

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: P192044

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192044
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-SL4-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 27332 lumens
Efficiency: N/A
Efficacy: 109.8 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): 249
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

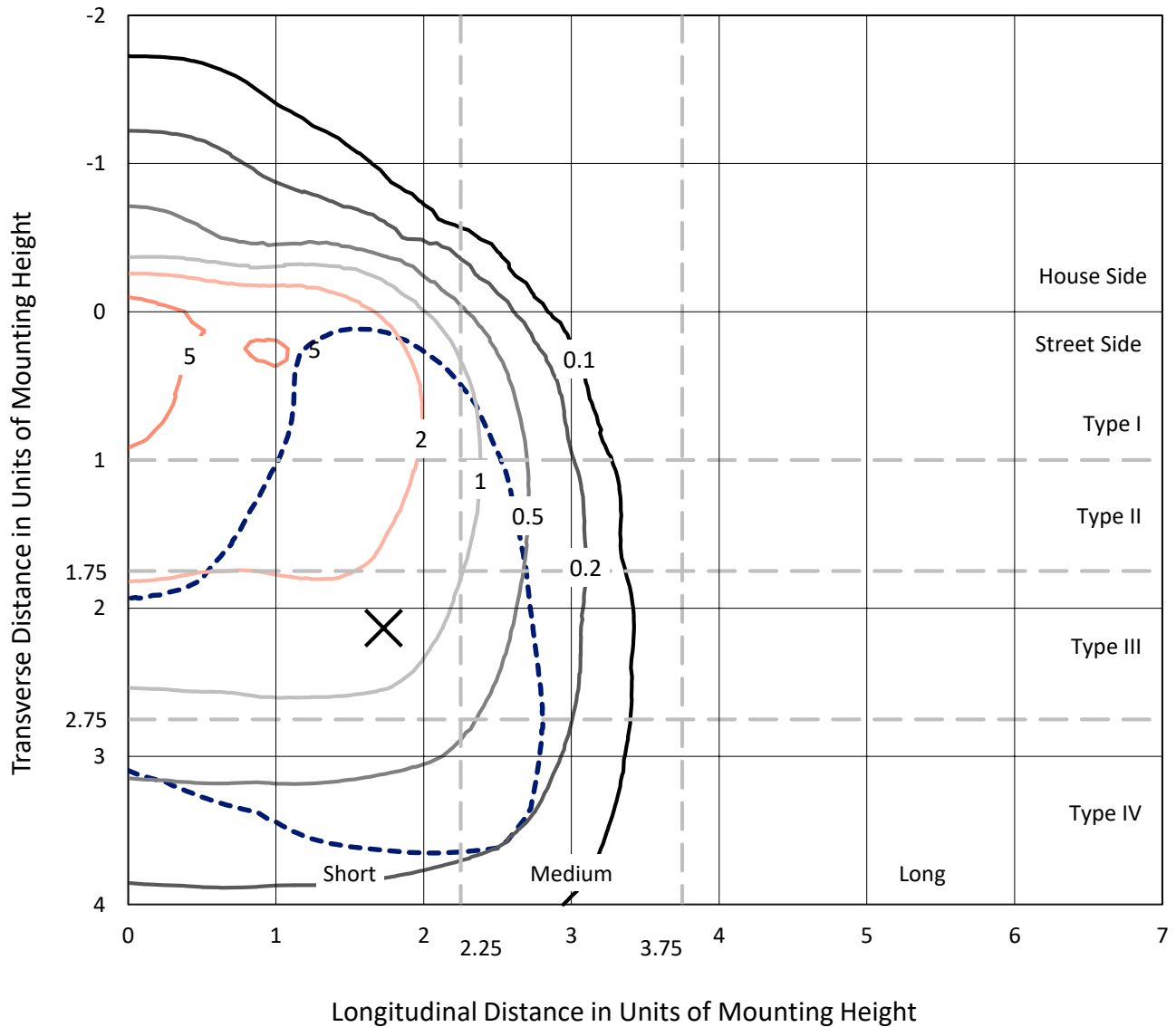


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

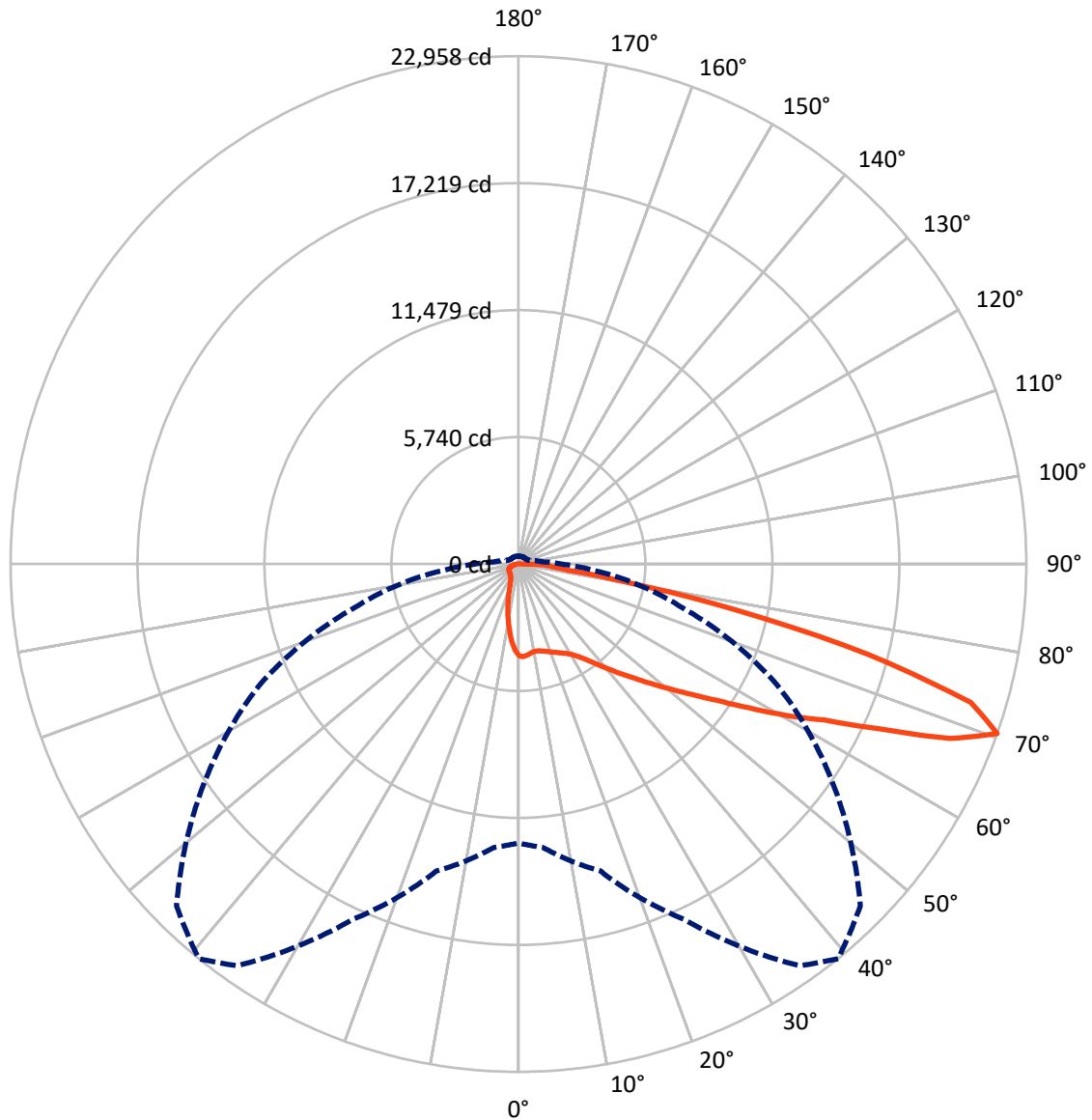


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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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	3108.6	0.0	3108.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	24223.4	0.0	24223.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	27332.0	0.0	27332.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.1	1.3
10°-20°	890.1	3.3
20°-30°	1385.9	5.1
30°-40°	2159.0	7.9
40°-50°	3624.6	13.3
50°-60°	5758.0	21.1
60°-70°	7680.6	28.1
70°-80°	4638.1	17.0
80°-90°	839.4	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°	27332.0	100.0
0°-180°	27332.0	100.0



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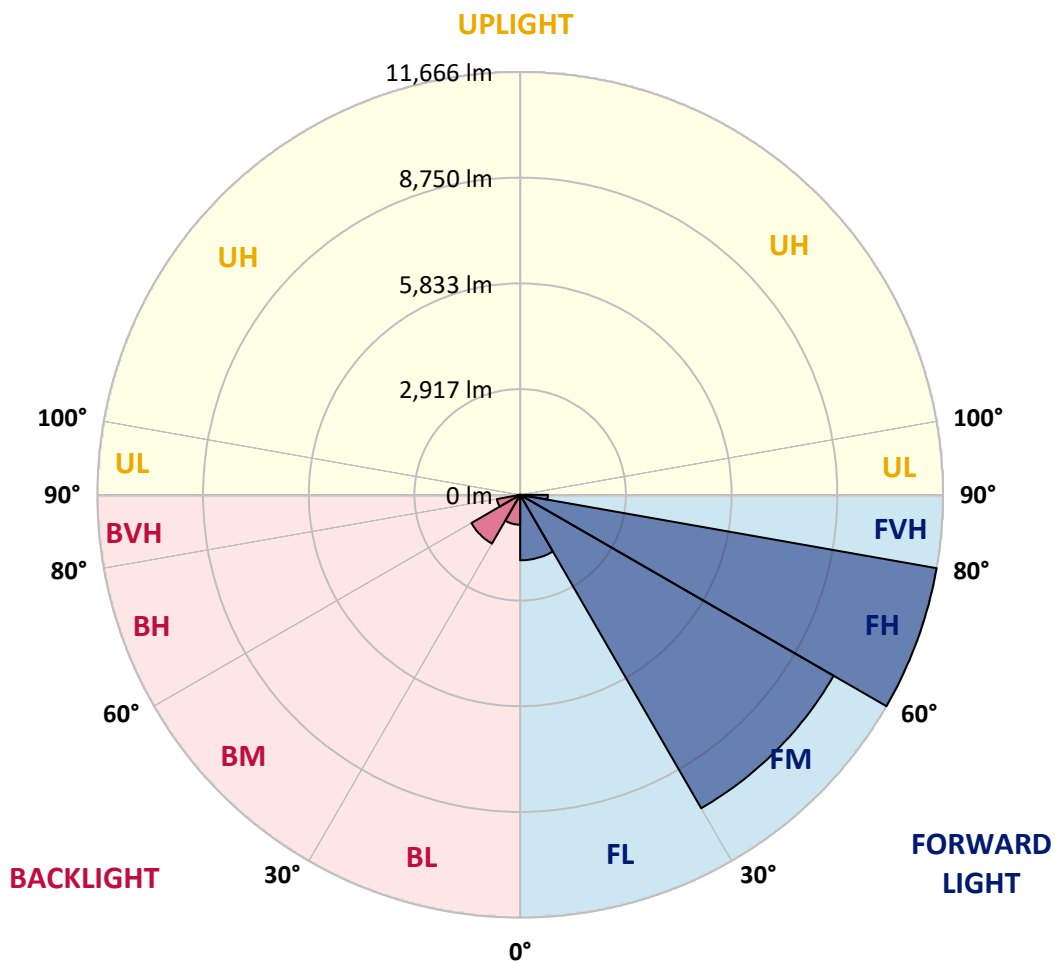
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1807.5	6.6			
FM (30°-60°)	9986.1	36.5			
FH (60°-80°)	11666.1	42.7			G4/12000
FVH (80°-90°)	763.8	2.8			G5
BL (0°-30°)	824.6	3.0	B2/1000		
BM (30°-60°)	1555.7	5.7	B2/2500		
