

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: P191153

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20052.9 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G4

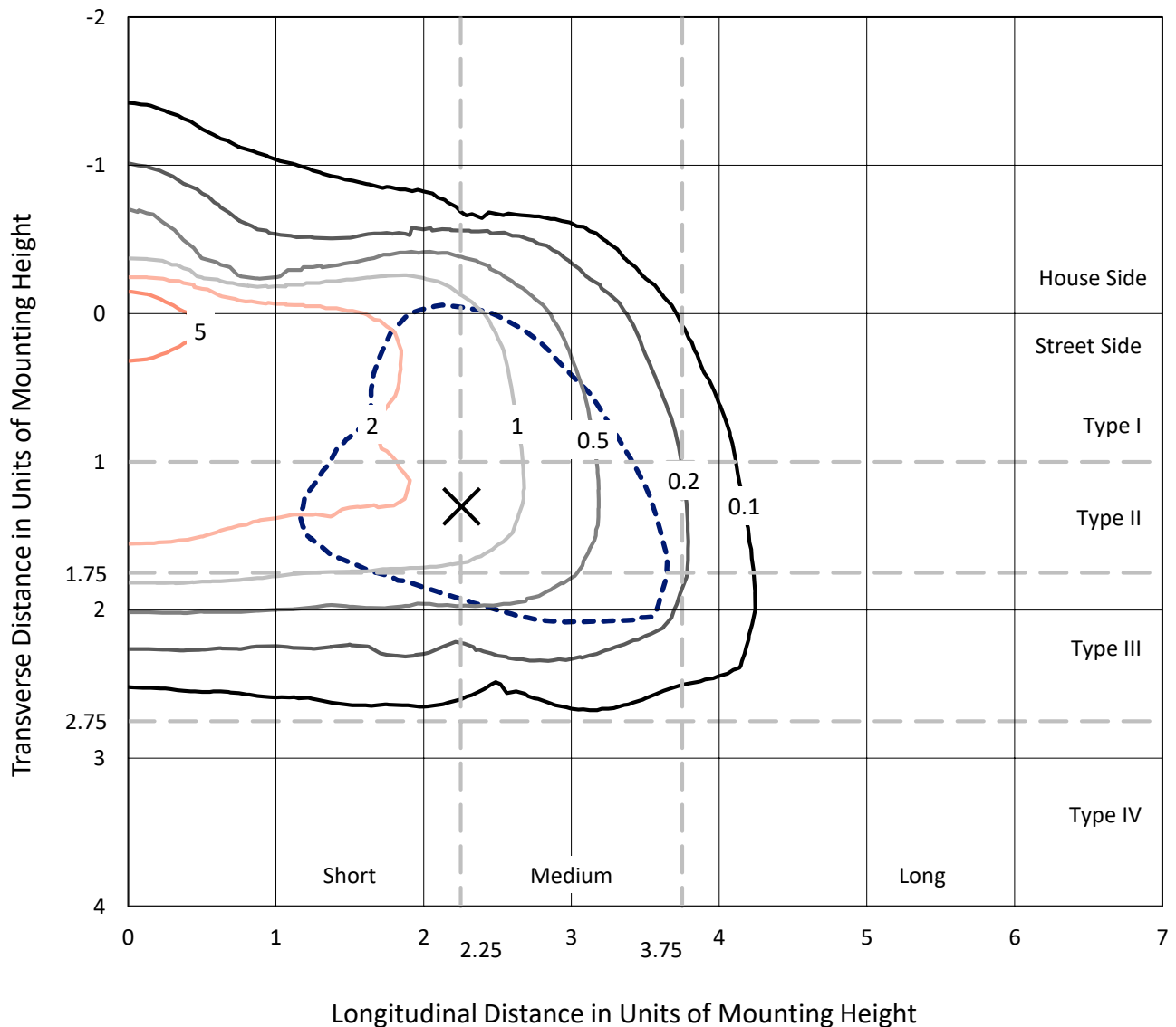
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

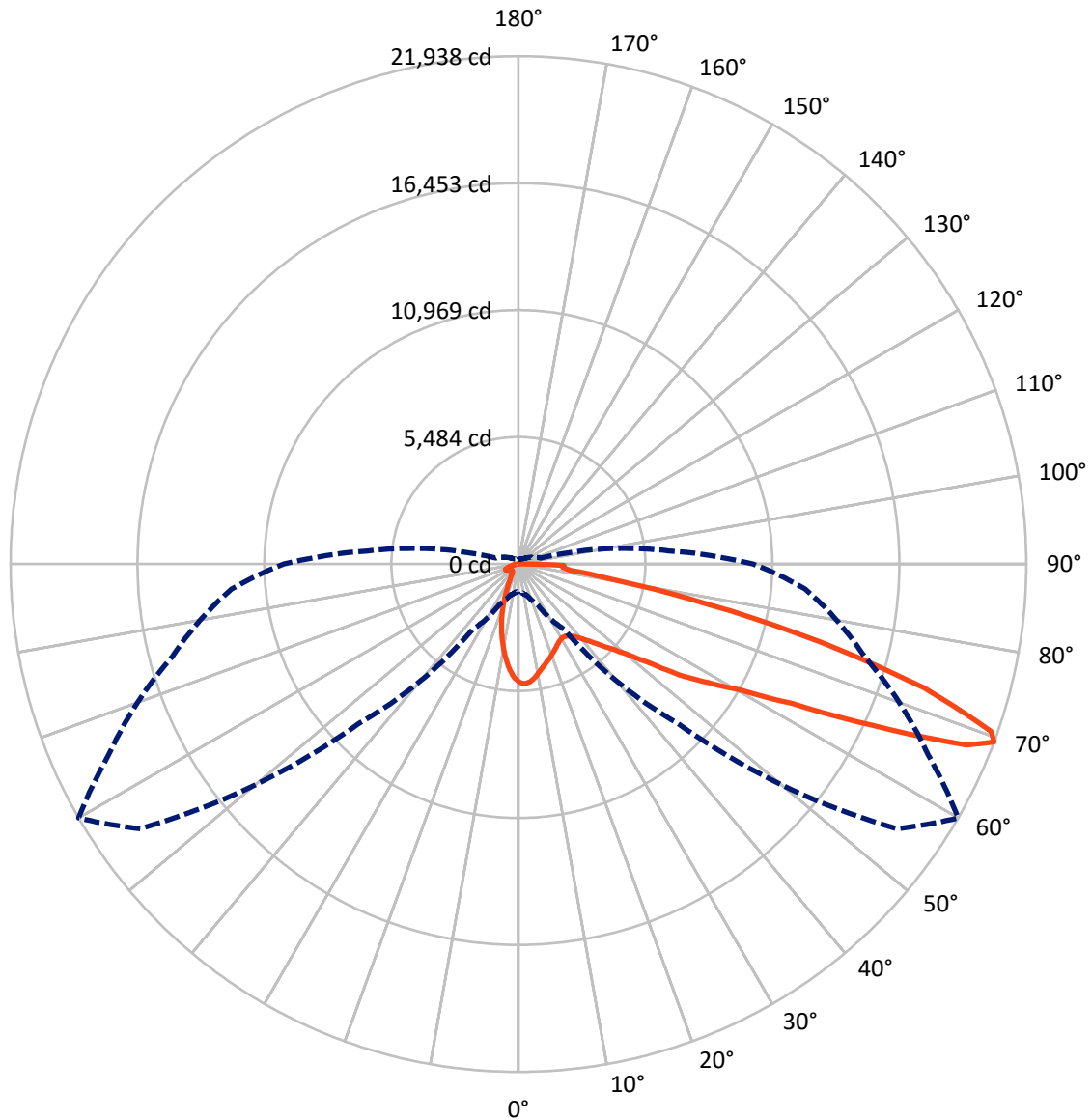
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2852.9	0.0	2852.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	17200.0	0.0	17200.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	20052.9	0.0	20052.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.0	2.2
10°-20°	920.5	4.6
20°-30°	1172.9	5.8
30°-40°	1612.4	8.0
40°-50°	2616.3	13.0
50°-60°	4195.9	20.9
60°-70°	5584.5	27.8
70°-80°	3015.2	15.0
80°-90°	503.1	2.5
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°	20052.9	100.0
0°-180°	20052.9	100.0

Coefficient of Utilization



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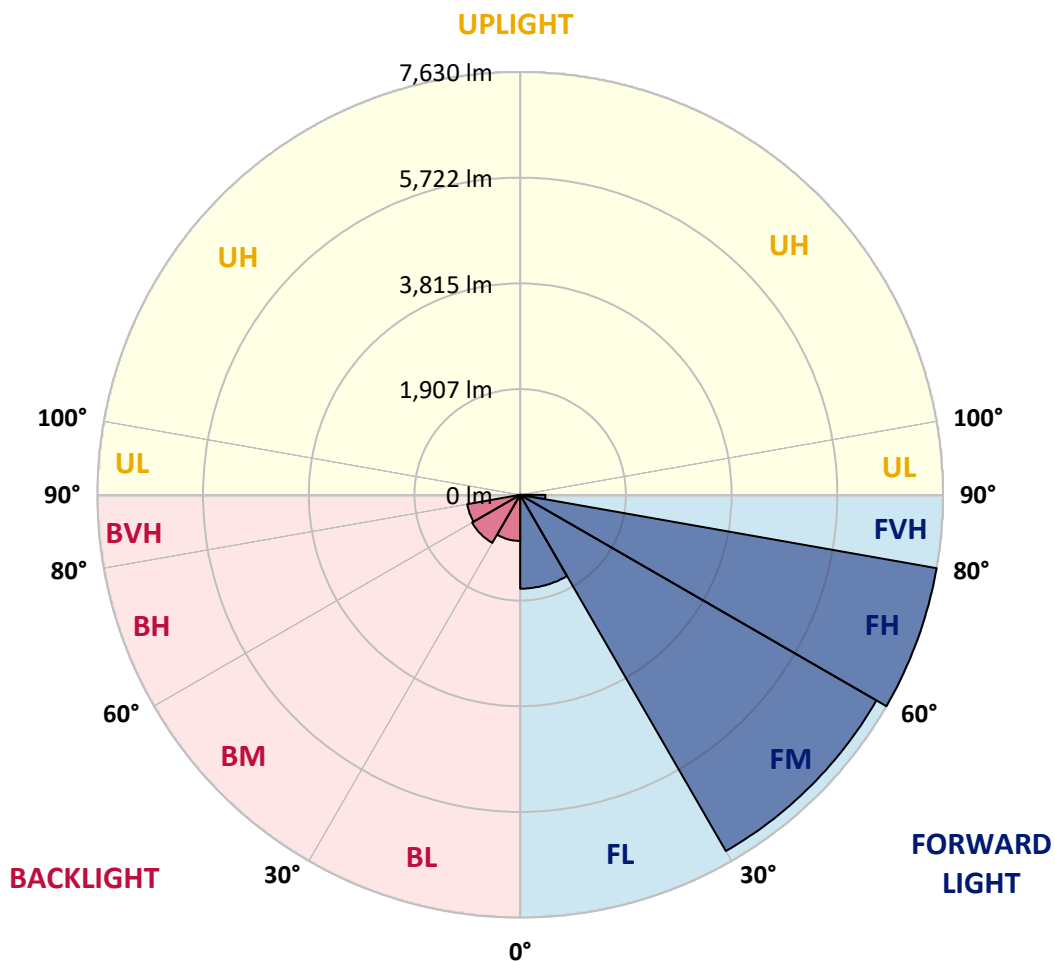
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1693.2	8.4			
FM	(30°-60°)	7422.4	37.0			
FH	(60°-80°)	7629.7	38.0			G4/12000
FVH	(80°-90°)	454.7	2.3			G3/500
BL	(0°-30°)	832.3	4.2	B2/1000		
BM	(30°-60°)	1002.3	5.0	B2/2500		
BH	(60°-80°)	969.9	4.8	B2/1000		G2/1000
BVH	(80°-90°)	48.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7
2.5°	5214.4	5226.1	5221.1	5218.3	5227.0	5213.5	5185.3	5176.6	5163.0	5131.1	5076.8
