

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: P320118

Luminaire Tested: **GLEON-SA4B-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320118
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-SA4B-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 16103 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

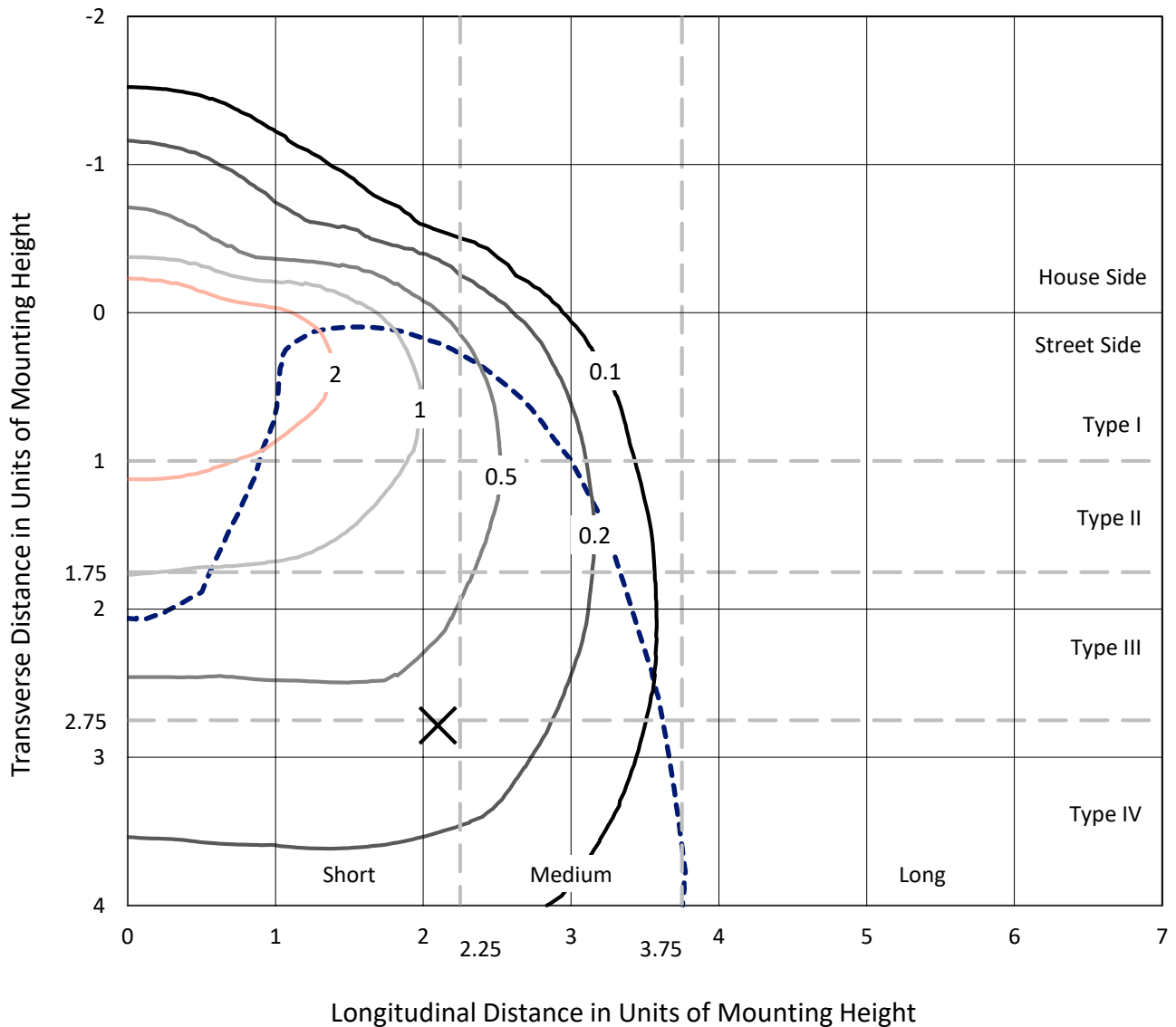
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

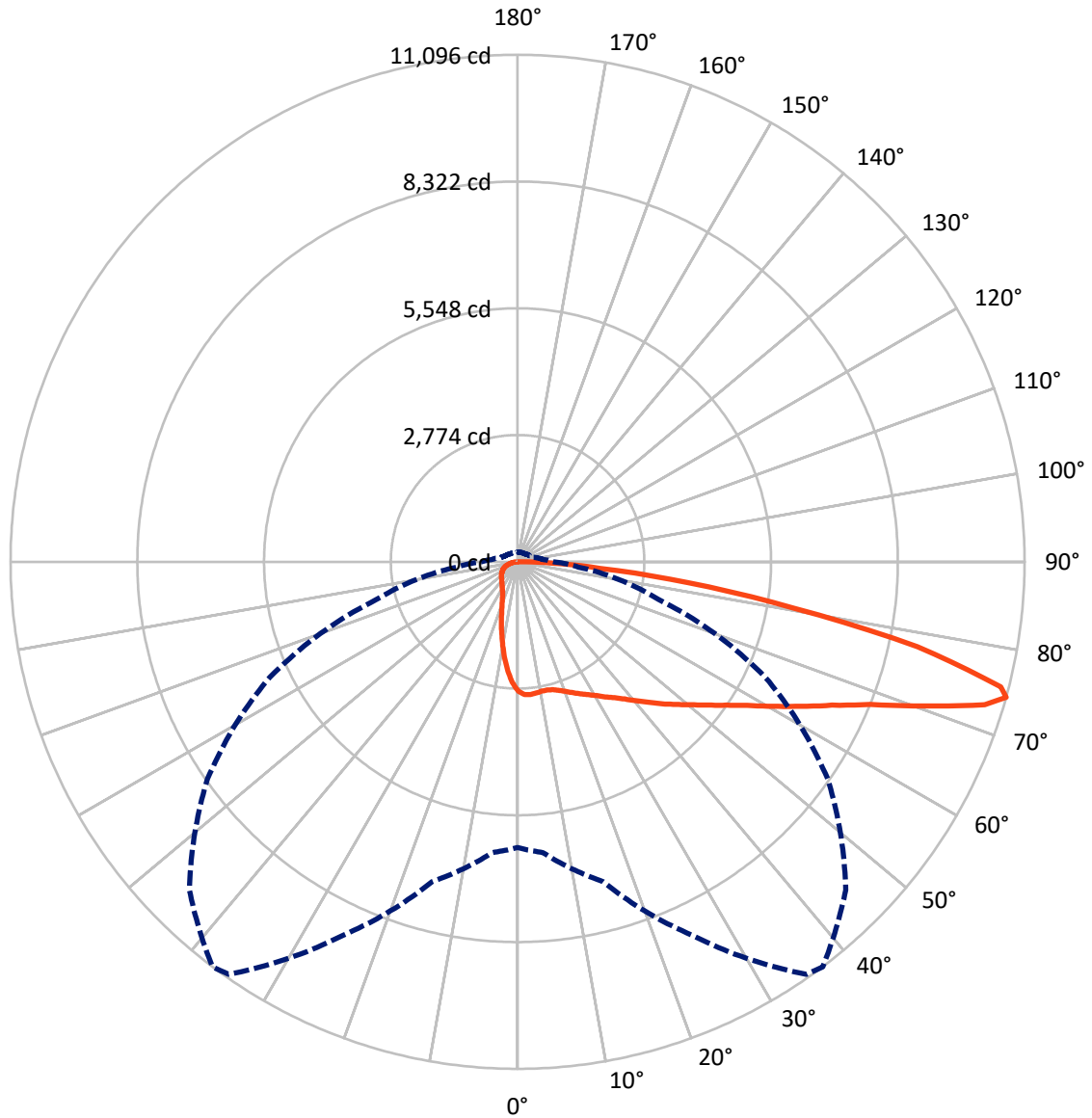
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2215.7	0.0	2215.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	13887.3	0.0	13887.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	16103.0	0.0	16103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	1.6
10°-20°	640.4	4.0
20°-30°	986.8	6.1
30°-40°	1434.9	8.9
40°-50°	2112.0	13.1
50°-60°	2965.9	18.4
60°-70°	3754.0	23.3
70°-80°	3305.5	20.5
80°-90°	653.6	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°	16103.0	100.0
0°-180°	16103.0	100.0

Coefficient of Utilization

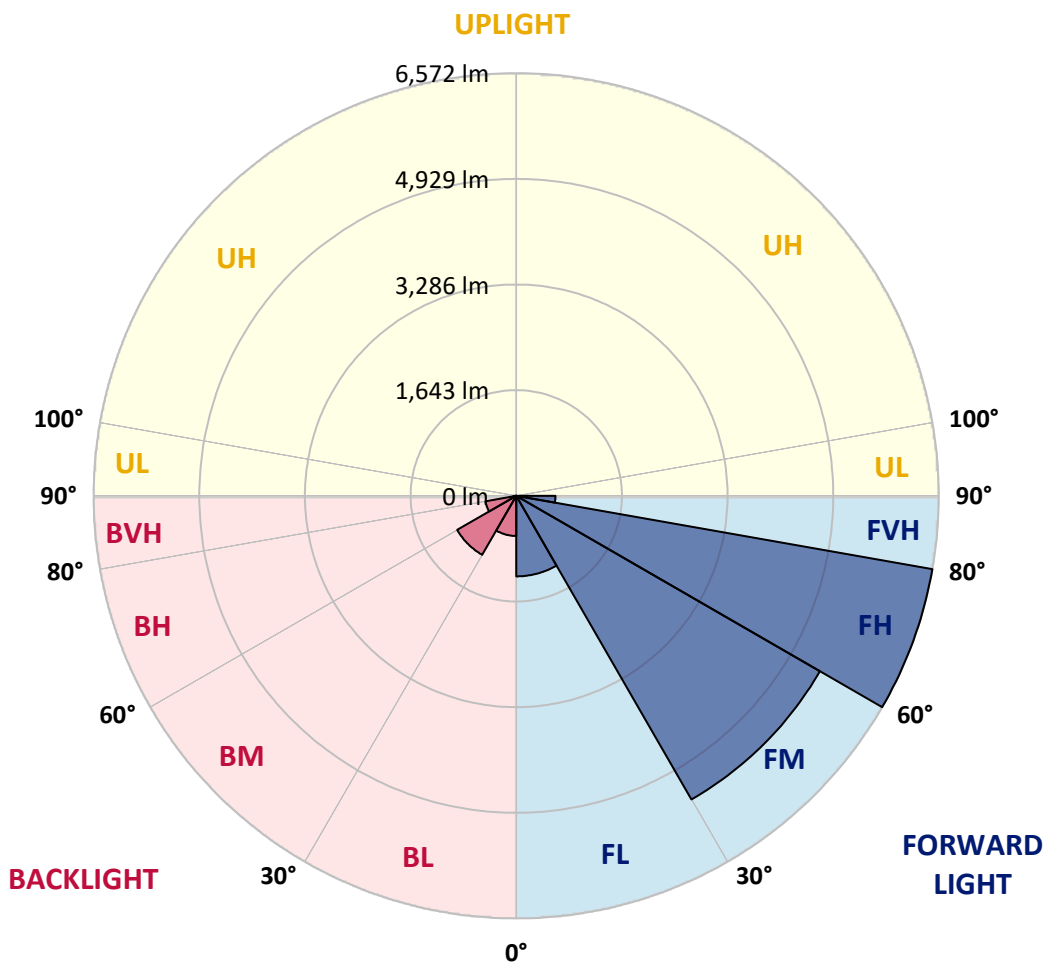


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.0	7.8			
FM (30°-60°)	5452.6	33.9			
FH (60°-80°)	6572.4	40.8			G3/7500
FVH (80°-90°)	609.3	3.8			G4/750
BL (0°-30°)	624.1	3.9	B2/1000		
BM (30°-60°)	1060.3	6.6	B2/2500		
BH (60°-80°)	487.0	3.0	B1/500		G1/500
BVH (80°-90°)	44.3	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°	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3
