

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: P192012

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7050-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-SL4-7050-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19488 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4

Input Watts (W): 225  
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

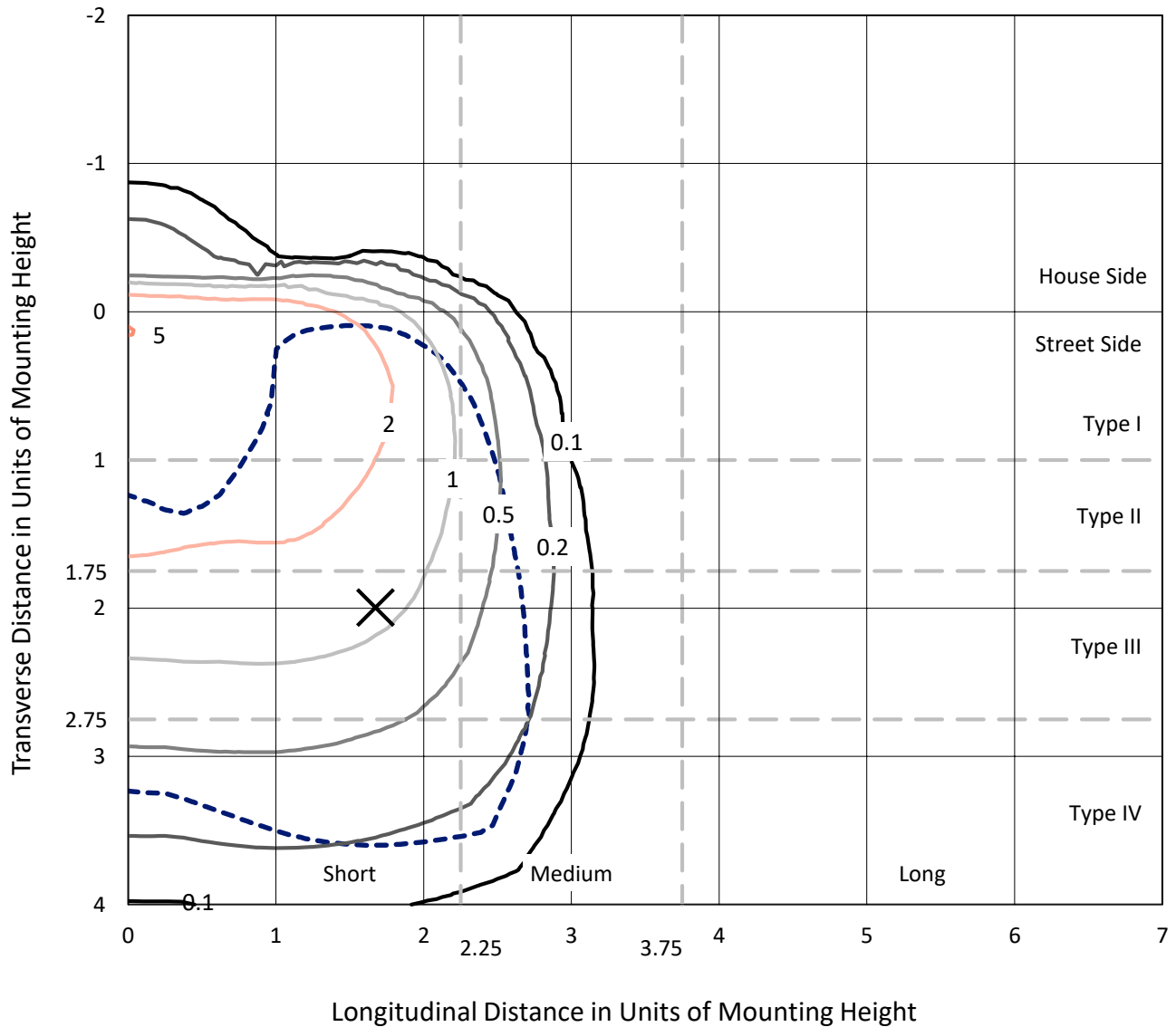


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

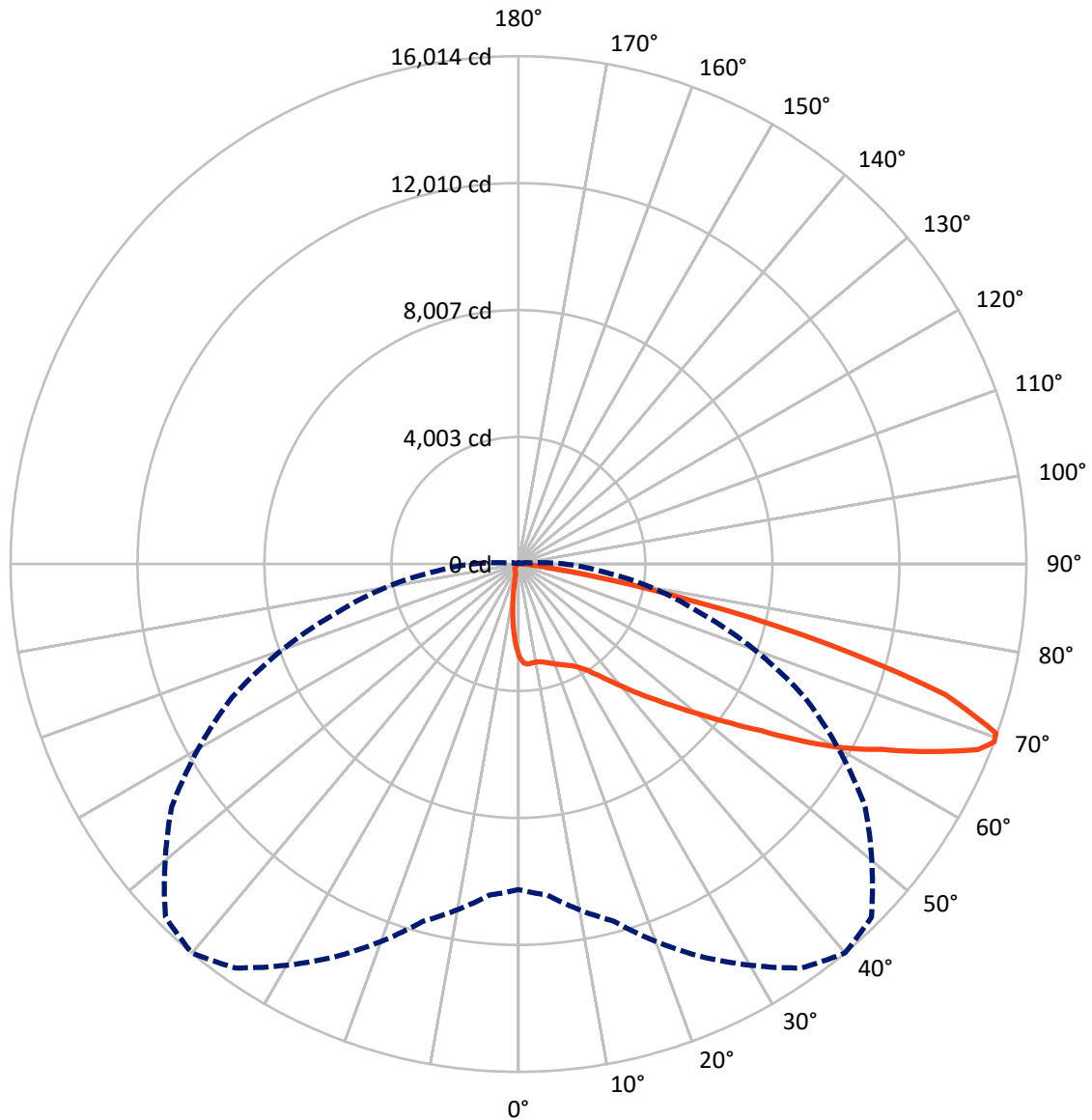


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1140.2	0.0	1140.2
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	18347.8	0.0	18347.8
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	19488.0	0.0	19488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.1	1.2
10°-20°	580.5	3.0
20°-30°	977.8	5.0
30°-40°	1600.8	8.2
40°-50°	2771.7	14.2
50°-60°	4365.7	22.4
60°-70°	5701.4	29.3
70°-80°	2936.5	15.1
80°-90°	317.6	1.6
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°	19488.0	100.0
0°-180°	19488.0	100.0