5°	5018.7	5053.6	5051.6	5077.8	5121.4	5133.1	5120.5	5122.4	5097.2	5057.5	4967.3
7.5°	4680.6	4695.1	4702.9	4760.1	4839.5	4903.4	4957.7	4975.1	4963.6	4929.6	4813.4
10°	4331.9	4343.6	4362.0	4428.8	4529.5	4617.7	4720.4	4779.4	4804.7	4798.9	4669.1
12.5°	4032.6	4044.2	4068.5	4144.0	4264.2	4372.6	4521.7	4595.4	4655.4	4691.4	4551.8
15°	3764.3	3789.5	3812.7	3899.9	4034.5	4176.9	4345.5	4438.5	4531.5	4611.9	4448.2
17.5°	3555.1	3580.2	3593.8	3673.2	3816.6	3990.9	4188.6	4298.0	4414.2	4546.0	4345.5
20°	3433.9	3445.6	3439.8	3484.4	3613.2	3798.2	4032.6	4159.5	4300.0	4484.0	4242.8
22.5°	3400.1	3401.0	3379.7	3374.9	3458.2	3614.2	3866.0	4020.0	4192.5	4443.3	4154.7
25°	3482.4	3479.5	3421.4	3373.9	3382.6	3473.6	3705.2	3884.5	4102.3	4434.6	4086.9
27.5°	3665.4	3674.2	3588.0	3498.9	3410.7	3407.9	3583.2	3772.0	4028.7	4474.3	4057.8
30°	3922.2	3936.7	3844.7	3731.3	3565.7	3429.1	3535.7	3705.2	3983.2	4556.6	4052.9
32.5°	4203.1	4218.6	4148.9	4029.7	3812.7	3560.9	3568.7	3711.1	3981.2	4671.9	4085.9
35°	4502.4	4519.9	4484.0	4383.2	4142.0	3804.0	3694.6	3805.0	4044.2	4848.3	4174.0
37.5°	4836.6	4863.7	4873.4	4777.5	4519.9	4124.6	3900.9	3983.2	4186.6	5093.3	4335.8
40°	5318.0	5355.9	5352.9	5215.4	4952.8	4557.7	4219.6	4240.8	4408.5	5420.7	4594.5
42.5°	6240.2	6248.0	6006.8	5707.5	5429.4	5012.9	4595.4	4578.0	4714.6	5835.3	4975.1
45°	7413.3	7381.3	6844.7	6266.4	5927.4	5536.0	5084.6	4999.4	5103.0	6341.0	5451.7
47.5°	8386.9	8313.2	7635.1	6836.9	6454.3	6104.7	5659.1	5509.8	5567.0	6914.4	6067.8
