

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: P382973

Luminaire Tested: **GLEON-SA3B-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15442.3 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

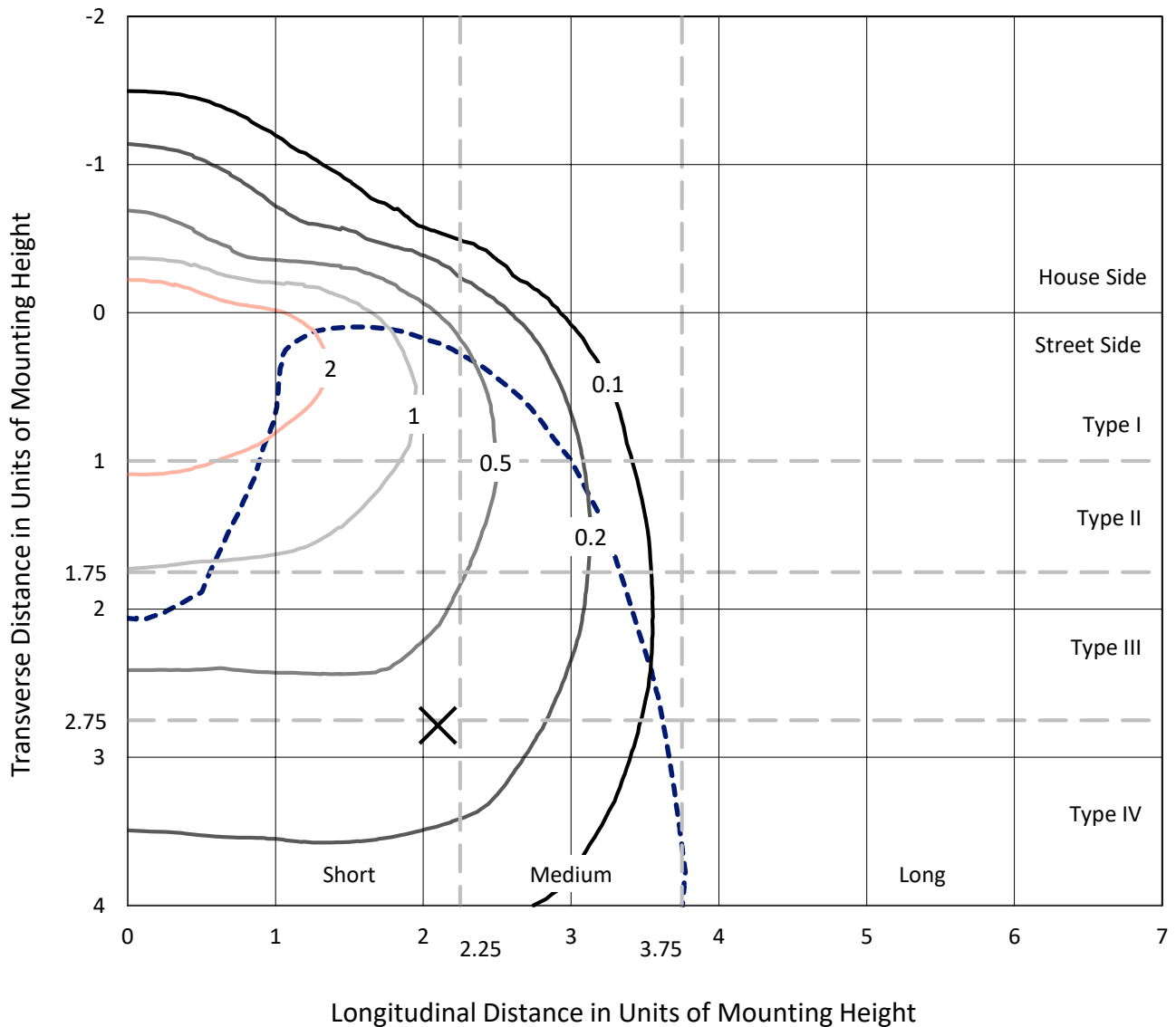
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

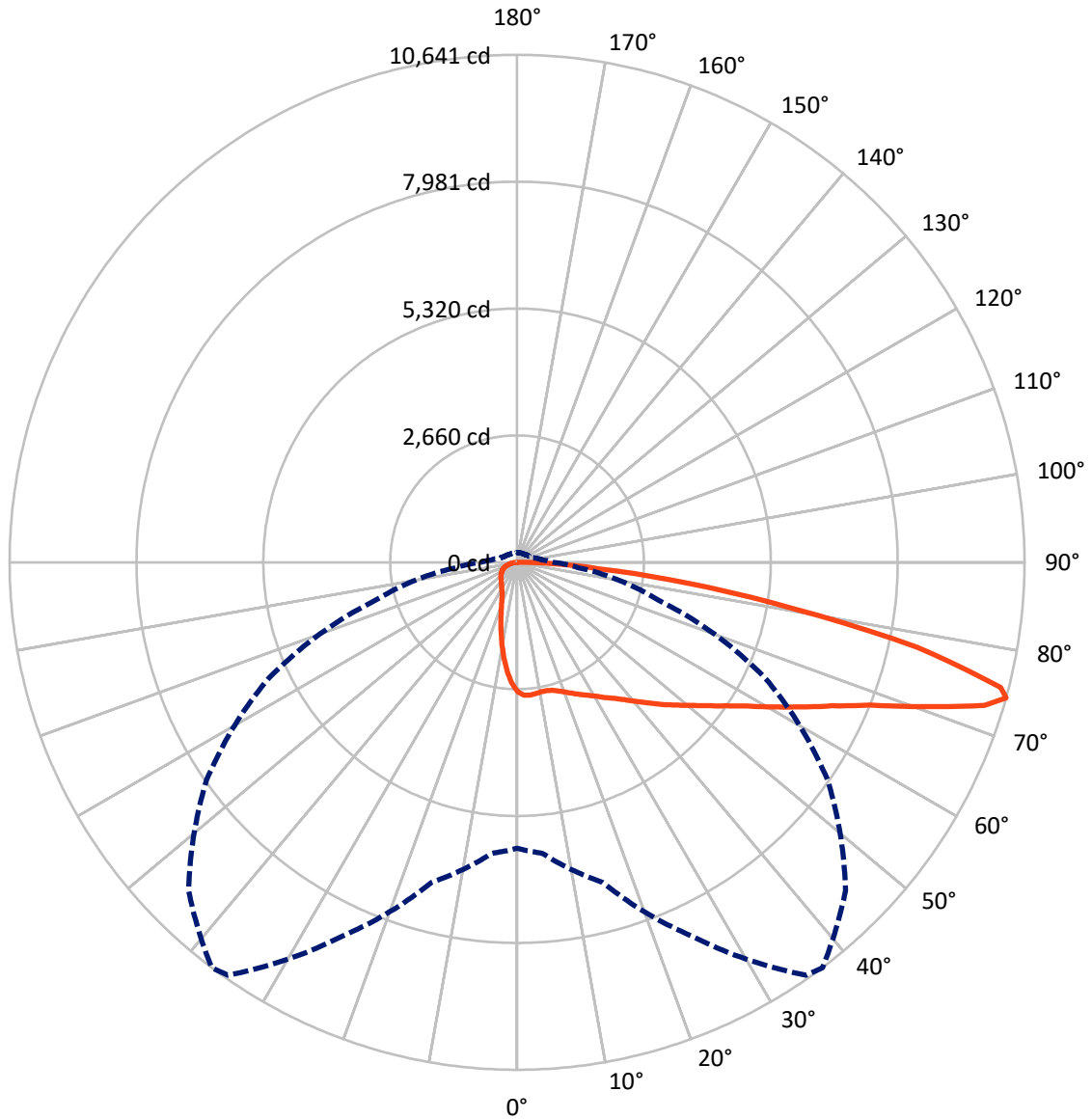
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.7	0.0	2124.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	13317.5	0.0	13317.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	15442.3	0.0	15442.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	1.6
10°-20°	614.2	4.0
20°-30°	946.3	6.1
30°-40°	1376.1	8.9
40°-50°	2025.4	13.1
50°-60°	2844.2	18.4
60°-70°	3599.9	23.3
70°-80°	3169.9	20.5
80°-90°	626.7	4.1
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°	15442.3	100.0
0°-180°	15442.3	100.0

Coefficient of Utilization



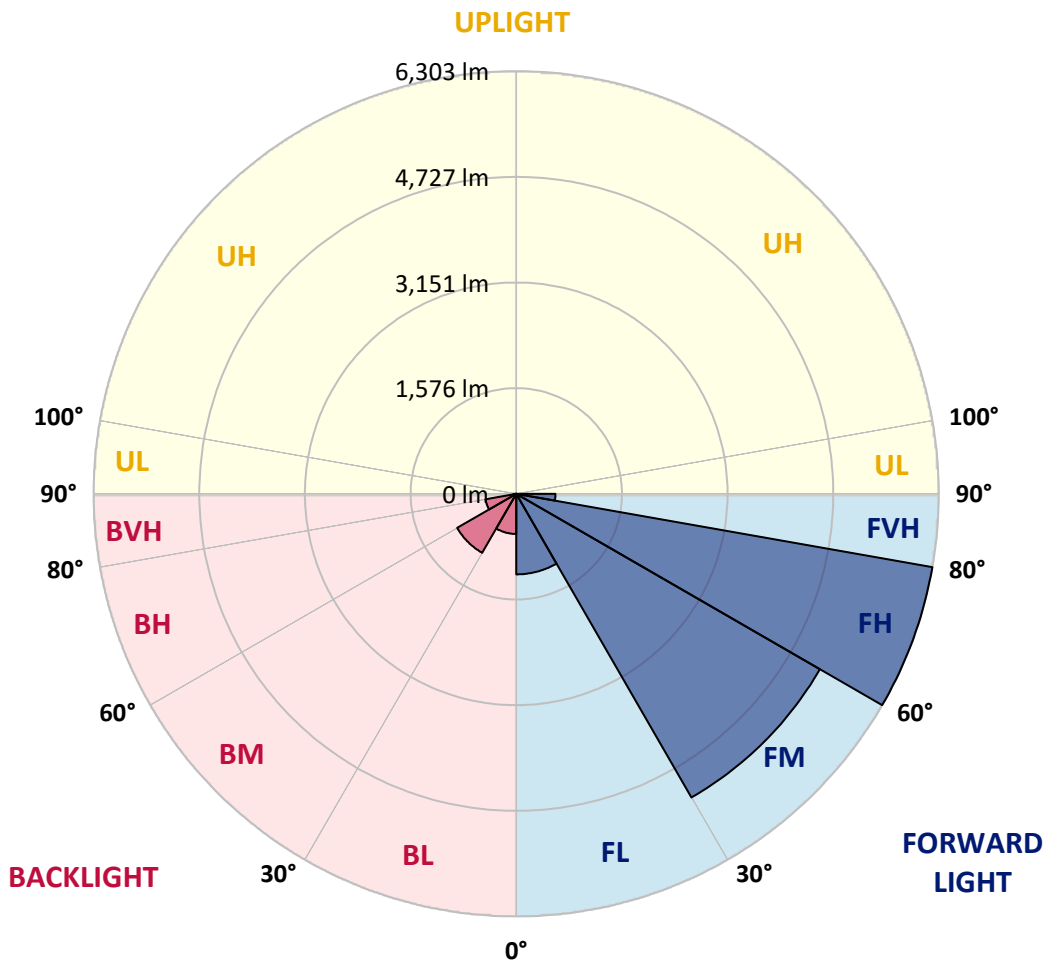
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.6	7.8			
FM (30°-60°)	5228.9	33.9			
FH (60°-80°)	6302.7	40.8			G3/7500
FVH (80°-90°)	584.3	3.8			G4/750
BL (0°-30°)	598.5	3.9	B2/1000		
BM (30°-60°)	1016.8	6.6	B2/2500		
BH (60°-80°)	467.0	3.0	B1/500		G1/500
BVH (80°-90°)	42.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9
2.5°	2813.9	2814.4	2813.9	2809.5	2799.2	2790.5	2783.5	2773.1	2750.2	2732.8	2706.7
5°	2840.6	2837.3	2835.1	2827.0	2810.7	2800.8	2787.2	2767.6	2730.1	2695.3	2652.9
