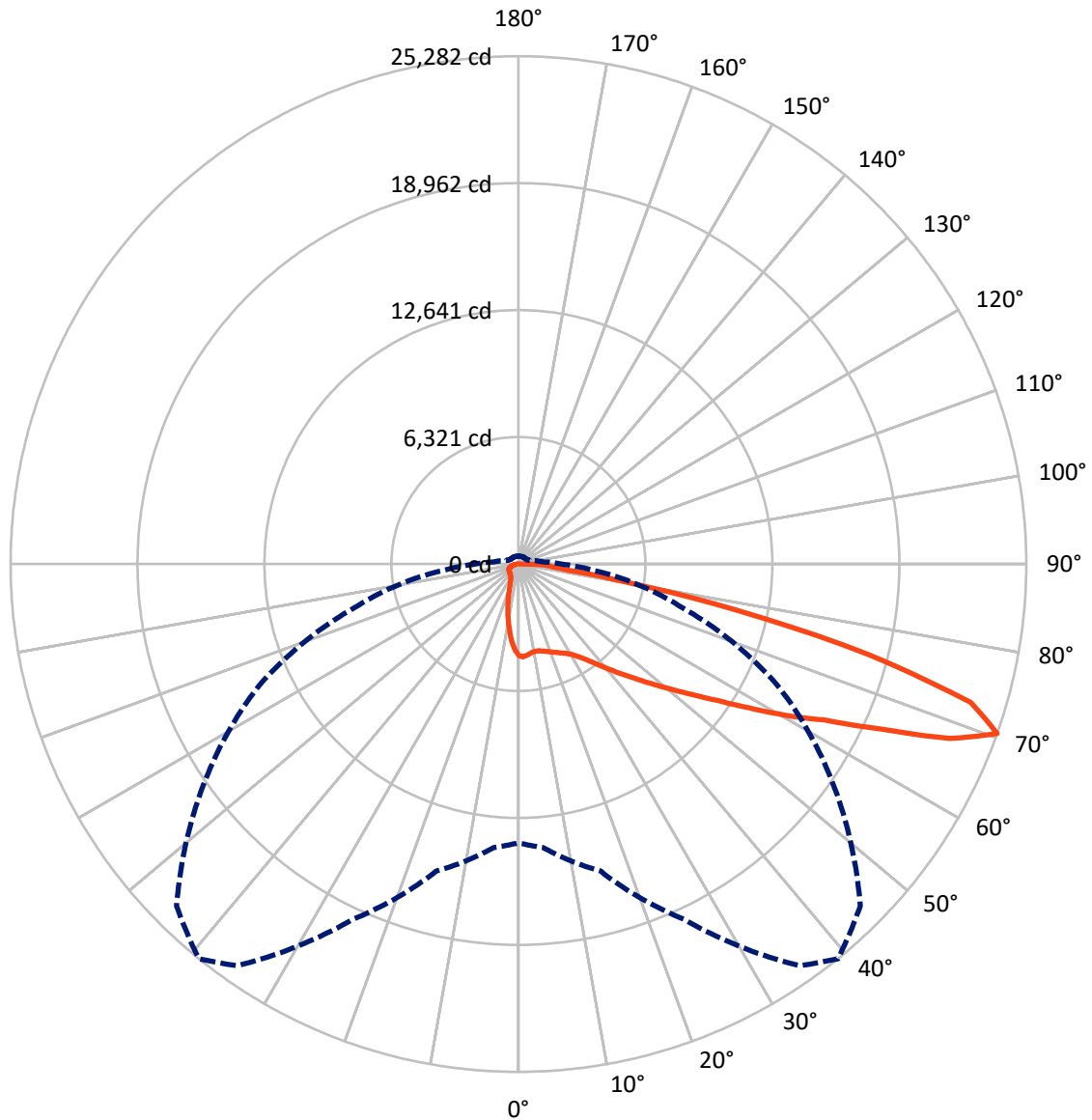
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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	3423.3	0.0	3423.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	26675.7	0.0	26675.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	30099.0	0.0	30099.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.2	1.3
10°-20°	980.2	3.3
20°-30°	1526.2	5.1
30°-40°	2377.6	7.9
40°-50°	3991.6	13.3
50°-60°	6341.0	21.1
60°-70°	8458.2	28.1
70°-80°	5107.7	17.0
80°-90°	924.4	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°	30099.0	100.0
0°-180°	30099.0	100.0



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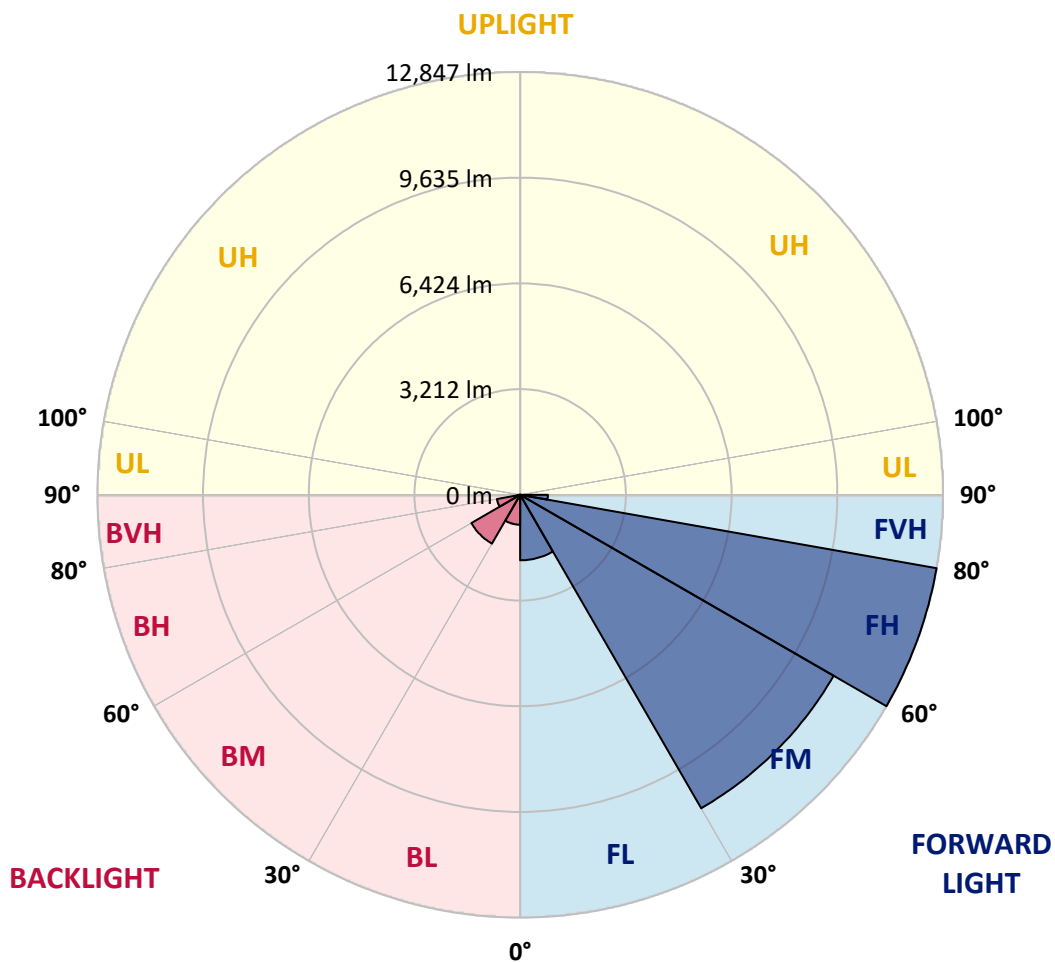
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1990.5	6.6			
FM (30°-60°)	10997.0	36.5			
FH (60°-80°)	12847.1	42.7			G5
FVH (80°-90°)	841.1	2.8			G5
BL (0°-30°)	908.1	3.0	B2/1000		
BM (30°-60°)	1713.1	5.7	B2/2500		
BH (60°-80°)	718.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	83.3	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°	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5
2.5°	4658.3	4656.7	4644.5	4635.3	4627.6	4624.6	4630.7	4607.8	4587.9	4563.4	4537.4
5°	4623.1	4621.5	4601.6	4583.3	4564.9	4558.8	4557.3	4515.9	4491.4	4454.7	4405.8
7.5°	4584.8	4577.1	4551.1	4520.5	4488.4	4473.1	4457.8	4404.2	4376.7	4339.9	4283.3
10°	4545.0	4535.8	4511.3	4480.7	4450.1	4427.2	4401.2	4349.1	4320.1	4292.5	4226.7
12.5°	4503.7	4496.0	4489.9	4476.1	4454.7	4434.8	4414.9	4370.6	4339.9	4307.8	4231.3
15°	4497.6	4494.5	4508.3	4517.5	4505.2	4493.0	4471.6	4433.3	4401.2	4369.0	4269.6
17.5°	4546.5	4545.0	4580.2	4604.7	4598.6	4577.1	4548.1	4505.2	4479.2	4451.7	4327.7