BH (60°-80°)	652.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	75.7	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°	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4
2.5°	4230.0	4228.6	4217.5	4209.2	4202.2	4199.4	4205.0	4184.2	4166.1	4143.9	4120.2
5°	4198.1	4196.7	4178.6	4161.9	4145.3	4139.7	4138.3	4100.8	4078.6	4045.2	4000.7
7.5°	4163.3	4156.4	4132.7	4105.0	4075.8	4061.9	4048.0	3999.3	3974.3	3941.0	3889.6
10°	4127.2	4118.8	4096.6	4068.8	4041.0	4020.2	3996.6	3949.3	3922.9	3897.9	3838.1
12.5°	4089.7	4082.7	4077.2	4064.7	4045.2	4027.1	4009.1	3968.8	3941.0	3911.8	3842.3
15°	4084.1	4081.3	4093.8	4102.2	4091.1	4079.9	4060.5	4025.7	3996.6	3967.4	3877.1
17.5°	4128.6	4127.2	4159.1	4181.4	4175.8	4156.4	4130.0	4091.1	4067.4	4042.4	3929.9
20°	4225.9	4232.8	4271.7	4300.9	4273.1	4245.3	4202.2	4148.0	4135.5	4124.4	3984.1
22.5°	4409.3	4416.2	4444.0	4455.1	4382.9	4342.6	4282.8	4213.3	4205.0	4213.3	4049.4
25°	4695.5	4688.6	4684.4	4642.7	4510.7	4448.2	4371.8	4299.5	4303.7	4341.2	4141.1
27.5°	5074.9	5037.4	4979.0	4854.0	4644.1	4574.6	4481.5	4414.8	4441.2	4513.5	4278.7
30°	5468.2	5426.5	5291.7	5087.4	4819.2	4742.8	4638.6	4563.5	4633.0	4747.0	4462.1
32.5°	5832.3	5826.7	5629.4	5366.7	5061.0	4994.3	4890.1	4805.3	4917.9	5091.6	4737.2
35°	6229.7	6242.2	6006.0	5690.5	5387.6	5318.1	5243.1	5179.1	5329.2	5568.2	5136.1
37.5°	6654.9	6679.9	6400.6	6044.9	5760.0	5730.8	5686.3	5658.6	5890.6	6221.4	5693.3
40°	7223.3	7198.3	6810.6	6445.1	6217.2	6215.8	6201.9	6235.2	6621.6	7074.6	6409.0
