

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: P193583

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
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-SL2-8030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16246 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 210  
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

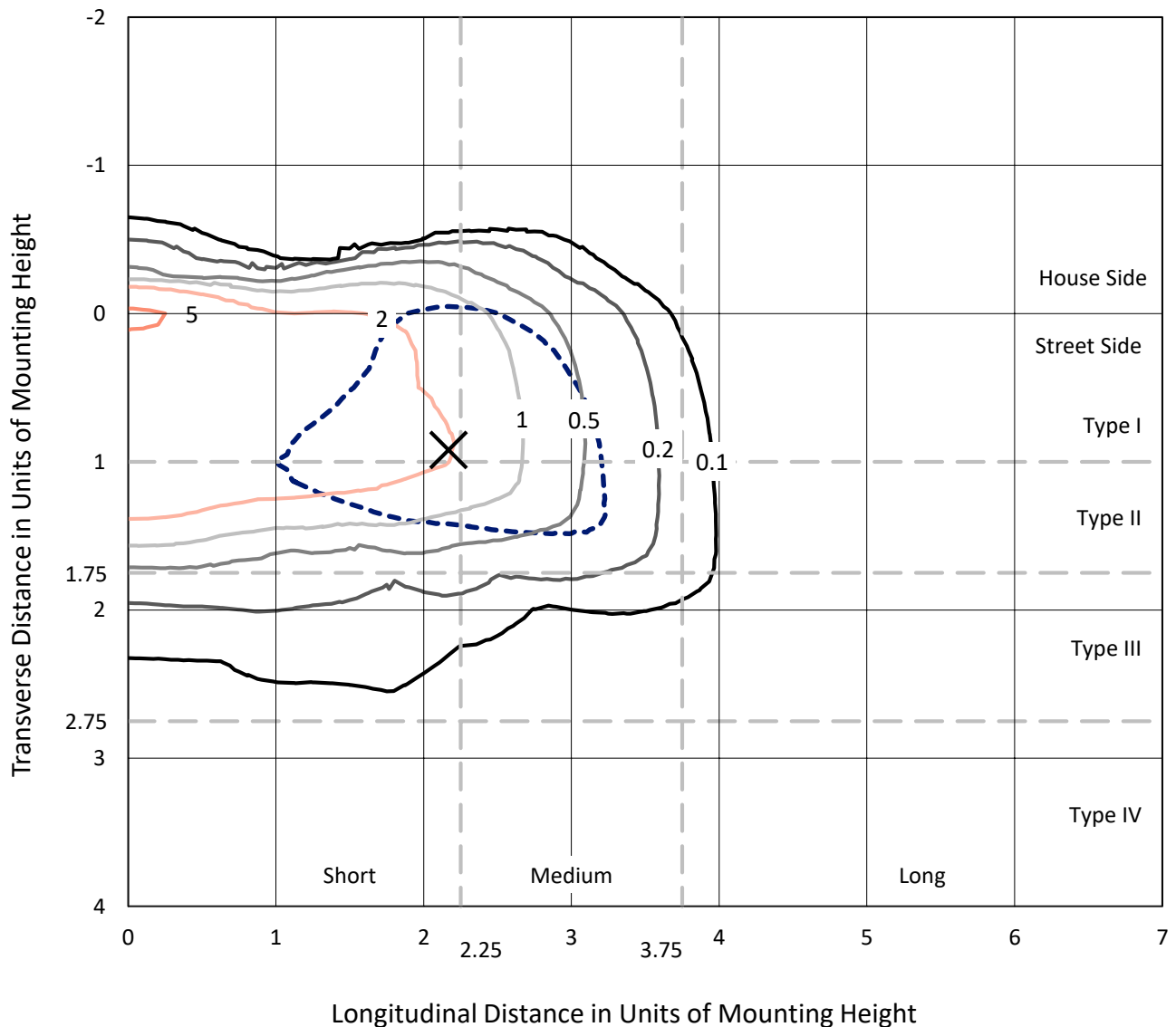


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

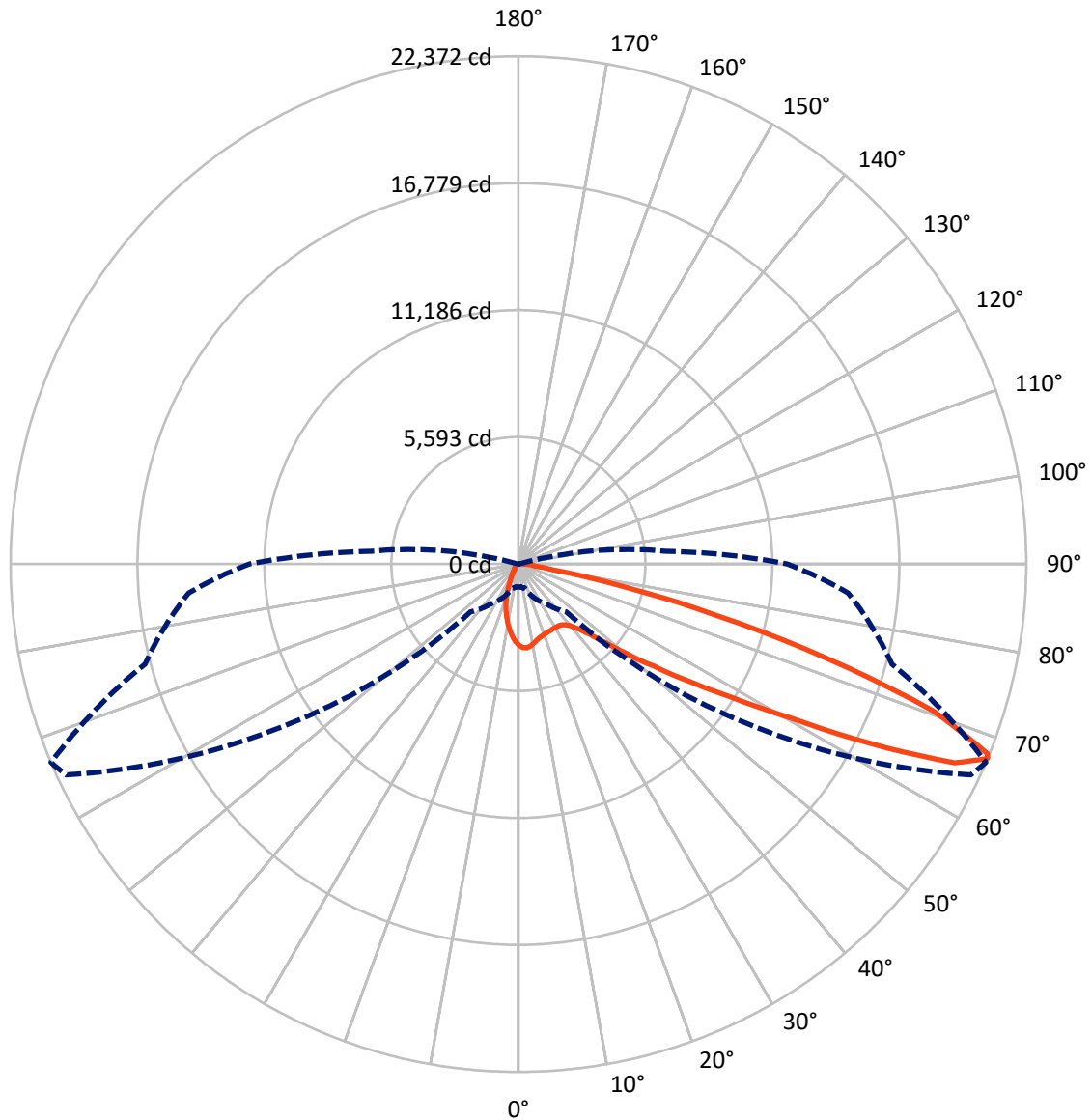


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1686.8	0.0	1686.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	14559.2	0.0	14559.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	16246.0	0.0	16246.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.5	1.8
10°-20°	620.5	3.8
20°-30°	902.1	5.6
30°-40°	1407.4	8.7
40°-50°	2493.1	15.3
50°-60°	3945.1	24.3
60°-70°	4518.5	27.8
70°-80°	1874.2	11.5
80°-90°	193.6	1.2
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°	16246.0	100.0
0°-180°	16246.0	100.0

**Coefficient of Utilization**



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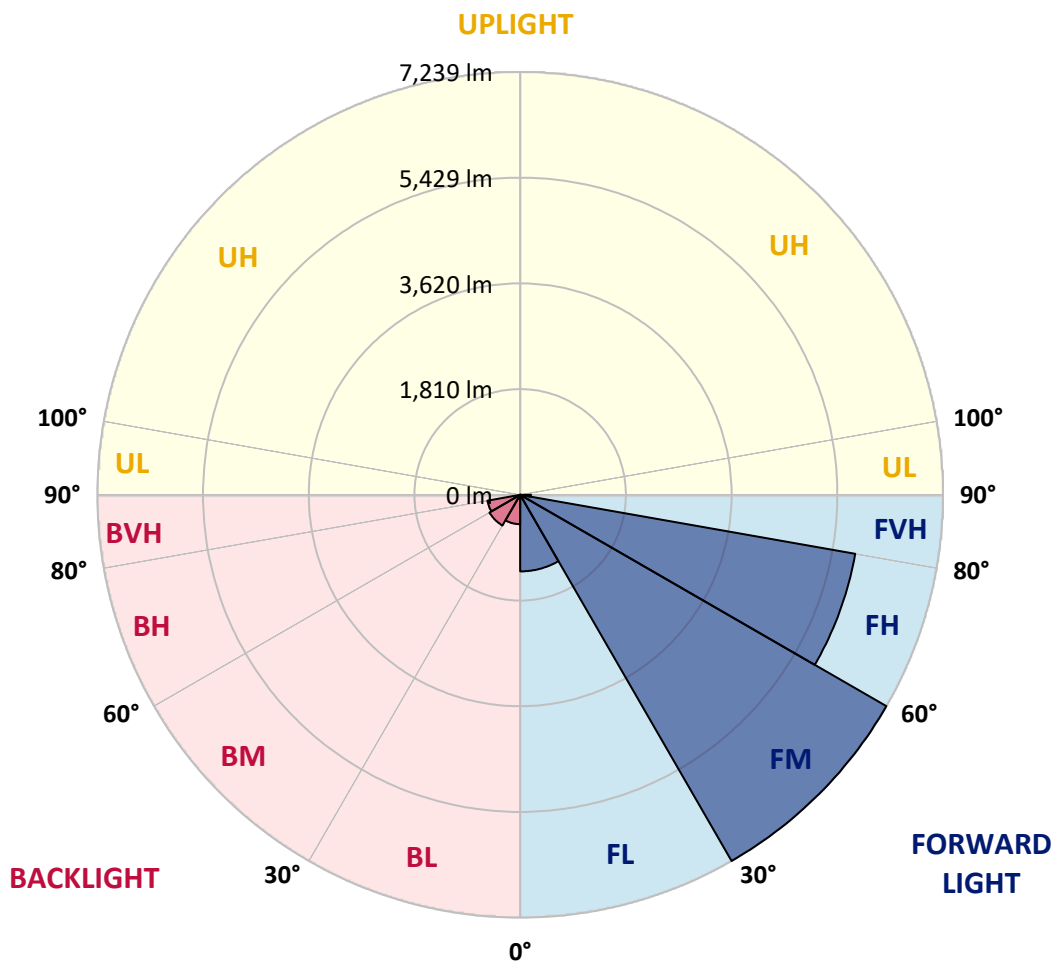
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.8	8.1			
FM	(30°-60°)	7239.3	44.6			
FH	(60°-80°)	5824.2	35.9			G3/7500
FVH	(80°-90°)	184.9	1.1			G2/225
BL	(0°-30°)	503.3	3.1	B2/1000		
BM	(30°-60°)	606.2	3.7	B1/1000		