7.5°	2828.0	2824.2	2819.3	2809.5	2791.0	2782.9	2763.8	2738.3	2693.1	2647.5	2586.5
10°	2789.4	2788.3	2786.2	2783.9	2768.2	2761.7	2744.2	2717.0	2672.4	2617.0	2545.7
12.5°	2746.4	2749.2	2757.8	2769.3	2762.2	2759.0	2748.1	2729.5	2683.9	2624.1	2538.1
15°	2719.3	2726.8	2750.2	2780.2	2786.2	2785.0	2782.3	2770.3	2722.0	2655.6	2555.5
17.5°	2710.0	2722.5	2767.1	2816.6	2834.0	2837.8	2838.9	2818.2	2764.4	2694.2	2573.5
20°	2726.8	2742.7	2807.9	2875.9	2903.6	2905.8	2900.9	2865.0	2804.6	2727.4	2583.3
22.5°	2778.0	2792.1	2873.7	2950.4	2982.0	2985.2	2970.5	2916.1	2847.1	2766.6	2596.9
25°	2876.4	2893.9	2975.5	3052.1	3068.4	3069.0	3047.7	2980.3	2902.5	2821.5	2626.2
27.5°	3004.8	3022.2	3095.6	3170.7	3162.0	3157.1	3128.3	3060.9	2974.9	2897.1	2678.5
30°	3147.9	3166.9	3236.6	3289.9	3269.2	3259.4	3236.0	3149.0	3075.5	3000.4	2758.4
32.5°	3295.8	3313.2	3374.2	3410.6	3384.5	3380.1	3344.8	3265.4	3206.7	3158.2	2887.9
35°	3447.6	3460.1	3519.9	3540.6	3505.8	3504.7	3494.9	3422.0	3385.1	3407.9	3076.1
37.5°	3602.6	3605.9	3657.0	3658.1	3647.8	3652.1	3662.5	3616.7	3627.1	3698.3	3320.9
40°	3740.8	3749.5	3786.5	3797.9	3815.8	3831.1	3882.8	3852.9	3932.8	4059.0	3625.5
42.5°	3843.0	3859.9	3919.2	3948.6	4006.8	4030.7	4103.6	4131.3	4292.4	4481.7	3987.8
45°	3929.5	3955.6	4050.8	4111.2	4209.7	4251.6	4356.0	4449.0	4698.7	4940.2	4369.1
47.5°	4023.1	4056.2	4175.4	4290.7	4424.6	4471.9	4661.7	4800.9	5132.3	5401.5	4728.6