50°	8724.8	8669.7	8107.8	7311.6	6953.2	6798.2	6366.1	6155.0	6170.4	7598.3	6789.4
52.5°	8652.2	8644.4	8269.6	7624.5	7420.1	7526.7	7367.8	7082.0	6930.9	8357.8	7568.3
55°	8480.8	8497.2	8361.6	7988.7	7953.9	8229.9	8676.5	8465.3	7995.5	9124.0	8373.3
57.5°	7885.0	7927.7	8226.1	8446.9	8813.0	9223.7	9730.4	9670.4	9141.4	9952.2	9330.3
60°	6352.6	6451.4	7251.5	8357.8	9697.5	10981.9	11208.6	11069.1	10323.2	10979.9	10594.5
62.5°	4451.1	4553.8	5505.0	7236.0	9552.1	12967.7	13851.2	13249.6	12020.4	12494.0	12230.5
65°	2383.0	2432.4	3158.9	5020.6	8064.2	13377.4	17713.3	16797.9	14707.5	14360.7	13630.3
67.5°	1314.5	1341.6	1619.6	2535.1	5165.0	11780.1	20173.7	20865.3	18065.8	15603.5	13375.5
69°	1188.6	1213.7	1395.8	1919.9	3456.2	9740.0	19933.5	21937.7	19538.3	15480.4	12434.0
70°	1162.4	1185.7	1349.4	1769.8	2797.6	8028.4	19128.5	21663.5	19888.9	15039.7	11612.5
72.5°	1046.2	1071.3	1230.2	1589.6	2390.7	4002.6	15152.0	18316.8	18057.1	13040.4	8808.2
75°	975.5	998.7	1268.0	1556.6	2289.0	2533.1	9989.0	13499.5	13273.8	9122.1	4749.5
77.5°	417.5	415.5	588.0	1317.4	2322.9	2452.7	5367.4	8433.3	7694.2	3899.0	1363.9
80°	279.0	274.2	279.0	387.5	2130.1	2466.2	2812.1	4280.6	3233.4	993.9	672.3
82.5°	240.2	236.4	245.1	236.4	748.8	2815.0	2390.7	2276.4	1537.3	564.8	333.2
85°	161.7	155.0	211.1	212.2	353.5	2501.1	2692.9	1922.8	1243.8	335.1	164.7
87.5°	77.5	75.6	123.1	150.2	207.2	1016.1	3021.3	1970.3	1254.4	171.4	78.5
