

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: P269234

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269234
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-04-LED-E1-SL3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 13745.6 lumens
Efficiency: N/A
Efficacy: 106.6 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): 129
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

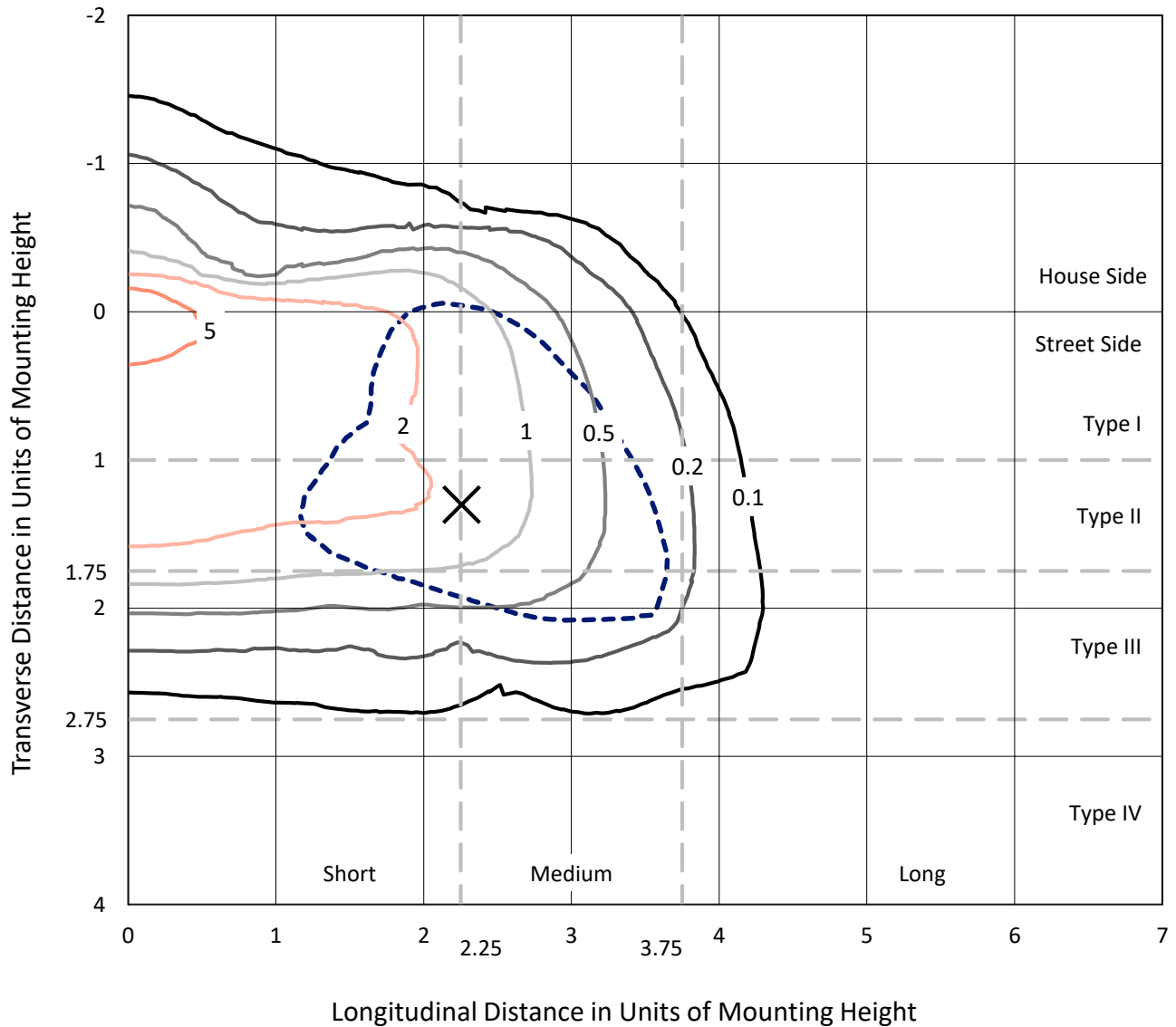


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Iso-Footcandle Lines of Horizontal Illumination

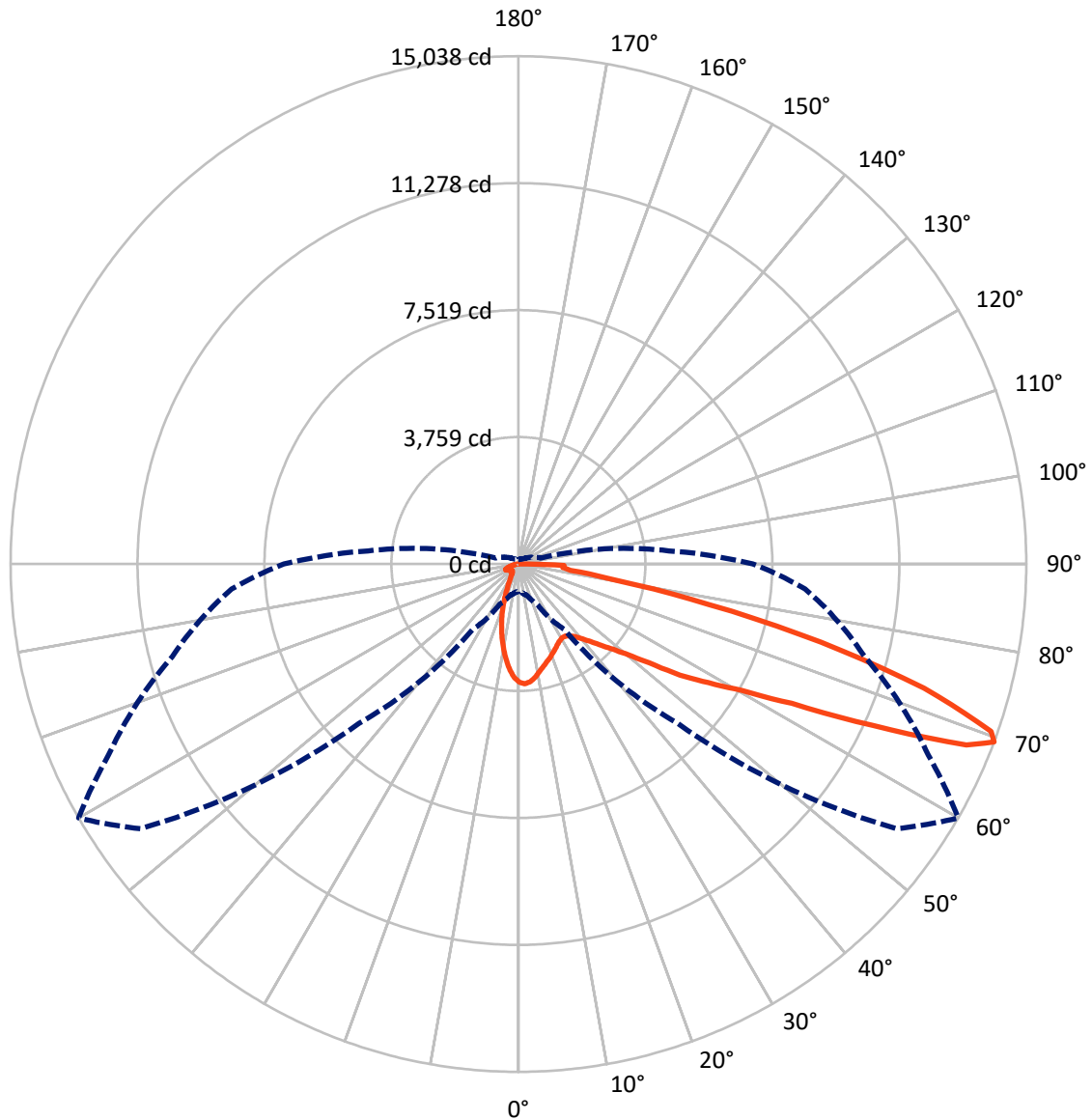
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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	1955.6	0.0	1955.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11790.1	0.0	11790.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	13745.6	0.0	13745.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.2	2.2
10°-20°	631.0	4.6
20°-30°	804.0	5.8
30°-40°	1105.3	8.0
40°-50°	1793.4	13.0
50°-60°	2876.2	20.9
60°-70°	3828.0	27.8
70°-80°	2066.8	15.0
80°-90°	344.9	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°	13745.6	100.0
0°-180°	13745.6	100.0

Coefficient of Utilization



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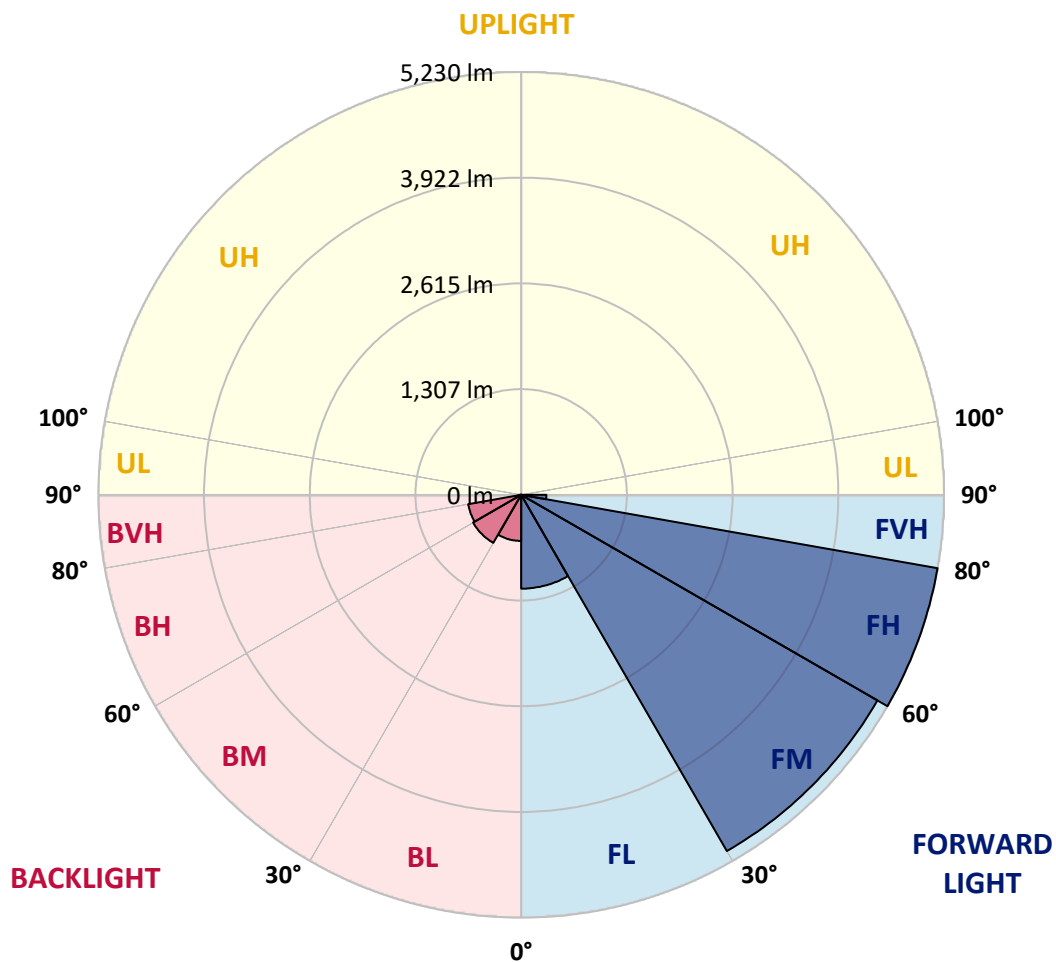
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1160.6	8.4			
FM	(30°-60°)	5087.8	37.0			
FH	(60°-80°)	5230.0	38.0			G3/7500
FVH	(80°-90°)	311.7	2.3			G3/500
BL	(0°-30°)	570.5	4.2	B2/1000		