BH	(60°-80°)	568.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8
2.5°	3704.1	3711.7	3710.8	3716.5	3729.7	3730.7	3717.4	3691.8	3686.1	3653.0	3595.2
5°	3416.1	3437.9	3451.1	3505.1	3565.8	3638.8	3693.7	3713.6	3710.8	3687.1	3599.9
7.5°	3087.3	3109.0	3124.2	3187.7	3268.2	3393.3	3536.4	3653.9	3664.3	3689.9	3596.1
10°	2868.4	2872.1	2893.0	2953.6	3038.0	3165.9	3336.5	3542.1	3573.4	3667.2	3586.6
12.5°	2688.3	2691.2	2718.6	2784.0	2874.0	3002.9	3182.0	3419.9	3468.2	3638.8	3584.7
15°	2560.4	2570.8	2595.5	2663.7	2759.4	2887.3	3071.1	3329.8	3387.6	3628.3	3601.8
17.5°	2517.8	2529.1	2536.7	2586.0	2673.2	2798.2	2986.8	3271.1	3336.5	3634.0	3635.0
20°	2562.3	2570.8	2553.8	2566.1	2620.1	2731.9	2915.7	3220.9	3298.6	3640.6	3677.6
22.5°	2728.1	2731.9	2685.5	2631.5	2622.0	2683.6	2859.8	3181.1	3264.5	3658.7	3727.8
25°	3012.4	3005.8	2930.0	2813.4	2703.5	2675.1	2826.7	3156.4	3247.4	3677.6	3779.9
27.5°	3355.4	3364.9	3260.7	3091.0	2881.6	2731.9	2821.9	3146.0	3239.8	3690.9	3825.4
30°	3772.4	3785.6	3666.2	3453.0	3152.6	2872.1	2865.5	3144.1	3235.1	3682.3	3829.2
32.5°	4197.8	4213.9	4120.1	3900.3	3514.6	3107.2	2964.1	3165.0	3244.6	3653.0	3807.4
35°	4643.2	4665.9	4603.4	4414.8	4005.5	3446.4	3137.5	3228.4	3289.1	3650.1	3785.6
37.5°	5258.2	5279.0	5161.5	4961.6	4599.6	3901.2	3416.1	3347.8	3394.3	3695.6	3791.3
40°	6176.4	6173.6	5870.3	5564.3	5252.5	4479.3	3807.4	3563.9	3587.6	3833.0	3861.4
42.5°	7177.1	7172.3	6724.1	6258.8	5977.4	5190.9	4322.0	3937.2	3921.1	4086.0	4043.4