42.5°	7831.9	7758.3	7245.5	6874.5	6718.8	6766.1	6793.9	6930.1	7501.2	8111.2	7281.6
45°	8487.8	8322.5	7697.1	7328.9	7276.1	7376.1	7470.6	7766.6	8536.5	9291.0	8237.7
47.5°	9011.7	8851.9	8164.0	7805.5	7920.9	8072.3	8254.4	8722.7	9695.4	10509.7	9181.3
50°	9424.4	9320.2	8635.1	8361.4	8631.0	8864.4	9161.8	9805.2	10901.6	11696.5	10055.3
52.5°	9824.7	9746.8	9110.4	8931.1	9464.7	9787.1	10191.5	10966.9	12138.4	12863.8	10790.4
55°	10186.0	10130.4	9621.8	9641.2	10445.8	10865.5	11374.1	12289.8	13486.3	13904.6	11413.0
57.5°	10593.1	10522.2	10205.4	10532.0	11706.2	12250.9	12912.4	13776.7	14750.9	14830.1	11886.9
60°	11003.1	10941.9	10853.0	11560.3	13307.1	13879.6	14506.3	15217.8	16033.5	15548.5	11859.1
62.5°	11358.8	11365.7	11522.8	12640.0	14874.5	15537.4	16301.7	17004.8	17193.8	15673.6	10982.2
65°	11961.9	12071.7	12540.0	14168.6	17081.3	17967.9	18905.9	18793.3	17514.8	14504.9	9102.0
67.5°	12678.9	12872.1	13821.2	16205.8	19870.3	21047.3	21410.0	19197.7	16229.4	11791.0	6488.2
70°	12606.7	12872.1	14374.3	17724.7	22168.7	22958.0	21857.4	17374.5	12887.4	7702.7	3446.3
72.5°	11194.8	11574.2	13247.3	17028.5	21444.7	21375.2	18975.3	12952.7	7656.8	3093.3	1346.5
75°	8532.3	8915.8	10355.5	13453.0	16949.3	16365.6	13464.1	7155.2	2905.7	1228.4	849.1
77.5°	4908.2	5205.5	6317.2	8250.2	10752.9	10154.0	7494.2	3182.2	1414.6	856.0	662.9
80°	2740.3	2905.7	3581.1	4185.6	5269.5	4830.3	3353.2	1977.4	1056.1	621.2	511.4
82.5°	2166.4	2313.7	2896.0	2640.3	2406.8	2220.6	1926.0	1760.7	843.5	391.9	305.7