BM	(30°-60°)	687.0	5.0	B1/1000		
BH	(60°-80°)	664.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	33.2	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°	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6
2.5°	3574.4	3582.4	3578.9	3577.1	3582.9	3573.6	3554.5	3548.5	3539.1	3517.3	3480.0
5°	3440.1	3464.0	3462.7	3480.8	3510.5	3518.5	3509.9	3511.2	3494.0	3466.7	3404.9
7.5°	3208.4	3218.4	3223.7	3263.0	3317.4	3361.2	3398.4	3410.2	3402.3	3379.2	3299.5
10°	2969.3	2977.4	2990.0	3035.8	3104.8	3165.3	3235.7	3276.2	3293.5	3289.5	3200.5
12.5°	2764.3	2772.2	2788.8	2840.6	2922.9	2997.3	3099.5	3150.0	3191.1	3215.8	3120.2
15°	2580.3	2597.5	2613.4	2673.3	2765.5	2863.2	2978.7	3042.5	3106.2	3161.3	3049.0
17.5°	2436.9	2454.1	2463.4	2517.9	2616.1	2735.7	2871.2	2946.3	3025.9	3116.1	2978.7
20°	2353.9	2361.9	2358.0	2388.5	2476.7	2603.6	2764.3	2851.2	2947.5	3073.6	2908.4
22.5°	2330.7	2331.3	2316.6	2313.3	2370.4	2477.3	2650.0	2755.6	2873.8	3045.8	2847.8
25°	2387.1	2385.1	2345.3	2312.6	2318.6	2381.0	2539.8	2662.7	2812.1	3039.8	2801.5
27.5°	2512.6	2518.6	2459.5	2398.4	2338.0	2336.0	2456.1	2585.6	2761.6	3067.1	2781.5
30°	2688.5	2698.5	2635.4	2557.7	2444.2	2350.5	2423.5	2539.8	2730.4	3123.4	2778.2
32.5°	2881.1	2891.7	2843.9	2762.3	2613.4	2440.9	2446.2	2543.8	2729.1	3202.5	2800.7
35°	3086.2	3098.3	3073.6	3004.7	2839.3	2607.5	2532.5	2608.1	2772.2	3323.3	2861.2
37.5°	3315.4	3333.9	3340.5	3274.9	3098.3	2827.3	2674.0	2730.4	2869.8	3491.4	2972.0
40°	3645.3	3671.3	3669.2	3575.0	3395.1	3124.1	2892.5	2906.9	3021.9	3715.7	3149.4