45°	7948.4	7947.4	7581.7	7057.7	6850.1	6007.7	4987.2	4456.5	4431.9	4497.3	4378.8
47.5°	8277.2	8282.9	8099.1	7730.5	7817.6	7112.6	5825.8	5208.9	5172.0	5145.4	4965.4
50°	8021.4	8032.7	8047.9	7975.9	8527.4	8597.5	6950.6	6269.3	6251.3	6132.8	5851.4
52.5°	7185.6	7243.4	7421.5	7649.9	8773.7	10022.7	8714.1	7586.4	7489.8	7363.7	7053.9
55°	5777.5	5841.0	6179.2	6733.6	8407.0	10958.9	11185.4	9284.5	9123.4	8747.2	8300.0
57.5°	3823.5	3922.1	4412.9	5117.9	7341.9	11109.6	13651.0	11641.2	11080.2	10050.2	9546.0
60°	2106.5	2201.3	2733.8	3372.5	5302.7	10364.8	15309.3	14709.5	13718.3	11506.6	11059.3
62.5°	1297.3	1348.4	1741.7	2335.8	3180.1	8180.6	15652.3	18565.2	17417.7	13381.9	12887.2
65°	1032.9	1054.7	1247.0	1909.4	2279.9	4865.9	14544.6	21504.6	21121.8	15652.3	14523.7
67°	1002.6	1011.1	1102.0	1639.3	2149.1	2983.0	12185.1	21983.2	22371.7	17026.3	14574.9
67.5°	1009.2	1018.7	1104.9	1564.5	2145.3	2741.4	11372.0	21794.6	22285.5	17135.3	14348.4
70°	973.2	1002.6	1265.0	1563.5	2040.2	2278.0	6810.3	18883.6	19394.4	15921.4	12174.7
72.5°	344.9	346.8	546.8	1265.0	2218.3	2302.6	3419.9	13843.4	14221.5	12179.4	8777.5
75°	204.7	174.4	181.9	360.1	2119.8	2236.3	1972.9	8845.8	8987.0	6979.0	4445.2
77.5°	141.2	123.2	127.0	159.2	807.3	2205.0	1567.3	4612.9	4462.2	2447.6	946.6
80°	80.5	71.1	75.8	139.3	293.8	2057.2	1478.2	1870.5	1594.8	415.0	261.5
82.5°	42.6	36.0	43.6	114.7	204.7	1282.1	1481.1	904.0	716.4	140.2	178.1