20°	4653.7	4661.3	4704.2	4736.3	4705.7	4675.1	4627.6	4568.0	4554.2	4541.9	4387.4
22.5°	4855.7	4863.3	4893.9	4906.2	4826.6	4782.2	4716.4	4639.9	4630.7	4639.9	4459.3
25°	5170.9	5163.3	5158.7	5112.8	4967.4	4898.5	4814.3	4734.8	4739.4	4780.7	4560.3
27.5°	5588.7	5547.4	5483.1	5345.4	5114.3	5037.8	4935.2	4861.8	4890.9	4970.4	4711.8
30°	6021.8	5975.8	5827.4	5602.5	5307.1	5222.9	5108.2	5025.5	5102.0	5227.5	4913.8
32.5°	6422.7	6416.6	6199.3	5910.0	5573.4	5499.9	5385.1	5291.8	5415.8	5607.0	5216.8
35°	6860.4	6874.1	6614.0	6266.6	5933.0	5856.5	5773.8	5703.5	5868.7	6131.9	5656.0
37.5°	7328.6	7356.2	7048.6	6656.8	6343.1	6311.0	6262.0	6231.4	6487.0	6851.2	6269.7
40°	7954.5	7927.0	7500.0	7097.6	6846.6	6845.1	6829.8	6866.5	7291.9	7790.8	7057.8
42.5°	8624.8	8543.7	7979.0	7570.4	7399.0	7451.1	7481.7	7631.6	8260.6	8932.4	8018.8
45°	9347.1	9165.0	8476.4	8070.8	8012.7	8122.9	8226.9	8552.9	9400.7	10231.6	9071.7
47.5°	9924.0	9748.1	8990.5	8595.7	8722.7	8889.5	9090.0	9605.7	10676.9	11573.7	10110.7
50°	10378.5	10263.8	9509.3	9207.9	9504.7	9761.8	10089.3	10797.8	12005.3	12880.6	11073.3
52.5°	10819.3	10733.6	10032.7	9835.3	10422.9	10777.9	11223.3	12077.2	13367.2	14166.0	11882.8
55°	11217.1	11155.9	10595.8	10617.3	11503.3	11965.5	12525.6	13534.0	14851.6	15312.2	12568.4
57.5°	11665.5	11587.5	11238.6	11598.2	12891.3	13491.2	14219.6	15171.5	16244.2	16331.4	13090.2
60°	12117.0	12049.6	11951.7	12730.6	14654.2	15284.7	15974.9	16758.4	17656.7	17122.6	13059.6
62.5°	12508.7	12516.4	12689.3	13919.7	16380.4	17110.4	17952.0	18726.4	18934.5	17260.3	12094.0
65°	13172.9	13293.8	13809.5	15603.0	18810.5	19786.9	20819.8	20695.9	19288.0	15973.3	10023.5
67.5°	13962.5	14175.2	15220.4	17846.4	21881.9	23178.0	23577.4	21141.2	17872.4	12984.6	7145.0