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°	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7	5109.7
2.5°	5060.3	5020.6	4981.9	4935.4	4886.9	4832.7	4805.6	4778.5	4771.8	4764.0	4736.9
5°	4920.9	4864.7	4767.9	4661.3	4549.0	4439.5	4356.1	4303.9	4264.2	4243.8	4207.9
7.5°	4740.8	4658.4	4488.8	4304.8	4115.9	3943.5	3794.3	3700.3	3611.2	3569.6	3522.1
10°	4569.2	4446.3	4182.7	3911.6	3640.3	3379.7	3134.6	2961.2	2807.3	2721.0	2660.0
12.5°	4422.0	4253.4	3888.2	3521.2	3149.2	2778.1	2411.0	2122.4	1881.2	1754.3	1689.4
15°	4278.7	4075.2	3608.4	3142.4	2664.8	2160.2	1677.7	1350.3	1150.8	1071.3	1044.2
17.5°	4148.9	3888.2	3327.5	2760.7	2165.0	1554.7	1127.5	947.4	870.8	844.7	836.0
20°	4008.4	3699.4	3035.8	2361.7	1643.9	1086.9	880.6	801.1	770.1	762.3	758.5
22.5°	3872.8	3513.4	2756.9	1934.5	1180.8	838.9	756.6	723.6	718.7	725.6	725.6
25°	3757.5	3346.8	2455.6	1487.9	867.0	706.1	677.1	669.3	687.7	713.0	717.8
27.5°	3671.3	3210.2	2135.0	1098.4	690.7	614.2	613.2	625.7	671.3	719.7	729.5
30°	3612.2	3080.4	1792.1	792.4	579.3	540.5	556.0	583.2	650.0	718.7	737.1
32.5°	3582.2	2984.5	1434.6	613.2	495.9	474.6	500.8	533.8	599.7	663.6	687.7
35°	3605.4	2913.8	1097.5	511.5	437.8	421.4	448.5	480.5	519.2	546.4	564.8
37.5°	3692.6	2885.7	828.2	458.2	398.1	382.6	404.0	422.4	437.8	445.6	454.3
40°	3880.6	2915.7	663.6	431.1	375.8	356.5	365.2	371.9	381.7	389.4	393.3
42.5°	4157.6	3005.8	594.7	420.4	364.3	336.1	334.2	337.1	349.6	364.3	367.1
