

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: P191161

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191161
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-03-LED-E1-SL3-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 15020 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

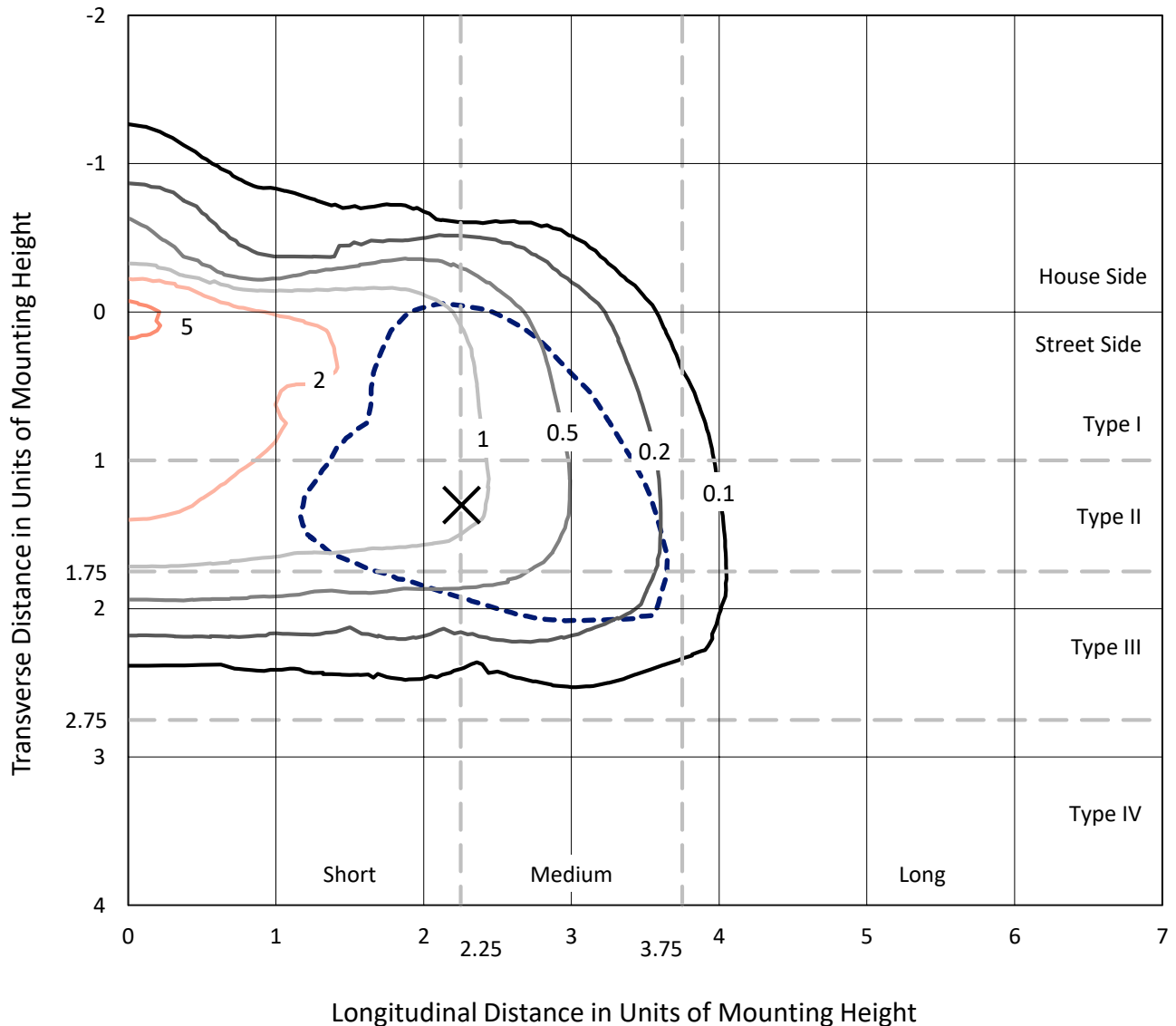
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

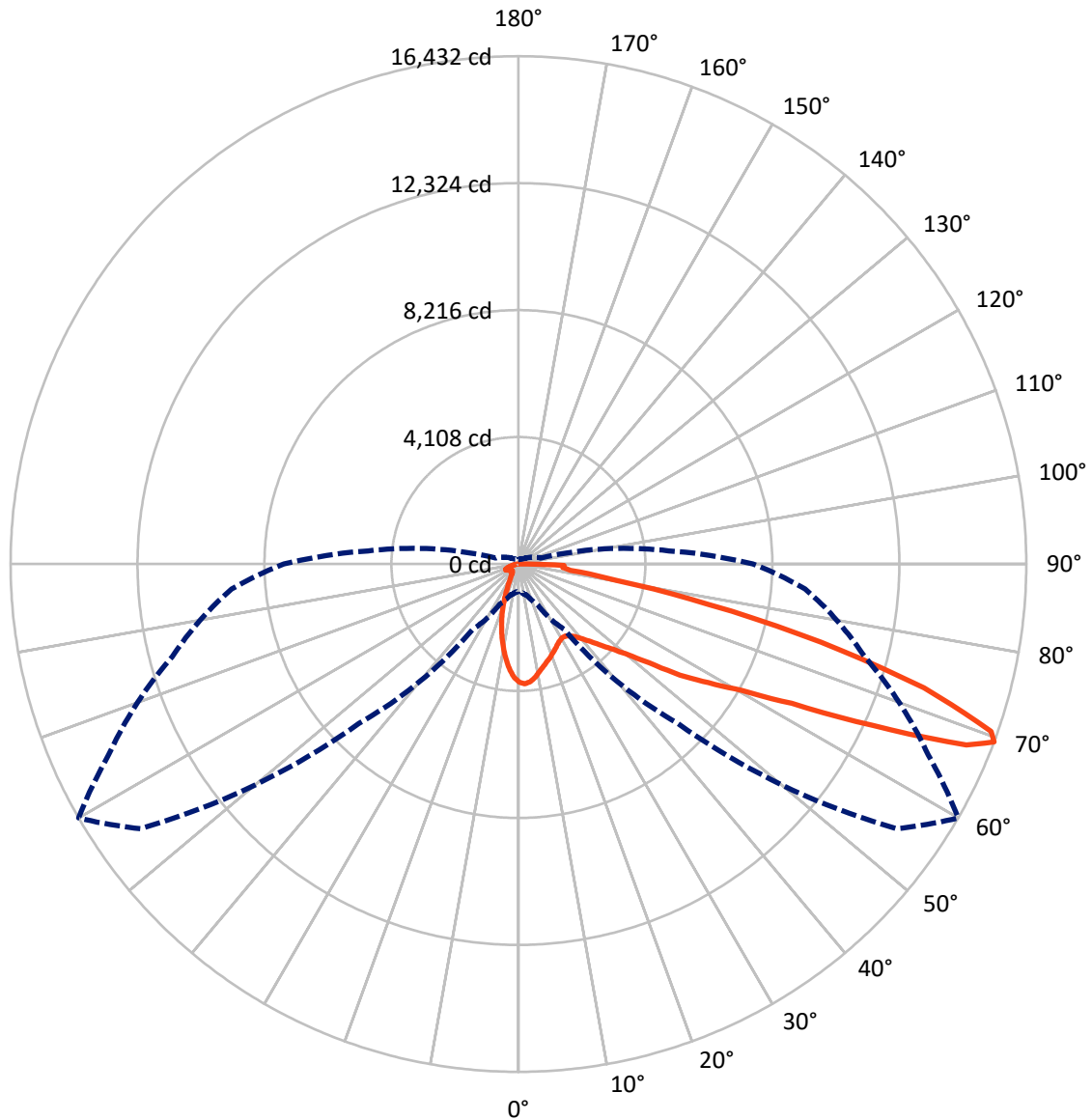
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2136.9	0.0	2136.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	12883.1	0.0	12883.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	15020.0	0.0	15020.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.6	2.2
10°-20°	689.5	4.6
20°-30°	878.5	5.8
30°-40°	1207.7	8.0
40°-50°	1959.7	13.0
50°-60°	3142.8	20.9
60°-70°	4182.9	27.8
70°-80°	2258.4	15.0
80°-90°	376.8	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°	15020.0	100.0
0°-180°	15020.0	100.0



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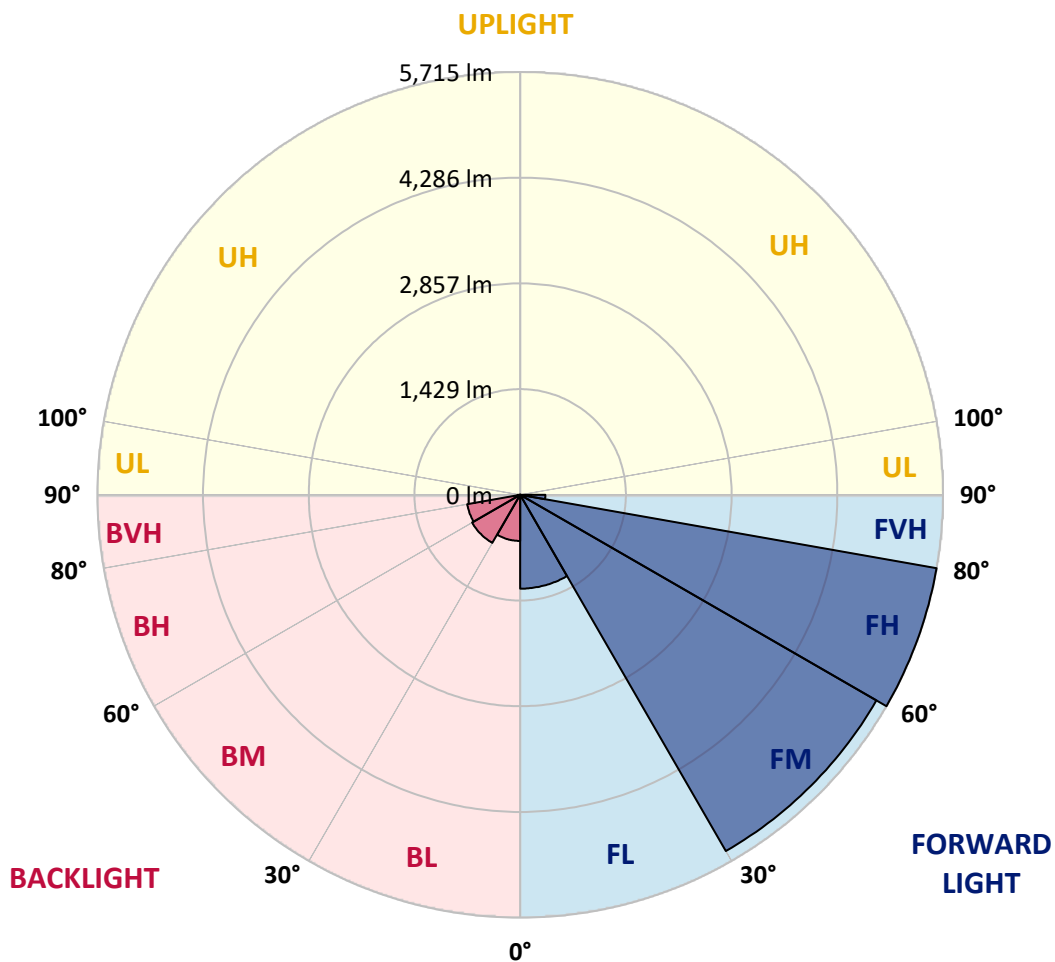
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1268.2	8.4			
FM	(30°-60°)	5559.5	37.0			
FH	(60°-80°)	5714.8	38.0			G3/7500
FVH	(80°-90°)	340.5	2.3			G3/500
BL	(0°-30°)	623.4	4.2	B2/1000		
BM	(30°-60°)	750.7	5.0	B1/1000		
BH	(60°-80°)	726.5	4.8	B2/1000		G2/1000
BVH	(80°-90°)	36.3	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4