70°	13882.9	14175.2	15829.5	19519.1	24413.0	25282.2	24070.2	19133.4	14192.1	8482.5	3795.2
72.5°	12328.1	12745.9	14588.4	18752.4	23615.7	23539.2	20896.3	14264.0	8432.0	3406.5	1482.9
75°	9396.1	9818.4	11403.8	14814.9	18665.1	18022.4	14827.1	7879.5	3199.9	1352.8	935.0
77.5°	5405.0	5732.5	6956.8	9085.4	11841.5	11181.9	8252.9	3504.4	1557.9	942.7	730.0
80°	3017.8	3199.9	3943.6	4609.3	5802.9	5319.3	3692.6	2177.6	1163.0	684.0	563.2
82.5°	2385.7	2548.0	3189.2	2907.6	2650.5	2445.4	2121.0	1938.9	928.9	431.5	336.7
85°	2084.3	2238.8	2699.5	2289.3	1810.4	1660.4	1723.1	1908.3	722.3	260.2	287.7
87.5°	1931.2	2137.8	2405.6	1764.4	1409.4	1248.7	1590.0	2091.9	232.6	162.2	116.3
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°	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5	4569.5
2.5°	4514.4	4489.9	4450.1	4414.9	4359.8	4330.8	4298.6	4275.7	4257.3	4242.0	4266.5
5°	4375.1	4329.2	4245.1	4154.8	4047.7	3963.5	3893.1	3827.3	3781.4	3750.8	3772.2
7.5°	4243.5	4168.6	4036.9	3873.2	3689.6	3533.5	3404.9	3291.7	3213.6	3163.1	3183.0
10°	4168.6	4075.2	3871.7	3614.6	3343.7	3100.4	2898.4	2723.9	2603.1	2534.2	2544.9
12.5°	4150.2	4029.3	3747.7	3394.2	3023.9	2685.7	2401.1	2159.3	1989.4	1900.6	1903.7
15°	4164.0	4009.4	3631.4	3183.0	2714.8	2287.8	1932.8	1639.0	1441.5	1340.5	1339.0
17.5°	4186.9	3994.1	3509.0	2955.0	2401.1	1905.2	1508.9	1221.2	1046.7	965.6	959.5
20°	4211.4	3969.6	3371.3	2708.6	2075.1	1550.2	1181.4	956.4	846.3	801.9	798.8
22.5°	4246.6	3948.2	3228.9	2448.5	1755.3	1262.5	971.7	820.2	762.1	739.1	736.1
25°	4303.2	3937.5	3077.4	2177.6	1467.6	1055.9	846.3	752.9	719.2	703.9	702.4
27.5°	4398.1	3952.8	2935.1	1914.4	1233.4	916.7	775.9	719.2	694.8	681.0	679.5
30°	4520.5	4000.2	2785.2	1665.0	1051.3	821.8	733.0	696.3	676.4	662.6	662.6