85°	1892.7	2033.0	2451.3	2078.9	1643.9	1507.7	1564.7	1732.9	655.9	236.2	261.2
87.5°	1753.7	1941.3	2184.5	1602.2	1279.8	1133.9	1443.8	1899.6	211.2	147.3	105.6
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°	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4	4149.4
2.5°	4099.4	4077.2	4041.0	4009.1	3959.0	3932.6	3903.5	3882.6	3865.9	3852.0	3874.3
5°	3972.9	3931.3	3854.8	3772.8	3675.6	3599.1	3535.2	3475.5	3433.8	3406.0	3425.4
7.5°	3853.4	3785.3	3665.8	3517.1	3350.4	3208.6	3091.9	2989.1	2918.2	2872.4	2890.4
10°	3785.3	3700.6	3515.8	3282.3	3036.3	2815.4	2632.0	2473.5	2363.8	2301.2	2310.9
12.5°	3768.7	3658.9	3403.2	3082.2	2745.9	2438.8	2180.3	1960.8	1806.5	1725.9	1728.7
15°	3781.2	3640.8	3297.6	2890.4	2465.2	2077.5	1755.1	1488.3	1309.0	1217.3	1215.9
17.5°	3802.0	3626.9	3186.4	2683.4	2180.3	1730.1	1370.2	1108.9	950.5	876.9	871.3
20°	3824.2	3604.7	3061.3	2459.6	1884.3	1407.7	1072.8	868.5	768.5	728.2	725.4
22.5°	3856.2	3585.2	2932.1	2223.4	1593.9	1146.4	882.4	744.8	692.0	671.2	668.4
25°	3907.6	3575.5	2794.5	1977.4	1332.7	958.8	768.5	683.7	653.1	639.2	637.8
27.5°	3993.8	3589.4	2665.3	1738.4	1120.0	832.4	704.5	653.1	630.9	618.4	617.0
30°	4105.0	3632.5	2529.1	1511.9	954.7	746.2	665.6	632.3	614.2	601.7	601.7
32.5°	4289.8	3704.7	2386.0	1316.0	836.6	686.5	636.4	614.2	598.9	589.2	587.8
35°	4562.1	3840.9	2252.6	1153.4	751.8	643.4	611.4	594.8	583.6	578.1	578.1
37.5°	4958.2	4056.3	2134.5	1036.7	700.4	614.2	587.8	575.3	568.4	568.4	568.4
