

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: P191961

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191961
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-SL3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 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: 14683 lumens
Efficiency: N/A
Efficacy: 118.4 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

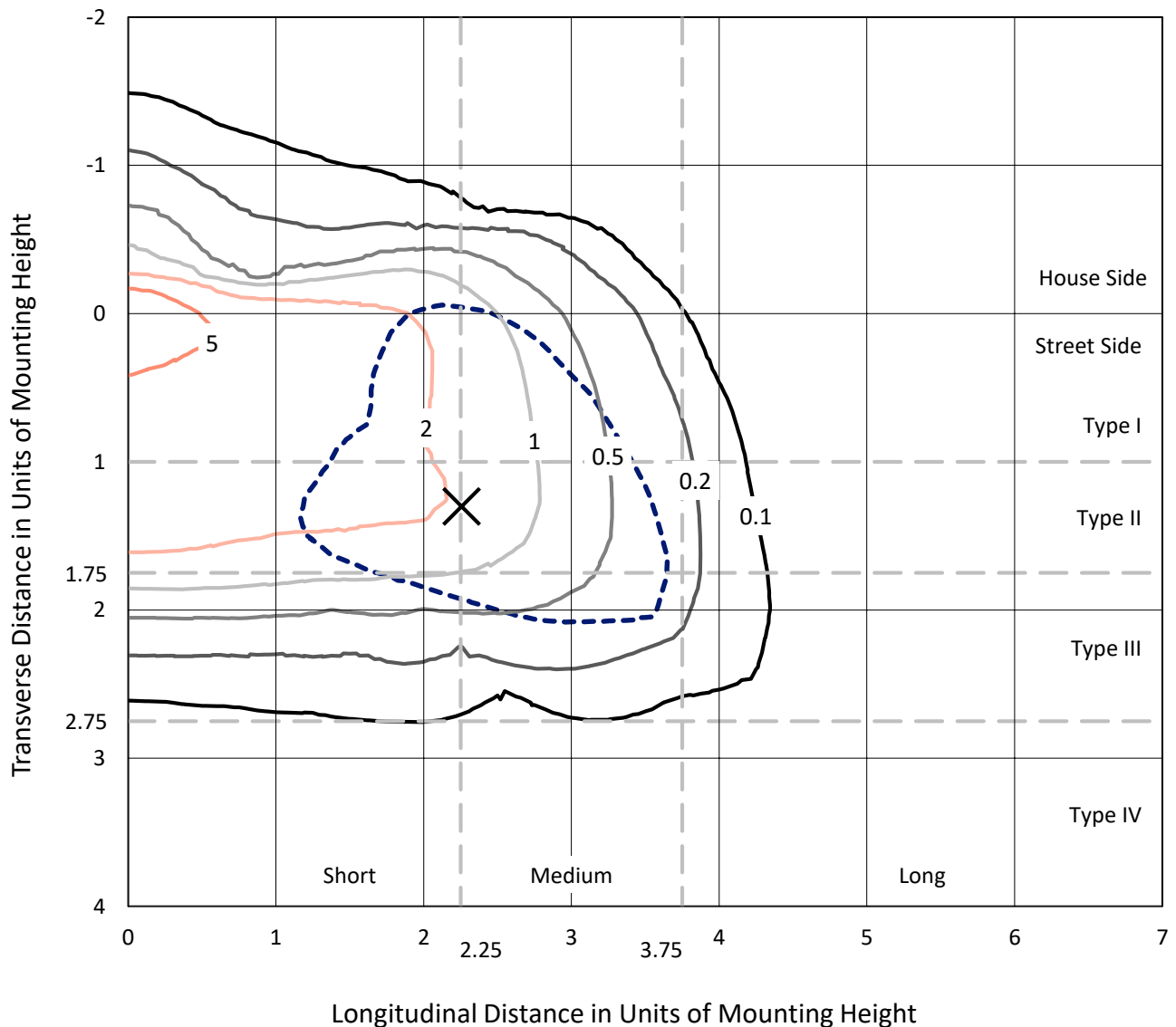
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

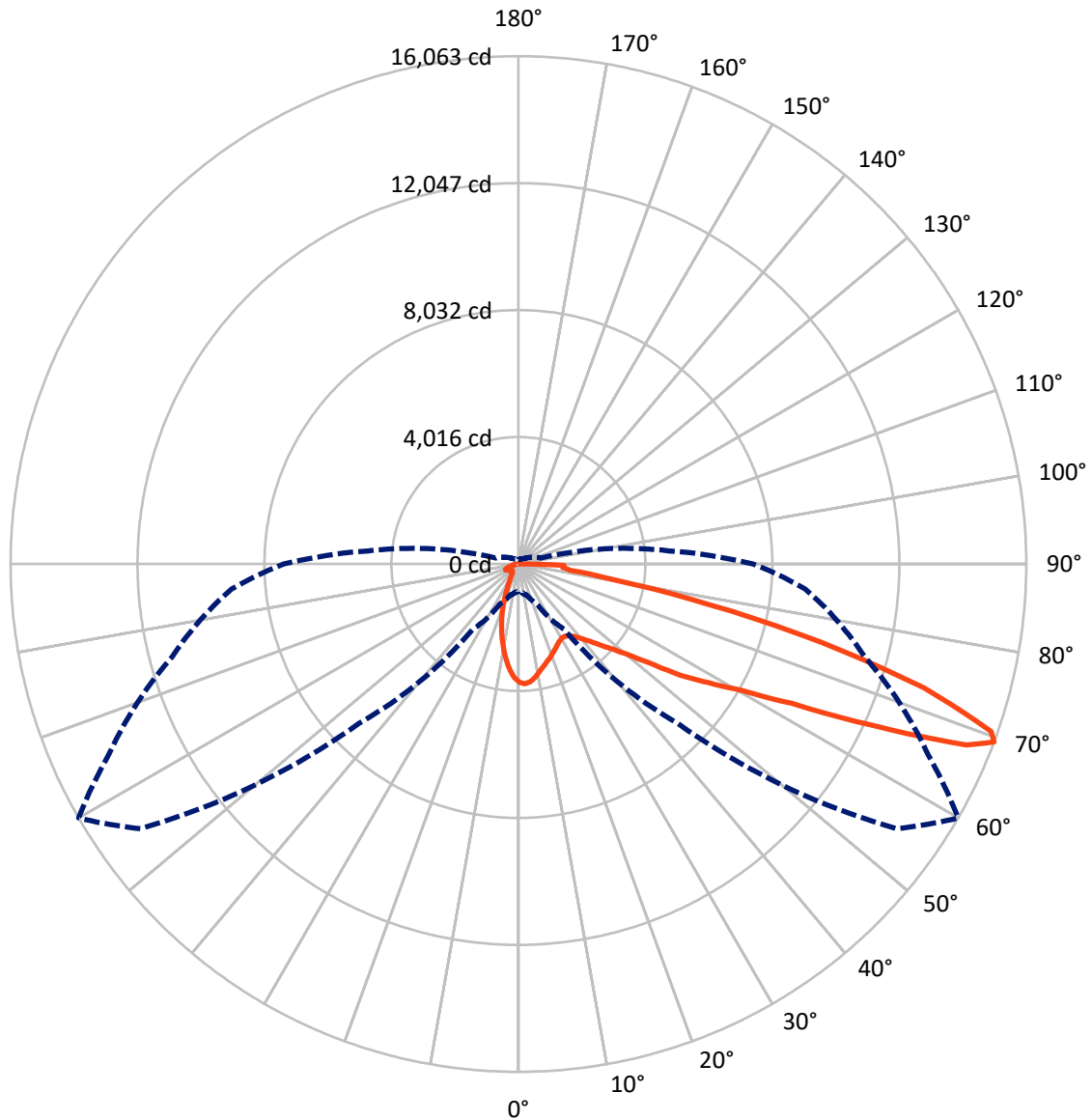
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 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	2088.9	0.0	2088.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	12594.1	0.0	12594.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	14683.0	0.0	14683.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	2.2
10°-20°	674.0	4.6
20°-30°	858.8	5.8
30°-40°	1180.6	8.0
40°-50°	1915.7	13.0
50°-60°	3072.3	20.9
60°-70°	4089.0	27.8
70°-80°	2207.8	15.0
80°-90°	368.4	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°	14683.0	100.0
0°-180°	14683.0	100.0



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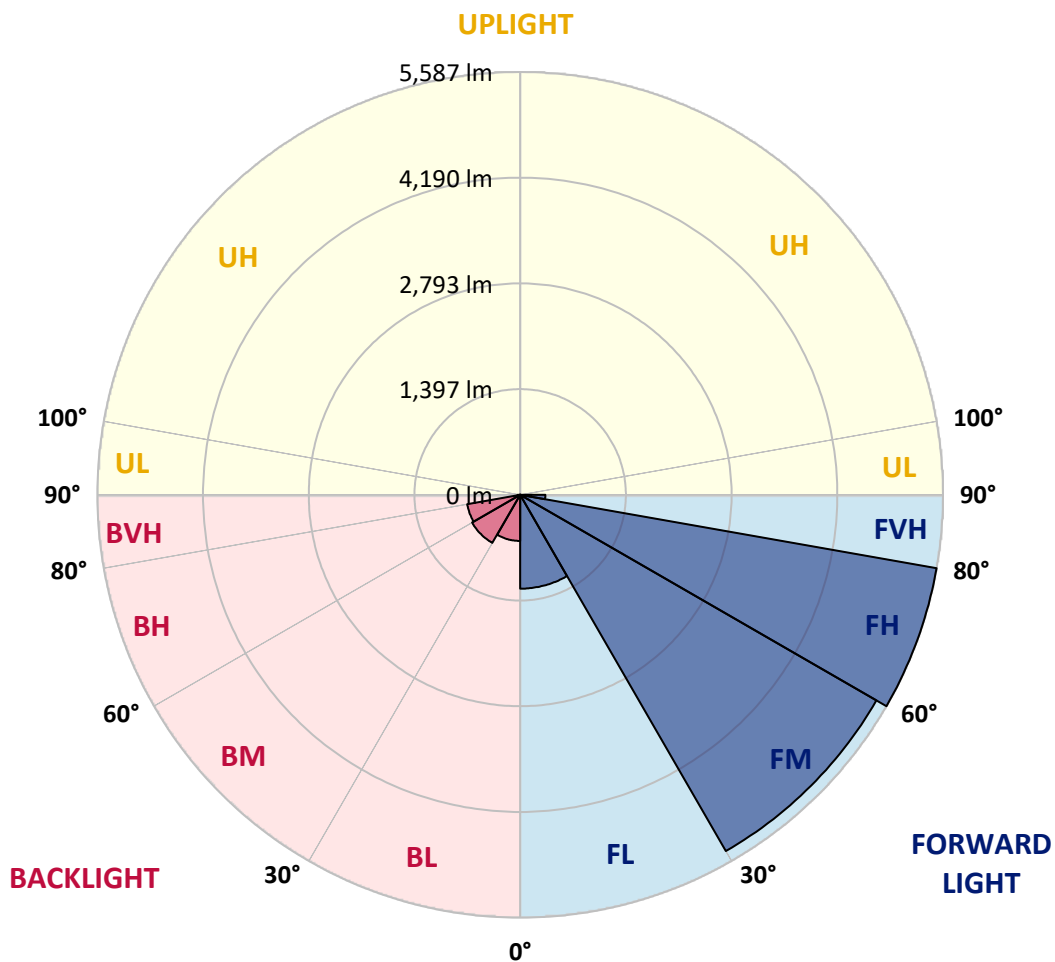
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.8	8.4			
FM (30°-60°)	5434.8	37.0			
FH (60°-80°)	5586.6	38.0			G3/7500
FVH (80°-90°)	332.9	2.3			G3/500
BL (0°-30°)	609.4	4.2	B2/1000		
BM (30°-60°)	733.9	5.0	B1/1000		
BH (60°-80°)	710.2	4.8	B2/1000		G2/1000