32.5°	4724.1	4079.8	2627.5	1449.2	921.2	756.0	700.9	676.4	659.6	648.8	647.3
35°	5024.0	4229.8	2480.6	1270.2	827.9	708.5	673.3	655.0	642.7	636.6	636.6
37.5°	5460.1	4467.0	2350.6	1141.6	771.3	676.4	647.3	633.5	625.9	625.9	625.9
40°	6046.2	4794.4	2245.0	1055.9	739.1	653.4	627.4	616.7	612.1	613.7	613.7
42.5°	6770.1	5219.9	2174.6	996.2	723.8	639.7	613.7	604.5	599.9	598.3	599.9
45°	7594.9	5703.5	2166.9	951.9	708.5	630.5	604.5	595.3	586.1	580.0	580.0
47.5°	8396.8	6194.7	2229.7	936.5	691.7	619.8	596.8	587.6	573.9	560.1	560.1
50°	9105.3	6612.5	2313.8	942.7	685.6	604.5	584.6	580.0	558.6	543.3	541.7
52.5°	9668.5	6933.8	2382.7	961.0	691.7	593.8	569.3	570.8	547.8	531.0	529.5
55°	10119.9	7145.0	2364.3	979.4	705.5	587.6	555.5	558.6	540.2	523.4	523.4
57.5°	10317.3	7067.0	2160.8	964.1	716.2	589.2	544.8	557.0	541.7	526.4	526.4
60°	9893.4	6373.7	1779.7	896.8	702.4	584.6	540.2	563.2	561.6	546.3	544.8
62.5°	8611.0	5132.6	1380.3	797.3	655.0	561.6	528.0	561.6	578.5	573.9	572.3
65°	6636.9	3655.9	1054.4	690.2	590.7	523.4	495.8	526.4	549.4	555.5	554.0
67.5°	4307.8	2240.4	812.6	589.2	518.8	479.0	454.5	468.3	472.9	472.9	469.8
70°	2117.9	1205.9	647.3	495.8	445.3	431.5	417.8	410.1	402.5	396.3	396.3
72.5°	1045.2	788.1	532.5	419.3	384.1	378.0	374.9	365.7	359.6	352.0	348.9
75°	772.8	641.2	453.0	353.5	330.5	324.4	330.5	322.9	321.4	315.2	312.2
77.5°	635.1	546.3	390.2	303.0	283.1	272.4	281.6	283.1	284.6	275.5	272.4
80°	515.7	462.2	326.0	251.0	232.6	225.0	231.1	243.3	246.4	232.6	226.5
82.5°	371.9	378.0	263.2	195.9	180.6	174.5	186.7	202.0	205.1	185.2	180.6
85°	312.2	315.2	202.0	139.3	124.0	114.8	134.7	150.0	160.7	140.8	136.2
87.5°	130.1	185.2	116.3	78.0	68.9	59.7	71.9	79.6	96.4	88.8	87.2
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)