2.5°	2934.3	2934.8	2934.3	2929.7	2919.0	2909.9	2902.5	2891.7	2867.9	2849.8	2822.5
5°	2962.1	2958.7	2956.4	2947.9	2930.9	2920.7	2906.5	2886.1	2846.9	2810.6	2766.4
7.5°	2949.0	2945.1	2940.0	2929.7	2910.5	2902.0	2882.1	2855.4	2808.4	2760.7	2697.2
10°	2908.8	2907.6	2905.4	2903.1	2886.6	2879.8	2861.7	2833.3	2786.8	2728.9	2654.6
12.5°	2863.9	2866.8	2875.9	2887.8	2880.4	2877.0	2865.6	2846.4	2798.7	2736.3	2646.7
15°	2835.6	2843.5	2867.9	2899.1	2905.4	2904.2	2901.4	2888.9	2838.4	2769.2	2664.8
17.5°	2825.9	2839.0	2885.5	2937.1	2955.3	2959.2	2960.4	2938.8	2882.7	2809.5	2683.6
20°	2843.5	2860.0	2928.0	2998.9	3027.9	3030.1	3025.0	2987.6	2924.6	2844.1	2693.8
22.5°	2896.8	2911.6	2996.7	3076.7	3109.6	3113.0	3097.6	3040.9	2968.9	2884.9	2708.0
25°	2999.5	3017.7	3102.7	3182.7	3199.7	3200.3	3178.2	3107.9	3026.7	2942.2	2738.6
27.5°	3133.4	3151.5	3228.1	3306.4	3297.3	3292.2	3262.1	3191.8	3102.2	3021.1	2793.0
30°	3282.6	3302.4	3375.0	3430.6	3409.1	3398.8	3374.5	3283.7	3207.1	3128.8	2876.4
32.5°	3436.8	3455.0	3518.5	3556.5	3529.3	3524.8	3487.9	3405.1	3343.8	3293.3	3011.4
35°	3595.1	3608.2	3670.5	3692.1	3655.8	3654.7	3644.5	3568.4	3529.9	3553.7	3207.7
37.5°	3756.8	3760.2	3813.5	3814.6	3803.8	3808.4	3819.2	3771.5	3782.3	3856.6	3462.9
40°	3900.8	3909.9	3948.5	3960.4	3979.1	3995.0	4048.9	4017.7	4101.1	4232.7	3780.6
42.5°	4007.5	4025.1	4086.9	4117.5	4178.2	4203.2	4279.2	4308.1	4476.0	4673.4	4158.4
45°	4097.7	4124.9	4224.2	4287.1	4389.8	4433.5	4542.4	4639.4	4899.7	5151.6	4556.0