**Coefficient of Utilization**



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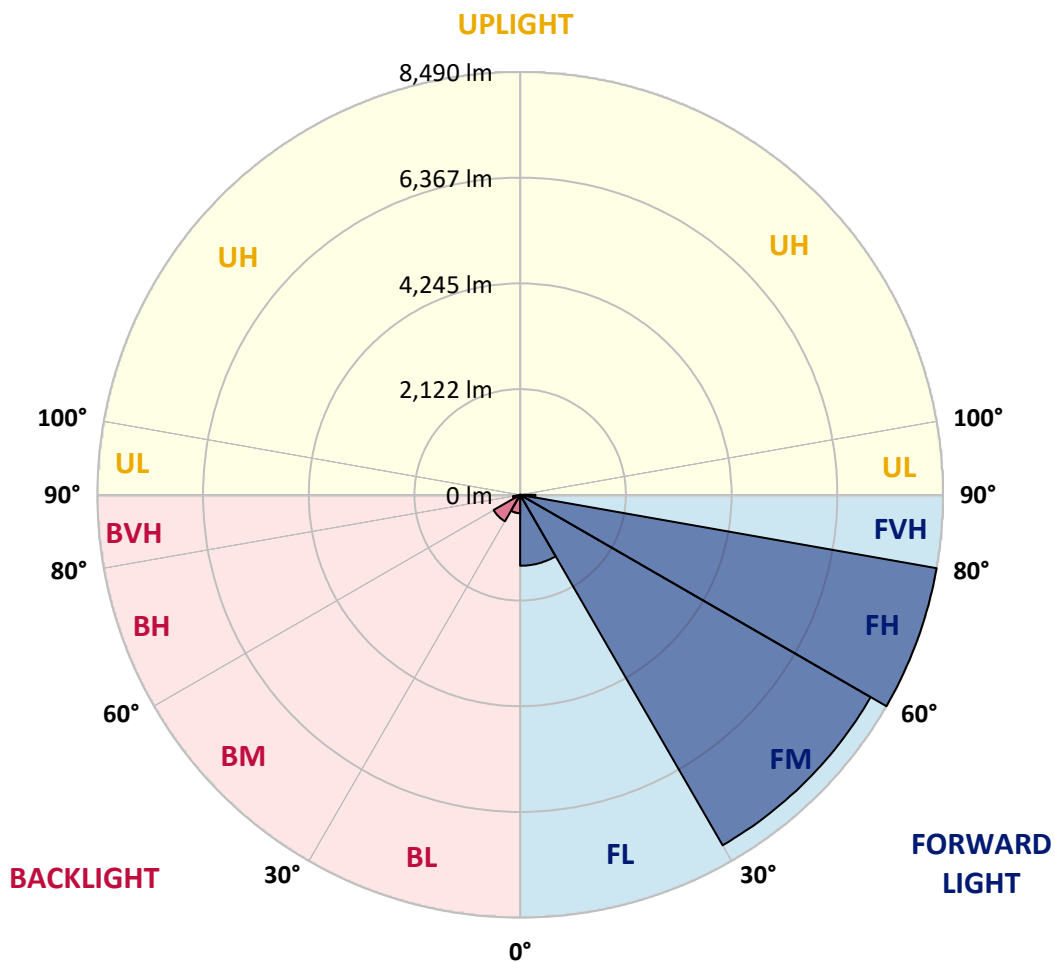
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.1	7.3			
FM	(30°-60°)	8125.3	41.7			
FH	(60°-80°)	8489.8	43.6			G4/12000
FVH	(80°-90°)	307.7	1.6			G3/500
BL	(0°-30°)	369.3	1.9	B1/500		
BM	(30°-60°)	612.8	3.1	B1/1000		
BH	(60°-80°)	148.0	0.8	B1/500		G1/500
BVH	(80°-90°)	10.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6
2.5°	3197.0	3179.6	3169.1	3155.2	3137.8	3122.7	3116.9	3074.0	3033.4	2977.7	2913.9
5°	3256.1	3250.3	3231.8	3213.2	3192.3	3169.1	3156.4	3105.3	3047.3	2966.1	2854.8
7.5°	3261.9	3255.0	3231.8	3206.2	3177.2	3149.4	3127.4	3076.3	3023.0	2940.6	2804.9
10°	3252.6	3244.5	3227.1	3199.3	3163.3	3136.6	3114.6	3065.9	3020.6	2946.4	2795.6
12.5°	3242.2	3234.1	3226.0	3212.0	3180.7	3162.2	3143.6	3097.2	3056.6	2994.0	2829.2
15°	3252.6	3248.0	3257.3	3251.5	3234.1	3217.8	3199.3	3157.5	3120.4	3068.2	2890.7
17.5°	3296.7	3296.7	3325.7	3329.2	3313.0	3289.8	3263.1	3221.3	3190.0	3145.9	2963.8
20°	3400.0	3396.5	3433.6	3440.6	3401.1	3365.2	3325.7	3274.7	3250.3	3222.5	3035.7
22.5°	3577.4	3561.2	3583.2	3576.3	3498.6	3442.9	3394.2	3331.5	3318.8	3306.0	3115.8
25°	3808.3	3799.0	3814.1	3745.6	3608.8	3533.4	3475.4	3404.6	3404.6	3417.4	3206.2
27.5°	4143.5	4108.7	4057.7	3937.1	3731.7	3635.4	3572.8	3497.4	3517.1	3564.7	3325.7
30°	4486.9	4448.6	4331.5	4145.9	3881.4	3780.4	3707.4	3628.5	3674.9	3761.9	3485.8
32.5°	4825.6	4782.7	4616.8	4382.5	4096.0	3995.1	3924.3	3837.3	3915.0	4061.2	3720.1
35°	5153.9	5115.6	4924.2	4648.1	4381.3	4297.8	4232.9	4157.5	4257.2	4461.4	4050.7
37.5°	5522.8	5481.0	5247.9	4948.6	4728.2	4667.9	4620.3	4544.9	4718.9	5018.2	4511.3
40°	5976.3	5905.6	5591.2	5293.1	5129.5	5100.5	5068.1	5057.6	5327.9	5742.0	5124.9
42.5°	6496.0	6380.0	5950.8	5656.2	5570.3	5591.2	5583.1	5629.5	6090.0	6642.2	5871.9
45°	7015.7	6866.1	6351.0	6043.6	6055.2	6128.3	6173.5	6359.1	7044.7	7674.6	6675.8
47.5°	7456.5	7309.2	6735.0	6462.4	6601.6	6745.4	6868.4	7219.9	8026.1	8690.7	7301.1