50°	4160.8	4186.3	4302.7	4483.8	4650.8	4711.8	4974.5	5174.1	5572.8	5841.0	5040.3
52.5°	4352.7	4343.0	4441.4	4695.5	4919.5	4994.6	5308.4	5571.2	6019.4	6238.7	5303.6
55°	4545.9	4529.6	4598.6	4916.8	5232.9	5311.7	5676.2	5969.9	6444.3	6596.6	5505.4
57.5°	4760.7	4729.7	4787.9	5166.5	5589.7	5683.8	6087.9	6393.7	6862.0	6885.9	5633.7
60°	4982.1	4940.2	5005.5	5476.0	6042.8	6153.8	6569.9	6807.1	7255.8	7117.7	5675.1
62.5°	5175.8	5146.3	5247.0	5821.4	6553.6	6675.5	7043.2	7246.6	7644.2	7213.9	5526.0
65°	5344.9	5349.8	5523.9	6209.8	7123.1	7253.1	7586.0	7788.4	7949.9	7156.8	5177.4
67.5°	5546.7	5574.5	5871.5	6721.1	7840.0	7982.5	8375.8	8379.1	8120.7	6821.7	4490.9
70°	5841.0	5898.1	6349.6	7430.4	8859.4	9055.2	9358.8	8726.2	7880.8	5913.4	3533.5
72.5°	6102.1	6208.7	6858.2	8242.1	10101.8	10250.3	9933.7	8526.0	6878.4	4431.7	2201.4
74°	5996.0	6128.2	6950.6	8641.8	10569.6	10640.9	9739.5	7941.7	5734.9	3069.0	1279.4
75°	5767.6	5911.1	6815.8	8638.1	10510.3	10470.6	9270.7	7274.4	4723.1	2093.2	851.2
77.5°	4654.7	4806.4	5743.1	7403.2	8617.9	8580.4	7121.5	4879.8	2068.7	686.5	432.4
80°	2706.1	2822.0	3565.1	4701.4	5811.1	5879.1	4683.4	2414.7	813.8	385.7	293.2
82.5°	1202.2	1282.1	1722.2	2399.9	3506.9	3594.5	2452.7	1265.2	502.6	234.5	176.2
85°	788.7	848.0	1045.5	1142.8	1670.0	1729.8	1200.5	985.1	331.8	128.9	129.5
87.5°	567.3	624.4	776.7	678.4	766.5	725.7	653.3	911.7	133.3	73.4	43.5
