

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: P452434

Luminaire Tested: **GALN-SA3B-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 12223 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

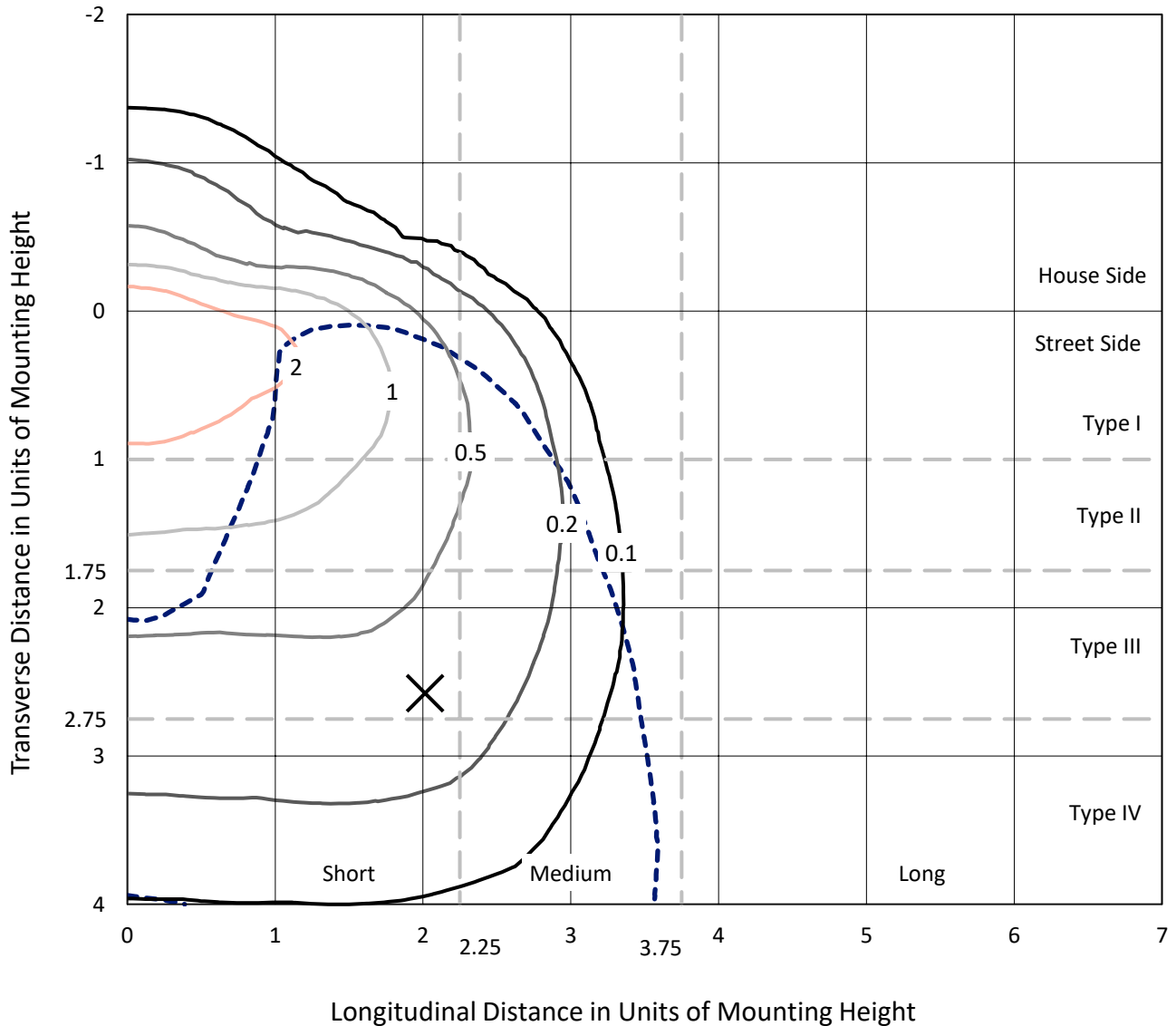
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