BVH (80°-90°)	35.5	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°	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5
2.5°	3818.1	3826.6	3823.0	3820.9	3827.3	3817.3	3796.8	3790.4	3780.5	3757.1	3717.3
5°	3674.8	3700.3	3698.9	3718.0	3750.0	3758.5	3749.3	3750.7	3732.2	3703.2	3637.2
7.5°	3427.2	3437.9	3443.6	3485.4	3543.6	3590.4	3630.1	3642.9	3634.4	3609.5	3524.4
10°	3171.9	3180.4	3193.9	3242.8	3316.6	3381.1	3456.3	3499.6	3518.0	3513.8	3418.7
12.5°	2952.7	2961.2	2979.0	3034.3	3122.3	3201.7	3310.9	3364.8	3408.8	3435.0	3332.9
15°	2756.3	2774.7	2791.7	2855.6	2954.2	3058.4	3181.8	3249.9	3318.0	3376.9	3257.0
17.5°	2603.1	2621.5	2631.4	2689.6	2794.6	2922.2	3066.9	3147.1	3232.2	3328.7	3181.8
20°	2514.4	2522.9	2518.7	2551.3	2645.6	2781.1	2952.7	3045.6	3148.5	3283.3	3106.6
22.5°	2489.6	2490.3	2474.7	2471.1	2532.1	2646.3	2830.7	2943.5	3069.8	3253.5	3042.1
25°	2549.9	2547.7	2505.2	2470.4	2476.8	2543.5	2713.0	2844.2	3003.8	3247.1	2992.5
27.5°	2683.9	2690.3	2627.2	2561.9	2497.4	2495.2	2623.6	2761.9	2949.9	3276.2	2971.2
30°	2871.9	2882.5	2815.1	2732.1	2610.9	2510.9	2588.9	2713.0	2916.6	3336.5	2967.6
32.5°	3077.6	3088.9	3037.8	2950.6	2791.7	2607.3	2613.0	2717.3	2915.1	3420.9	2991.7
35°	3296.7	3309.5	3283.3	3209.5	3032.9	2785.3	2705.2	2786.1	2961.2	3549.9	3056.3
37.5°	3541.4	3561.3	3568.4	3498.2	3309.5	3020.1	2856.3	2916.6	3065.5	3729.4	3174.7
40°	3893.9	3921.6	3919.5	3818.8	3626.5	3337.2	3089.6	3105.2	3227.9	3969.1	3364.1