2.5°	3905.7	3914.4	3910.7	3908.6	3915.1	3904.9	3883.9	3877.4	3867.3	3843.3	3802.6
5°	3759.1	3785.2	3783.8	3803.3	3836.1	3844.8	3835.3	3836.8	3817.9	3788.2	3720.7
7.5°	3505.9	3516.8	3522.6	3565.4	3624.9	3672.8	3713.4	3726.5	3717.8	3692.3	3605.3
10°	3244.7	3253.4	3267.2	3317.2	3392.7	3458.7	3535.6	3579.9	3598.7	3594.4	3497.2
12.5°	3020.5	3029.2	3047.4	3103.9	3194.0	3275.2	3386.9	3442.0	3487.0	3513.8	3409.4
15°	2819.6	2838.4	2855.8	2921.1	3022.0	3128.6	3254.8	3324.5	3394.2	3454.4	3331.8
17.5°	2662.8	2681.7	2691.8	2751.3	2858.7	2989.3	3137.3	3219.3	3306.4	3405.1	3254.8
20°	2572.1	2580.8	2576.5	2609.9	2706.3	2844.9	3020.5	3115.5	3220.8	3358.7	3177.9
22.5°	2546.7	2547.5	2531.5	2527.8	2590.2	2707.0	2895.7	3011.1	3140.3	3328.2	3111.9
25°	2608.4	2606.2	2562.7	2527.1	2533.6	2601.9	2775.3	2909.5	3072.7	3321.6	3061.2
27.5°	2745.5	2752.0	2687.5	2620.7	2554.7	2552.5	2683.8	2825.3	3017.6	3351.4	3039.4
30°	2937.8	2948.7	2879.7	2794.8	2670.8	2568.5	2648.3	2775.3	2983.5	3413.1	3035.7
32.5°	3148.2	3159.8	3107.5	3018.3	2855.8	2667.1	2673.0	2779.7	2982.0	3499.4	3060.4
35°	3372.4	3385.5	3358.7	3283.2	3102.5	2849.2	2767.3	2850.0	3029.2	3631.4	3126.4
37.5°	3622.7	3643.0	3650.3	3578.5	3385.5	3089.4	2921.9	2983.5	3135.9	3815.0	3247.6
40°	3983.3	4011.6	4009.5	3906.4	3709.7	3413.8	3160.5	3176.5	3302.0	4060.2	3441.3
42.5°	4674.1	4679.9	4499.1	4275.0	4066.7	3754.7	3442.0	3429.0	3531.3	4370.8	3726.5
45°	5552.7	5528.7	5126.8	4693.6	4439.7	4146.5	3808.4	3744.6	3822.3	4749.5	4083.4