42.5°	4277.5	4282.8	4117.6	3912.3	3721.7	3436.1	3150.0	3138.0	3231.7	4000.0	3410.2
45°	5081.6	5059.7	4691.8	4295.4	4063.0	3794.8	3485.3	3426.9	3498.0	4346.5	3736.9
47.5°	5749.0	5698.5	5233.6	4686.5	4424.2	4184.6	3879.2	3776.8	3816.0	4739.6	4159.3
50°	5980.6	5942.7	5557.6	5011.9	4766.1	4660.0	4363.7	4219.1	4229.7	5208.5	4653.9
52.5°	5930.9	5925.5	5668.6	5226.3	5086.3	5159.2	5050.5	4854.5	4751.0	5729.0	5187.8
55°	5813.3	5824.6	5731.6	5476.0	5452.2	5641.4	5947.5	5802.7	5480.6	6254.2	5739.6
57.5°	5404.9	5434.1	5638.8	5790.0	6041.1	6322.6	6669.8	6628.8	6266.1	6822.0	6395.7
60°	4354.5	4422.3	4970.7	5729.0	6647.3	7527.7	7683.2	7587.5	7076.3	7526.4	7262.2
62.5°	3051.1	3121.5	3773.5	4960.1	6547.7	8889.0	9494.5	9082.3	8239.6	8564.4	8383.6
65°	1633.5	1667.3	2165.4	3441.4	5527.8	9169.9	12141.9	11514.5	10081.5	9843.7	9343.1
67.5°	901.0	919.7	1110.2	1737.7	3540.4	8075.0	13828.5	14302.5	12383.7	10695.7	9168.6
69°	814.8	832.0	956.9	1316.0	2369.2	6676.6	13663.8	15037.5	13392.9	10611.4	8523.1
70°	796.7	812.7	925.0	1213.2	1917.6	5503.2	13112.0	14849.7	13633.2	10309.3	7960.1
72.5°	717.1	734.4	843.2	1089.6	1638.8	2743.7	10386.4	12555.6	12377.7	8938.8	6037.8
75°	668.7	684.6	869.2	1067.0	1569.0	1736.3	6847.2	9253.5	9098.8	6252.9	3255.5
77.5°	286.2	284.9	403.1	903.1	1592.2	1681.3	3679.2	5780.9	5274.2	2672.5	935.0
80°	191.2	187.9	191.2	265.5	1460.1	1690.5	1927.7	2934.3	2216.5	681.3	460.8
82.5°	164.7	162.1	168.1	162.1	513.3	1929.6	1638.8	1560.4	1053.8	387.1	228.3