42.5°	4569.2	4574.9	4398.2	4179.1	3975.5	3670.5	3364.8	3352.1	3452.1	4272.7	3642.9
45°	5428.1	5404.7	5011.8	4588.3	4340.1	4053.5	3723.0	3660.6	3736.5	4642.9	3991.8
47.5°	6140.9	6087.0	5590.5	5006.1	4725.9	4469.9	4143.6	4034.4	4076.2	5062.8	4442.9
50°	6388.5	6348.1	5936.7	5353.6	5091.2	4977.7	4661.4	4506.8	4518.1	5563.6	4971.3
52.5°	6335.3	6329.6	6055.1	5582.7	5433.1	5511.1	5394.8	5185.5	5074.9	6119.7	5541.6
55°	6209.7	6221.8	6122.5	5849.4	5823.9	6026.0	6353.0	6198.4	5854.4	6680.7	6131.0
57.5°	5773.5	5804.7	6023.2	6184.9	6453.0	6753.8	7124.7	7080.7	6693.5	7287.1	6831.8
60°	4651.5	4723.8	5309.7	6119.7	7100.6	8041.1	8207.1	8104.9	7558.8	8039.7	7757.4
62.5°	3259.1	3334.3	4030.8	5298.3	6994.2	9495.1	10142.0	9701.5	8801.5	9148.3	8955.4
65°	1744.8	1781.0	2313.0	3676.2	5904.8	9795.2	12969.9	12299.6	10769.0	10515.1	9980.3
67.5°	962.5	982.4	1185.9	1856.2	3781.9	8625.6	14771.5	15277.9	13228.1	11425.1	9793.7
69°	870.3	888.7	1022.1	1405.8	2530.7	7131.8	14595.6	16063.1	14306.2	11335.0	9104.3
70°	851.1	868.2	988.0	1295.9	2048.4	5878.5	14006.1	15862.3	14562.9	11012.3	8502.8
72.5°	766.0	784.5	900.8	1163.9	1750.5	2930.7	11094.6	13411.8	13221.7	9548.3	6449.5
75°	714.2	731.3	928.4	1139.8	1676.0	1854.8	7314.1	9884.5	9719.3	6679.3	3477.6
77.5°	305.7	304.3	430.5	964.6	1700.9	1795.9	3930.1	6175.0	5633.8	2854.9	998.7
80°	204.3	200.7	204.3	283.7	1559.7	1805.8	2059.0	3134.3	2367.6	727.7	492.2
82.5°	175.9	173.1	179.4	173.1	548.3	2061.2	1750.5	1666.8	1125.6	413.5	244.0