85°	15.2	12.3	20.8	78.7	136.5	393.3	1373.1	760.0	597.0	68.2	135.5
87.5°	2.8	2.8	8.5	32.2	55.0	120.3	812.1	451.1	302.3	40.7	92.9
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°	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8	3582.8
2.5°	3571.5	3530.7	3475.8	3408.5	3328.9	3258.8	3206.6	3152.6	3141.3	3122.3	3119.5
5°	3547.8	3477.7	3341.2	3184.9	3018.1	2867.4	2745.2	2636.2	2587.9	2546.2	2541.4
7.5°	3512.7	3407.5	3175.4	2923.3	2662.7	2425.8	2224.9	2082.8	1952.0	1889.5	1880.0
10°	3472.0	3321.3	2988.7	2639.0	2279.0	1944.5	1646.0	1395.8	1244.2	1154.2	1142.8
12.5°	3434.1	3237.0	2798.2	2344.3	1865.8	1418.5	1034.8	796.0	636.8	572.3	564.8
15°	3416.1	3168.7	2620.1	2043.0	1433.7	903.1	565.7	437.8	385.7	370.5	369.6
17.5°	3414.2	3110.9	2445.7	1731.2	1004.4	525.0	368.6	336.4	326.0	322.2	322.2
20°	3413.2	3056.0	2271.4	1408.1	637.7	349.7	307.0	299.4	291.9	287.1	287.1
22.5°	3423.6	3006.7	2089.4	1078.4	401.8	283.3	270.1	262.5	253.0	246.4	245.4
25°	3434.1	2968.8	1903.7	767.5	290.9	246.4	233.1	222.7	209.4	200.9	199.9
27.5°	3436.0	2921.4	1704.7	513.6	243.5	215.1	198.0	181.9	166.8	158.2	157.3
30°	3407.5	2841.8	1483.9	346.8	215.1	186.7	163.9	146.9	132.7	126.0	126.0
32.5°	3351.6	2743.3	1241.3	261.5	191.4	160.1	135.5	119.4	109.9	107.1	106.1
35°	3301.4	2637.1	992.1	221.7	171.5	135.5	110.9	100.4	94.8	93.8	92.9
37.5°	3272.0	2551.9	758.1	200.9	152.6	113.7	93.8	86.2	83.4	81.5	82.4