47.5°	6281.8	6226.7	5718.8	5121.0	4834.4	4572.5	4238.7	4127.0	4169.8	5179.0	4544.9
50°	6535.1	6493.8	6073.0	5476.5	5208.0	5091.9	4768.4	4610.2	4621.8	5691.3	5085.4
52.5°	6480.7	6474.9	6194.1	5710.8	5557.8	5637.6	5518.6	5304.5	5191.4	6260.2	5668.8
55°	6352.2	6364.6	6263.0	5983.6	5957.6	6164.3	6498.8	6340.7	5988.8	6834.0	6271.7
57.5°	5906.0	5937.9	6161.4	6326.8	6601.1	6908.8	7288.2	7243.2	6847.1	7454.3	6988.6
60°	4758.3	4832.2	5431.6	6260.2	7263.6	8225.6	8395.5	8290.9	7732.3	8224.2	7935.4
62.5°	3333.9	3410.8	4123.3	5419.9	7154.7	9713.0	10374.8	9924.2	9003.5	9358.3	9160.9
65°	1784.8	1821.9	2366.1	3760.6	6040.3	10020.0	13267.6	12581.9	11016.2	10756.4	10209.4
67.5°	984.6	1004.9	1213.1	1898.8	3868.7	8823.6	15110.5	15628.5	13531.7	11687.3	10018.5
69°	890.3	909.1	1045.6	1438.1	2588.8	7295.5	14930.6	16431.8	14634.5	11595.1	9313.3
70°	870.6	888.1	1010.7	1325.6	2095.4	6013.4	14327.6	16226.4	14897.1	11265.0	8697.9
72.5°	783.6	802.5	921.5	1190.6	1790.7	2998.0	11349.2	13719.6	13525.1	9767.4	6597.5
75°	730.6	748.1	949.7	1166.0	1714.5	1897.4	7482.0	10111.4	9942.4	6832.6	3557.4
77.5°	312.7	311.3	440.4	986.7	1739.9	1837.1	4020.3	6316.7	5763.1	2920.4	1021.6
80°	209.0	205.3	209.0	290.2	1595.5	1847.2	2106.3	3206.2	2421.9	744.4	503.5
82.5°	179.9	177.1	183.5	177.1	560.9	2108.5	1790.7	1705.1	1151.4	423.0	249.6
85°	121.1	116.1	158.1	158.9	264.8	1873.4	2017.1	1440.2	931.6	251.0	123.4