47.5°	4195.2	4229.8	4354.1	4474.3	4613.9	4663.2	4861.2	5006.4	5351.8	5632.6	4930.9
50°	4338.7	4365.4	4486.8	4675.7	4849.8	4913.3	5187.3	5395.5	5811.3	6090.9	5256.0
52.5°	4539.0	4528.8	4631.4	4896.3	5130.0	5208.3	5535.6	5809.6	6277.0	6505.6	5530.5
55°	4740.3	4723.3	4795.4	5127.2	5456.8	5539.0	5919.0	6225.4	6720.0	6878.8	5740.9
57.5°	4964.4	4932.1	4992.8	5387.6	5828.9	5927.0	6348.4	6667.2	7155.6	7180.6	5874.8
60°	5195.3	5151.6	5219.7	5710.3	6301.4	6417.1	6851.0	7098.3	7566.3	7422.2	5917.9
62.5°	5397.2	5366.6	5471.5	6070.5	6834.0	6961.1	7344.5	7556.6	7971.3	7522.6	5762.5
65°	5573.6	5578.7	5760.2	6475.5	7427.9	7563.4	7910.6	8121.6	8290.1	7463.0	5398.9
67.5°	5784.0	5813.0	6122.7	7008.7	8175.5	8324.1	8734.2	8737.6	8468.2	7113.6	4683.1
70°	6090.9	6150.5	6621.3	7748.4	9238.5	9442.7	9759.2	9099.5	8218.0	6166.4	3684.7
72.5°	6363.2	6474.4	7151.6	8594.7	10534.0	10688.9	10358.8	8890.8	7172.6	4621.2	2295.6
74°	6252.6	6390.4	7248.1	9011.6	11021.9	11096.2	10156.3	8281.6	5980.3	3200.3	1334.1
75°	6014.3	6164.1	7107.4	9007.6	10960.0	10918.6	9667.3	7585.6	4925.3	2182.7	887.7
77.5°	4853.8	5012.0	5988.8	7720.0	8986.6	8947.5	7426.2	5088.6	2157.2	715.8	450.9
80°	2822.0	2942.8	3717.6	4902.6	6059.7	6130.6	4883.9	2517.9	848.6	402.2	305.7
82.5°	1253.6	1337.0	1795.9	2502.6	3656.9	3748.3	2557.6	1319.4	524.1	244.5	183.8
85°	822.5	884.3	1090.2	1191.8	1741.4	1803.8	1251.9	1027.3	346.0	134.4	135.0