85°	118.4	113.5	154.6	155.3	258.9	1831.4	1971.8	1407.9	910.7	245.4	120.6
87.5°	56.7	55.3	90.1	109.9	151.8	744.0	2212.2	1442.7	918.5	125.5	57.5
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°	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5	3741.5
2.5°	3705.3	3676.2	3647.8	3613.8	3578.3	3538.6	3518.7	3498.9	3493.9	3488.2	3468.4
5°	3603.1	3562.0	3491.1	3413.1	3330.8	3250.6	3189.6	3151.3	3122.3	3107.4	3081.1
7.5°	3471.2	3410.9	3286.8	3152.0	3013.7	2887.5	2778.2	2709.4	2644.2	2613.7	2578.9
10°	3345.7	3255.6	3062.7	2864.1	2665.5	2474.7	2295.2	2168.3	2055.5	1992.4	1947.7
12.5°	3237.9	3114.4	2847.0	2578.2	2305.9	2034.2	1765.4	1554.0	1377.4	1284.5	1237.0
15°	3132.9	2983.9	2642.1	2300.9	1951.2	1581.7	1228.5	988.7	842.6	784.5	764.6
17.5°	3037.8	2847.0	2436.4	2021.4	1585.2	1138.4	825.6	693.7	637.6	618.5	612.1
20°	2935.0	2708.7	2222.9	1729.2	1203.6	795.8	644.7	586.6	563.9	558.2	555.4
22.5°	2835.7	2572.6	2018.6	1416.4	864.6	614.2	553.9	529.8	526.3	531.3	531.3
25°	2751.3	2450.6	1798.0	1089.5	634.8	517.1	495.8	490.1	503.6	522.0	525.6
27.5°	2688.2	2350.6	1563.3	804.3	505.7	449.7	449.0	458.2	491.5	527.0	534.1
30°	2644.9	2255.5	1312.2	580.2	424.1	395.8	407.1	427.0	475.9	526.3	539.8
32.5°	2622.9	2185.3	1050.4	449.0	363.2	347.5	366.7	390.8	439.0	485.9	503.6
35°	2639.9	2133.5	803.6	374.5	320.6	308.5	328.4	351.8	380.2	400.0	413.5
37.5°	2703.8	2112.9	606.4	335.5	291.5	280.2	295.8	309.2	320.6	326.3	332.7
40°	2841.4	2134.9	485.9	315.6	275.2	261.0	267.4	272.4	279.5	285.1	288.0