40°	5490.4	4353.7	2038.6	958.8	671.2	593.4	569.7	560.0	555.9	557.2	557.2
42.5°	6147.7	4740.0	1974.7	904.6	657.3	580.9	557.2	548.9	544.7	543.3	544.7
45°	6896.7	5179.1	1967.7	864.3	643.4	572.5	548.9	540.6	532.2	526.7	526.7
47.5°	7624.9	5625.2	2024.7	850.5	628.1	562.8	542.0	533.6	521.1	508.6	508.6
50°	8268.3	6004.6	2101.1	856.0	622.6	548.9	530.8	526.7	507.2	493.3	491.9
52.5°	8779.7	6296.4	2163.6	872.7	628.1	539.2	516.9	518.3	497.5	482.2	480.8
55°	9189.6	6488.2	2147.0	889.4	640.6	533.6	504.4	507.2	490.5	475.3	475.3
57.5°	9368.9	6417.3	1962.2	875.5	650.3	535.0	494.7	505.8	491.9	478.0	478.0
60°	8983.9	5787.8	1616.1	814.3	637.8	530.8	490.5	511.4	510.0	496.1	494.7
62.5°	7819.4	4660.8	1253.4	724.0	594.8	510.0	479.4	510.0	525.3	521.1	519.7
65°	6026.8	3319.8	957.5	626.7	536.4	475.3	450.2	478.0	498.9	504.4	503.0
67.5°	3911.8	2034.4	737.9	535.0	471.1	435.0	412.7	425.2	429.4	429.4	426.6
70°	1923.2	1095.0	587.8	450.2	404.4	391.9	379.4	372.4	365.5	359.9	359.9
72.5°	949.1	715.7	483.6	380.8	348.8	343.2	340.5	332.1	326.6	319.6	316.8
75°	701.8	582.3	411.3	321.0	300.2	294.6	300.2	293.2	291.8	286.3	283.5
77.5°	576.7	496.1	354.4	275.1	257.1	247.4	255.7	257.1	258.5	250.1	247.4
80°	468.3	419.7	296.0	227.9	211.2	204.3	209.8	221.0	223.7	211.2	205.7
82.5°	337.7	343.2	239.0	177.9	164.0	158.4	169.5	183.4	186.2	168.1	164.0
85°	283.5	286.3	183.4	126.5	112.6	104.2	122.3	136.2	145.9	127.8	123.7
87.5°	118.1	168.1	105.6	70.9	62.5	54.2	65.3	72.3	87.5	80.6	79.2
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)