87.5°	591.6	651.2	810.0	707.3	799.2	756.7	681.2	950.7	139.0	76.6	45.4
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°	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3	2837.3
2.5°	2810.6	2801.6	2781.1	2742.6	2721.0	2702.9	2672.8	2655.2	2647.3	2646.7	2650.1
5°	2740.9	2719.9	2667.1	2602.5	2550.8	2503.8	2445.3	2410.2	2385.2	2370.5	2374.4
7.5°	2659.7	2626.8	2544.0	2440.8	2358.0	2266.7	2176.5	2122.6	2080.6	2049.4	2055.1
10°	2604.2	2558.8	2438.0	2289.3	2151.5	2018.8	1894.5	1820.2	1761.3	1715.9	1719.3
12.5°	2585.4	2524.2	2356.8	2158.3	1964.9	1783.4	1621.1	1507.1	1446.4	1394.8	1398.8
15°	2588.3	2506.0	2288.8	2040.3	1797.0	1568.4	1371.6	1238.3	1156.0	1120.3	1120.8
17.5°	2590.5	2485.0	2217.3	1913.8	1630.8	1367.6	1153.7	1018.7	941.0	908.1	908.7
20°	2583.2	2451.0	2128.8	1768.6	1457.2	1183.2	976.2	861.6	802.6	777.1	777.1
22.5°	2573.5	2410.7	2029.0	1622.8	1285.9	1023.3	849.1	761.8	727.8	710.7	710.2
25°	2578.1	2380.7	1926.9	1473.1	1128.2	895.7	764.6	706.8	684.1	673.3	672.7
27.5°	2602.5	2366.5	1832.7	1323.9	990.4	799.8	707.9	667.1	652.3	645.5	645.5
30°	2646.7	2366.5	1734.6	1196.9	875.8	728.9	664.2	636.4	626.2	621.7	621.7
32.5°	2723.8	2379.5	1639.9	1070.9	784.5	673.3	627.9	609.2	601.3	599.0	599.0
35°	2856.6	2423.8	1547.4	951.8	710.7	627.9	593.3	582.5	576.9	576.3	578.0
37.5°	3043.2	2514.0	1460.6	863.9	658.6	591.1	564.4	555.9	552.5	555.3	557.6
40°	3278.0	2636.5	1381.8	784.5	618.8	561.6	537.7	532.1	530.4	534.3	537.7
42.5°	3561.6	2802.1	1317.1	727.2	588.2	536.6	515.0	508.2	506.5	511.1	515.6