87.5°	58.0	56.6	92.2	112.4	155.3	761.1	2263.0	1475.8	939.6	128.4	58.8
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°	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4
2.5°	3790.3	3760.6	3731.5	3696.7	3660.4	3619.8	3599.5	3579.2	3574.1	3568.3	3548.0
5°	3685.8	3643.8	3571.2	3491.4	3407.2	3325.2	3262.8	3223.6	3194.0	3178.7	3151.8
7.5°	3550.9	3489.2	3362.2	3224.3	3082.9	2953.8	2842.0	2771.6	2704.9	2673.7	2638.1
10°	3422.5	3330.3	3133.0	2929.8	2726.7	2531.5	2347.9	2218.1	2102.7	2038.1	1992.4
12.5°	3312.2	3185.9	2912.3	2637.4	2358.8	2080.9	1805.9	1589.7	1409.0	1314.0	1265.4
15°	3204.8	3052.4	2702.7	2353.7	1996.0	1618.0	1256.7	1011.4	861.9	802.5	782.1
17.5°	3107.5	2912.3	2492.3	2067.8	1621.6	1164.5	844.5	709.6	652.2	632.7	626.1
20°	3002.4	2770.9	2273.9	1768.9	1231.2	814.1	659.5	600.1	576.8	571.0	568.1
22.5°	2900.8	2631.6	2064.9	1448.9	884.4	628.3	566.6	542.0	538.4	543.5	543.5
25°	2814.4	2506.8	1839.3	1114.5	649.4	529.0	507.2	501.3	515.2	534.0	537.7
27.5°	2749.9	2404.5	1599.2	822.8	517.3	460.0	459.3	468.7	502.8	539.1	546.4
30°	2705.6	2307.3	1342.3	593.5	433.8	404.9	416.4	436.8	486.8	538.4	552.2
32.5°	2683.1	2235.5	1074.5	459.3	371.5	355.5	375.1	399.8	449.1	497.1	515.2
35°	2700.5	2182.5	822.0	383.1	328.0	315.6	335.9	359.9	388.9	409.2	423.0
37.5°	2765.9	2161.4	620.3	343.2	298.2	286.6	302.6	316.3	328.0	333.8	340.3
40°	2906.6	2183.9	497.1	322.8	281.5	267.0	273.5	278.7	285.9	291.6	294.6
42.5°	3114.1	2251.4	445.5	314.9	272.8	251.7	250.3	252.5	262.0	272.8	275.0