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°	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9	2720.9
2.5°	2695.3	2686.6	2667.0	2630.0	2609.4	2591.9	2563.2	2546.3	2538.7	2538.1	2541.4
5°	2628.4	2608.2	2557.7	2495.7	2446.2	2401.1	2345.0	2311.3	2287.3	2273.2	2277.0
7.5°	2550.6	2519.1	2439.6	2340.6	2261.2	2173.7	2087.1	2035.5	1995.2	1965.3	1970.8
10°	2497.3	2453.8	2337.9	2195.4	2063.2	1935.9	1816.8	1745.5	1689.0	1645.5	1648.7
12.5°	2479.3	2420.6	2260.1	2069.7	1884.2	1710.2	1554.7	1445.3	1387.1	1337.6	1341.4
15°	2482.1	2403.2	2194.8	1956.6	1723.3	1504.1	1315.3	1187.4	1108.5	1074.4	1074.8
17.5°	2484.3	2383.1	2126.4	1835.3	1563.9	1311.4	1106.4	976.9	902.4	870.9	871.5
20°	2477.2	2350.4	2041.5	1696.1	1397.4	1134.7	936.1	826.3	769.7	745.2	745.2
22.5°	2467.9	2311.8	1945.7	1556.2	1233.2	981.3	814.3	730.5	697.9	681.6	681.1
25°	2472.2	2282.9	1847.8	1412.7	1081.9	858.9	733.2	677.8	656.0	645.7	645.1
27.5°	2495.7	2269.3	1757.6	1269.6	949.7	766.9	678.8	639.7	625.5	619.0	619.0
30°	2538.1	2269.3	1663.4	1147.8	839.9	698.9	637.0	610.3	600.6	596.2	596.2
32.5°	2612.1	2281.9	1572.5	1027.0	752.3	645.7	602.2	584.2	576.6	574.4	574.4
35°	2739.4	2324.3	1484.0	912.7	681.6	602.2	569.0	558.6	553.2	552.7	554.3
37.5°	2918.4	2410.8	1400.7	828.4	631.5	566.8	541.2	533.0	529.8	532.6	534.7
40°	3143.5	2528.3	1325.0	752.3	593.5	538.5	515.7	510.2	508.6	512.4	515.7
42.5°	3415.5	2687.1	1263.1	697.4	564.1	514.6	493.9	487.4	485.7	490.1	494.5