45°	3868.5	2980.2	1271.7	684.6	564.4	517.9	495.2	487.8	484.4	486.7	491.8
47.5°	4147.6	3148.7	1253.6	654.6	541.7	502.0	477.6	468.5	462.9	461.7	465.7
50°	4383.0	3274.1	1262.1	636.4	523.6	484.4	460.6	450.4	441.9	436.8	439.6
52.5°	4554.3	3352.9	1270.0	628.5	509.4	465.1	441.9	432.2	420.9	412.4	412.4
55°	4678.5	3371.0	1252.4	622.3	498.6	444.1	420.9	411.8	400.5	390.8	389.7
57.5°	4727.3	3320.0	1187.2	613.2	491.2	424.3	398.8	392.0	382.3	371.0	370.4
60°	4661.5	3162.3	1061.3	593.9	481.6	407.8	376.6	372.1	367.6	356.8	356.2
62.5°	4397.2	2816.3	898.5	554.8	462.3	390.3	356.2	358.5	359.1	351.7	350.5
65°	3917.9	2341.0	739.7	503.7	433.4	369.3	335.2	346.0	352.3	351.1	349.4
67.5°	3221.3	1821.9	626.8	449.8	395.4	340.3	312.5	325.0	330.1	334.1	333.0
70°	2390.9	1284.8	518.4	393.1	349.4	306.3	283.0	289.3	285.9	290.4	292.1
72.5°	1333.0	770.9	422.6	336.4	301.8	266.6	250.1	249.0	241.6	241.6	241.6
74°	799.8	565.5	371.5	301.2	272.8	240.5	226.3	221.2	214.4	215.0	214.4
75°	643.2	486.1	340.9	277.9	252.4	225.2	211.0	204.2	199.1	199.1	198.5
77.5°	406.1	369.3	274.5	221.2	201.9	185.5	175.8	166.8	166.8	166.2	165.6
80°	306.9	293.8	213.8	167.3	154.9	142.4	136.1	132.2	132.2	133.9	133.3
82.5°	210.4	221.2	150.3	116.8	110.6	101.5	100.4	101.0	99.3	97.0	96.4
85°	153.7	166.2	101.5	73.7	67.5	61.8	66.4	68.6	65.8	60.7	58.4
87.5°	59.0	108.9	54.5	30.6	28.4	24.4	28.4	29.5	31.8	25.0	25.5
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)