40°	3294.8	2480.8	560.0	183.8	133.6	94.8	79.6	75.8	73.0	72.0	72.0
42.5°	3394.3	2468.5	416.0	168.7	115.6	78.7	69.2	66.3	64.4	63.5	64.4
45°	3655.8	2544.3	323.1	154.5	97.6	66.3	58.8	57.8	56.9	56.9	56.9
47.5°	4049.1	2700.6	269.1	138.3	81.5	56.9	51.2	50.2	49.3	50.2	50.2
50°	4715.2	2986.8	240.7	122.2	67.3	48.3	43.6	43.6	43.6	43.6	44.5
52.5°	5728.2	3549.7	221.7	106.1	55.0	40.7	37.0	37.0	37.9	37.9	38.9
55°	6856.8	4296.4	204.7	90.0	46.4	34.1	30.3	31.3	32.2	33.2	33.2
57.5°	8081.1	5123.6	190.5	73.9	39.8	27.5	25.6	26.5	27.5	29.4	29.4
60°	9558.4	6019.1	169.6	57.8	33.2	21.8	19.9	21.8	24.6	26.5	27.5
62.5°	11180.6	6885.2	143.1	45.5	27.5	17.1	16.1	19.9	23.7	25.6	26.5
65°	12289.3	7157.2	109.9	37.0	20.8	12.3	13.3	18.0	22.7	25.6	25.6
67°	11840.2	6489.1	90.0	31.3	17.1	9.5	12.3	18.0	22.7	24.6	25.6
67.5°	11528.4	6227.6	86.2	30.3	16.1	9.5	12.3	18.0	22.7	25.6	25.6
70°	9380.2	4678.3	72.0	22.7	13.3	8.5	10.4	17.1	21.8	24.6	24.6
72.5°	6517.5	2884.5	64.4	16.1	11.4	7.6	9.5	16.1	20.8	23.7	24.6
75°	3098.6	1044.2	55.0	12.3	10.4	6.6	8.5	16.1	20.8	23.7	23.7
77.5°	632.0	242.6	44.5	10.4	8.5	6.6	7.6	15.2	19.9	22.7	22.7
80°	207.5	93.8	33.2	9.5	8.5	6.6	7.6	14.2	19.9	21.8	22.7
82.5°	149.7	47.4	21.8	9.5	8.5	6.6	6.6	14.2	19.0	21.8	21.8
85°	114.7	33.2	14.2	9.5	8.5	6.6	6.6	13.3	18.0	20.8	20.8
87.5°	75.8	13.3	11.4	9.5	8.5	6.6	6.6	13.3	17.1	19.9	20.8
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)