50°	7833.5	7694.3	7142.1	6922.9	7236.1	7468.1	7667.6	8188.5	9081.7	9464.5	7739.5
52.5°	8142.1	8049.3	7564.4	7450.7	7961.1	8301.0	8593.3	9217.4	10016.6	10093.2	8080.6
55°	8442.5	8376.4	8017.9	8078.3	8812.5	9275.4	9645.4	10308.9	10821.7	10617.5	8407.7
57.5°	8788.2	8727.9	8535.3	8874.0	9931.9	10514.3	10917.9	11276.4	11530.4	11153.4	8716.3
60°	9140.8	9106.0	9110.7	9757.9	11217.2	11776.3	11999.1	12091.9	12226.4	11658.0	8733.7
62.5°	9477.2	9543.3	9768.4	10741.6	12448.0	12877.2	12989.7	13081.4	12923.6	11738.1	8069.0
65°	10046.8	10154.7	10691.7	12058.2	13801.7	14261.1	14377.1	14062.7	13033.8	10703.3	6563.3
67.5°	10325.2	10522.4	11480.5	13285.5	15114.8	15625.2	15582.3	14126.5	11696.3	8161.8	4212.0
69°	10267.2	10477.1	11662.7	13661.4	15551.0	16013.8	15741.2	13345.8	9964.4	5912.5	2585.6
70°	10037.5	10249.8	11568.7	13647.4	15606.7	15973.2	15446.6	12381.9	8425.1	4323.3	1617.0
72.5°	8382.2	8565.5	10270.7	12335.5	14377.1	14079.0	12922.4	8578.2	4105.3	1177.4	364.2
75°	5159.7	5261.8	7369.5	9292.8	10858.8	10093.2	8609.5	4267.7	1223.8	332.9	201.8
77.5°	2726.0	2772.4	4034.5	5477.5	6883.5	5695.6	4412.7	1664.6	563.8	208.8	146.2
80°	1611.2	1646.0	2172.7	2504.4	2978.9	2488.2	1764.4	1022.0	403.7	131.1	129.9
82.5°	922.2	944.2	1575.3	1392.0	1173.9	1002.2	878.1	968.6	242.4	88.2	134.6
85°	338.7	343.4	886.2	1059.1	698.3	415.3	436.2	802.7	65.0	55.7	105.6
87.5°	157.8	154.3	455.9	648.4	408.3	263.3	339.9	176.3	25.5	36.0	29.0
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°	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6	2911.6
2.5°	2876.8	2833.9	2756.2	2676.1	2594.9	2532.3	2470.8	2422.1	2405.8	2375.7	2378.0
5°	2788.6	2709.8	2547.4	2382.6	2211.0	2069.4	1936.0	1828.2	1776.0	1722.6	1722.6
7.5°	2712.1	2597.2	2343.2	2075.2	1798.0	1564.8	1354.9	1197.1	1110.1	1040.5	1039.4
10°	2683.1	2527.6	2172.7	1788.7	1402.4	1084.6	835.2	675.1	592.8	539.4	537.1
12.5°	2695.8	2503.3	2041.6	1524.2	1039.4	697.2	483.7	380.5	345.7	329.4	329.4
15°	2733.0	2496.3	1910.5	1265.6	734.3	436.2	321.3	293.5	291.2	291.2	291.2
17.5°	2778.2	2498.6	1776.0	1013.8	500.0	312.0	277.2	273.8	276.1	276.1	276.1