42.5°	3044.2	2200.9	435.5	307.8	266.7	246.1	244.7	246.8	256.1	266.7	268.8
45°	3327.9	2317.2	432.0	312.8	262.4	234.1	227.7	230.5	244.7	261.0	263.9
47.5°	3690.4	2494.5	460.3	327.7	266.0	227.7	217.0	220.6	238.3	260.3	263.9
50°	4129.4	2742.1	507.8	349.7	281.6	229.1	213.5	215.6	234.1	258.2	261.7
52.5°	4647.9	3093.2	559.6	371.0	297.9	238.3	216.3	211.4	228.4	249.7	253.9
55°	5224.6	3543.6	612.8	390.1	306.4	249.7	222.0	205.7	217.7	235.5	239.0
57.5°	5932.4	4173.4	705.0	408.5	312.1	257.5	227.7	200.0	204.3	217.0	219.9
60°	6890.7	5064.3	867.4	439.0	324.9	260.3	227.0	195.1	190.8	197.9	199.3
62.5°	8039.0	6031.7	1002.9	477.3	346.1	262.4	222.7	191.5	179.4	179.4	180.9
65°	8720.6	6290.6	927.7	509.3	363.9	260.3	217.7	188.0	170.9	163.1	163.8
67.5°	8142.5	5532.4	795.1	515.6	363.2	250.4	209.9	181.6	162.4	150.4	149.7
69°	7418.4	4773.5	735.5	498.6	346.1	237.6	200.0	174.5	156.0	143.3	142.6
70°	6834.6	4310.3	696.5	480.2	327.7	228.4	192.2	168.1	151.1	139.0	137.6
72.5°	4969.2	2824.4	595.1	412.8	270.2	191.5	166.0	147.5	134.8	127.7	126.3
75°	2483.2	1346.9	483.0	334.8	207.1	153.2	136.2	123.4	117.0	115.6	114.9
77.5°	815.7	617.1	345.4	249.7	153.9	119.9	109.9	100.7	99.3	103.6	102.1
80°	448.3	358.9	219.2	165.3	105.0	88.0	86.5	81.6	83.7	90.8	89.4
82.5°	228.4	186.5	135.5	99.3	70.9	63.1	68.8	66.0	68.8	75.2	74.5
85°	112.8	102.1	85.8	60.3	46.8	40.4	48.9	51.1	52.5	57.5	57.5
87.5°	65.3	60.3	45.4	28.4	23.4	21.3	28.4	27.7	32.6	35.5	34.8
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)