85°	110.9	106.2	144.7	145.4	242.4	1714.4	1845.8	1318.1	852.6	229.7	112.8
87.5°	53.1	51.8	84.4	102.9	142.1	696.5	2071.0	1350.6	859.9	117.5	53.8
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°	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6	3502.6
2.5°	3468.7	3441.4	3414.9	3383.0	3349.9	3312.7	3294.2	3275.5	3270.9	3265.6	3247.0
5°	3373.1	3334.6	3268.3	3195.2	3118.1	3043.1	2986.0	2950.2	2922.9	2909.0	2884.4
7.5°	3249.6	3193.1	3077.0	2950.8	2821.3	2703.1	2601.0	2536.5	2475.4	2446.9	2414.4
10°	3132.1	3047.8	2867.1	2681.3	2495.3	2316.6	2148.7	2029.8	1924.3	1865.2	1823.3
12.5°	3031.2	2915.5	2665.4	2413.7	2158.6	1904.3	1652.7	1454.8	1289.4	1202.6	1158.0
15°	2932.8	2793.5	2473.5	2154.0	1826.7	1480.8	1150.0	925.7	788.8	734.4	715.8
17.5°	2843.9	2665.4	2280.8	1892.4	1484.0	1065.7	772.9	649.4	597.0	579.0	572.9
20°	2747.6	2535.8	2081.0	1618.8	1126.8	745.1	603.7	549.1	527.8	522.5	519.8
22.5°	2654.8	2408.4	1889.8	1326.0	809.5	575.0	518.6	496.0	492.7	497.3	497.3
25°	2575.7	2294.1	1683.2	1019.8	594.3	484.0	464.2	458.9	471.4	488.7	492.0
27.5°	2516.5	2200.5	1463.5	753.0	473.4	420.9	420.2	428.9	460.1	493.3	499.9
30°	2476.1	2111.6	1228.4	543.1	397.1	370.6	381.2	399.7	445.6	492.7	505.2
32.5°	2455.4	2045.8	983.4	420.2	340.0	325.4	343.3	365.9	411.1	454.8	471.4
35°	2471.3	1997.3	752.3	350.6	300.2	288.9	307.4	329.4	355.9	374.6	387.1
37.5°	2531.2	1978.1	567.6	314.0	272.9	262.2	276.9	289.6	300.2	305.5	311.4
40°	2660.1	1998.6	454.8	295.5	257.6	244.3	250.4	254.9	261.6	266.9	269.6