20°	2824.6	2499.8	1631.0	780.7	352.6	271.4	261.0	259.8	262.2	262.2	263.3
22.5°	2881.4	2505.6	1486.0	583.5	291.2	256.4	248.2	248.2	249.4	249.4	248.2
25°	2946.4	2517.2	1335.2	432.7	265.6	245.9	239.0	237.8	239.0	237.8	236.6
27.5°	3027.6	2533.4	1167.0	338.7	254.0	235.5	229.7	229.7	228.5	227.4	226.2
30°	3129.7	2552.0	977.9	287.7	242.4	226.2	220.4	219.2	218.1	215.8	215.8
32.5°	3285.1	2592.6	791.1	261.0	229.7	213.4	208.8	208.8	206.5	204.2	203.0
35°	3524.1	2672.6	624.1	244.8	215.8	199.5	193.7	193.7	191.4	190.2	189.1
37.5°	3854.7	2794.4	484.9	229.7	201.8	184.4	178.6	177.5	175.2	172.8	171.7
40°	4294.3	2945.2	381.6	215.8	187.9	169.4	164.7	162.4	157.8	154.3	154.3
42.5°	4846.5	3116.9	309.7	200.7	171.7	155.4	152.0	148.5	140.4	136.9	135.7
45°	5424.2	3271.2	262.2	183.3	155.4	141.5	139.2	133.4	123.0	119.5	119.5
47.5°	5840.6	3307.2	230.8	167.0	140.4	126.4	125.3	114.8	105.6	103.2	102.1
50°	6100.5	3236.4	205.3	150.8	126.4	112.5	109.0	96.3	90.5	88.2	87.0
52.5°	6275.6	3110.0	184.4	136.9	113.7	99.8	91.6	82.4	77.7	75.4	75.4
55°	6416.0	2931.3	163.6	124.1	103.2	89.3	77.7	70.8	66.1	63.8	63.8
57.5°	6455.4	2688.9	142.7	113.7	92.8	78.9	66.1	61.5	55.7	54.5	54.5
60°	6168.9	2251.6	126.4	100.9	83.5	68.4	58.0	52.2	46.4	45.2	44.1
62.5°	5413.7	1742.3	111.4	89.3	73.1	59.2	49.9	42.9	38.3	38.3	38.3
65°	4129.6	1168.1	97.4	77.7	63.8	49.9	42.9	34.8	32.5	32.5	33.6
67.5°	2472.0	635.7	83.5	66.1	54.5	41.8	36.0	30.2	29.0	30.2	30.2
69°	1448.8	373.5	75.4	59.2	47.6	37.1	31.3	26.7	29.0	30.2	30.2
70°	894.4	251.7	69.6	53.4	42.9	33.6	29.0	25.5	27.8	29.0	29.0
72.5°	249.4	129.9	55.7	41.8	34.8	27.8	23.2	23.2	26.7	27.8	27.8
75°	162.4	96.3	42.9	31.3	26.7	22.0	19.7	22.0	25.5	26.7	26.7
77.5°	134.6	78.9	34.8	25.5	22.0	20.9	18.6	19.7	23.2	24.4	24.4
80°	123.0	55.7	27.8	23.2	19.7	18.6	17.4	16.2	20.9	22.0	22.0
82.5°	117.2	44.1	24.4	20.9	18.6	16.2	15.1	16.2	18.6	19.7	20.9
85°	73.1	29.0	22.0	19.7	16.2	15.1	15.1	15.1	17.4	18.6	18.6
87.5°	26.7	23.2	19.7	16.2	13.9	13.9	13.9	13.9	15.1	17.4	17.4
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)