45°	3709.8	2858.0	1219.6	656.6	541.2	496.6	474.9	467.8	464.6	466.7	471.6
47.5°	3977.4	3019.5	1202.2	627.8	519.5	481.4	458.0	449.3	443.9	442.8	446.6
50°	4203.1	3139.7	1210.3	610.3	502.1	464.6	441.6	431.9	423.8	418.8	421.5
52.5°	4367.5	3215.3	1217.9	602.7	488.5	446.0	423.8	414.5	403.6	395.4	395.4
55°	4486.5	3232.7	1201.0	596.7	478.2	425.9	403.6	394.9	384.1	374.8	373.7
57.5°	4533.3	3183.8	1138.5	588.0	471.1	406.9	382.4	375.9	366.7	355.8	355.2
60°	4470.2	3032.6	1017.7	569.5	461.9	391.1	361.2	356.9	352.5	342.2	341.6
62.5°	4216.7	2700.7	861.6	532.0	443.3	374.2	341.6	343.7	344.3	337.2	336.2
65°	3757.1	2244.9	709.3	483.0	415.6	354.1	321.5	331.8	337.8	336.8	335.1
67.5°	3089.1	1747.2	601.0	431.4	379.1	326.4	299.7	311.7	316.5	320.4	319.3
70°	2292.8	1232.1	497.2	377.0	335.1	293.7	271.5	277.4	274.2	278.5	280.1
72.5°	1278.3	739.3	405.2	322.6	289.3	255.6	239.9	238.8	231.8	231.8	231.8
74°	766.9	542.3	356.3	288.9	261.7	230.7	217.1	212.1	205.6	206.2	205.6
75°	616.9	466.1	326.9	266.5	242.0	215.9	202.3	195.8	191.0	191.0	190.4
77.5°	389.5	354.1	263.3	212.1	193.7	177.8	168.6	159.9	159.9	159.4	158.8
80°	294.3	281.8	205.0	160.5	148.5	136.6	130.5	126.8	126.8	128.4	127.8
82.5°	201.8	212.1	144.1	112.1	106.1	97.3	96.3	96.8	95.2	93.1	92.5
85°	147.4	159.4	97.3	70.7	64.7	59.2	63.6	65.9	63.1	58.2	56.0
87.5°	56.5	104.4	52.3	29.3	27.2	23.4	27.2	28.3	30.5	23.9	24.5
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)