45°	3404.3	2370.4	441.9	320.0	268.4	239.5	232.9	235.8	250.3	267.0	270.0
47.5°	3775.1	2551.8	470.9	335.2	272.1	232.9	222.0	225.7	243.8	266.3	270.0
50°	4224.2	2805.0	519.5	357.7	288.1	234.4	218.4	220.5	239.5	264.1	267.7
52.5°	4754.6	3164.2	572.4	379.5	304.7	243.8	221.3	216.3	233.6	255.4	259.7
55°	5344.5	3624.9	626.9	399.1	313.4	255.4	227.1	210.4	222.7	240.9	244.5
57.5°	6068.6	4269.2	721.2	417.9	319.3	263.4	232.9	204.6	209.0	222.0	224.9
60°	7048.8	5180.5	887.3	449.1	332.4	266.3	232.2	199.6	195.2	202.4	203.9
62.5°	8223.5	6170.1	1025.9	488.3	354.0	268.4	227.8	195.9	183.5	183.5	185.1
65°	8920.7	6435.0	949.0	521.0	372.3	266.3	222.7	192.3	174.8	166.8	167.6
67.5°	8329.4	5659.4	813.3	527.4	371.5	256.1	214.7	185.8	166.1	153.9	153.1
69°	7588.7	4883.1	752.4	510.0	354.0	243.1	204.6	178.5	159.6	146.6	145.9
70°	6991.5	4409.2	712.5	491.2	335.2	233.6	196.6	172.0	154.6	142.2	140.8
72.5°	5083.2	2889.2	608.8	422.3	276.4	195.9	169.8	150.9	137.9	130.6	129.2
75°	2540.2	1377.8	494.1	342.5	211.9	156.7	139.3	126.2	119.7	118.3	117.5
77.5°	834.4	631.3	353.3	255.4	157.4	122.7	112.4	103.0	101.6	106.0	104.4
80°	458.6	367.1	224.2	169.1	107.4	90.0	88.5	83.5	85.6	92.9	91.5
82.5°	233.6	190.8	138.6	101.6	72.5	64.5	70.4	67.5	70.4	76.9	76.2
85°	115.4	104.4	87.8	61.7	47.9	41.3	50.0	52.3	53.7	58.8	58.8
87.5°	66.8	61.7	46.4	29.1	23.9	21.8	29.1	28.3	33.3	36.3	35.6
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)