45°	4545.1	3164.7	589.9	427.2	358.4	319.7	311.0	314.9	334.2	356.5	360.4
47.5°	5040.1	3406.8	628.7	447.5	363.2	311.0	296.5	301.3	325.5	355.5	360.4
50°	5639.6	3744.9	693.6	477.5	384.5	312.9	291.5	294.5	319.7	352.6	357.4
52.5°	6347.7	4224.4	764.2	506.7	406.8	325.5	295.4	288.7	311.9	340.9	346.8
55°	7135.3	4839.5	837.0	532.8	418.5	340.9	303.2	280.9	297.4	321.6	326.4
57.5°	8102.1	5699.7	962.9	557.9	426.3	351.6	311.0	273.1	279.0	296.5	300.3
60°	9410.7	6916.4	1184.7	599.7	443.7	355.5	310.0	266.4	260.5	270.3	272.2
62.5°	10979.0	8237.6	1369.7	651.9	472.7	358.4	304.1	261.6	245.1	245.1	247.0
65°	11909.9	8591.3	1267.0	695.5	496.9	355.5	297.4	256.7	233.4	222.8	223.7
67.5°	11120.4	7555.7	1085.9	704.2	495.9	342.0	286.7	248.0	221.9	205.4	204.4
69°	10131.4	6519.2	1004.5	681.0	472.7	324.5	273.1	238.2	213.1	195.7	194.7
70°	9334.2	5886.7	951.2	655.8	447.5	311.9	262.5	229.6	206.3	189.9	187.9
72.5°	6786.6	3857.2	812.7	563.7	369.1	261.6	226.7	201.5	184.0	174.4	172.5
75°	3391.4	1839.6	659.7	457.3	282.8	209.2	186.0	168.6	159.8	157.9	156.9
77.5°	1114.0	842.7	471.8	340.9	210.2	163.7	150.2	137.6	135.6	141.5	139.5
80°	612.2	490.2	299.3	225.7	143.3	120.1	118.2	111.4	114.3	124.0	122.0
82.5°	311.9	254.7	185.1	135.6	96.9	86.2	94.0	90.1	94.0	102.7	101.7
85°	154.1	139.5	117.2	82.3	63.9	55.2	66.8	69.8	71.7	78.5	78.5
87.5°	89.1	82.3	62.0	38.8	31.9	29.1	38.8	37.7	44.6	48.4	47.5
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)