42.5°	2850.0	2060.4	407.7	288.1	249.6	230.4	229.1	231.0	239.7	249.6	251.6
45°	3115.5	2169.2	404.3	292.8	245.6	219.1	213.2	215.9	229.1	244.3	247.0
47.5°	3454.8	2335.2	430.9	306.9	249.0	213.2	203.1	206.5	223.0	243.7	247.0
50°	3865.8	2567.0	475.5	327.3	263.7	214.4	199.9	201.8	219.1	241.7	245.0
52.5°	4351.2	2895.6	523.9	347.3	278.8	223.0	202.5	197.8	213.7	233.6	237.7
55°	4891.0	3317.4	573.7	365.3	286.9	233.6	207.9	192.5	203.8	220.4	223.8
57.5°	5553.7	3907.0	660.1	382.5	292.2	241.0	213.2	187.2	191.2	203.1	205.8
60°	6450.8	4741.0	812.1	411.1	304.0	243.7	212.4	182.5	178.7	185.3	186.6
62.5°	7525.8	5646.7	938.9	446.8	324.0	245.6	208.4	179.3	168.1	168.1	169.3
65°	8163.8	5889.0	868.5	476.7	340.6	243.7	203.8	176.0	160.0	152.7	153.4
67.5°	7622.7	5179.2	744.3	482.7	340.0	234.4	196.5	170.0	152.1	140.8	140.0
69°	6944.7	4468.7	688.6	466.8	324.0	222.4	187.2	163.3	146.1	134.1	133.5
70°	6398.3	4035.1	652.1	449.5	306.9	213.7	179.9	157.4	141.5	130.2	128.7
72.5°	4652.1	2644.0	557.0	386.5	253.1	179.3	155.3	138.1	126.1	119.6	118.1
75°	2324.6	1261.0	452.1	313.4	193.9	143.4	127.5	115.5	109.6	108.2	107.5
77.5°	763.6	577.7	323.4	233.6	144.1	112.2	102.9	94.3	93.0	96.9	95.6
80°	419.7	336.0	205.2	154.7	98.3	82.4	80.9	76.4	78.3	85.0	83.6
82.5°	213.7	174.6	126.8	93.0	66.5	59.1	64.4	61.8	64.4	70.3	69.7
85°	105.6	95.6	80.4	56.5	43.8	37.9	45.9	47.8	49.1	53.8	53.8
87.5°	61.1	56.5	42.5	26.6	21.9	19.9	26.6	26.0	30.5	33.1	32.5
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)