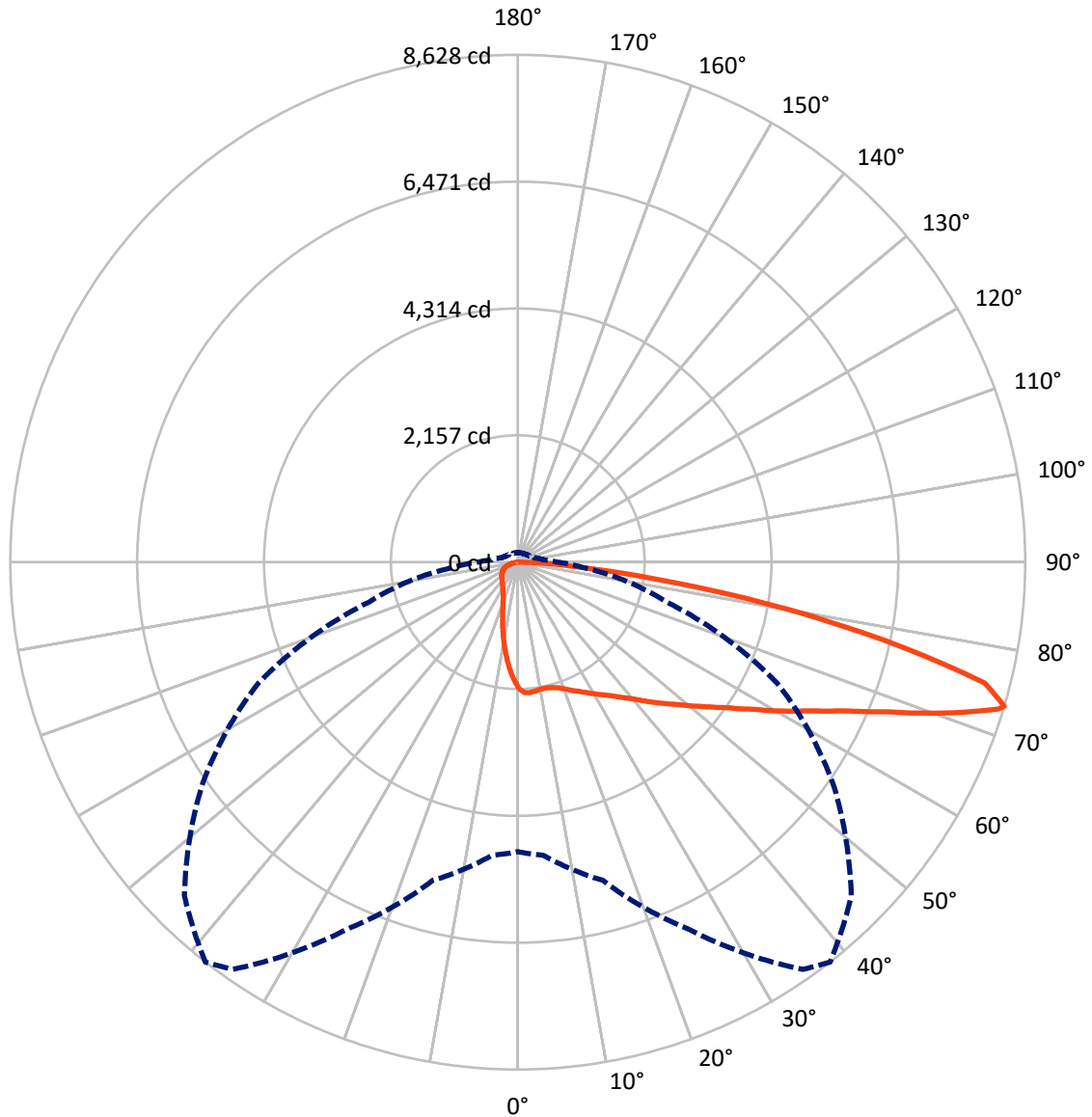
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1643.1	0.0	1643.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10579.9	0.0	10579.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	12223.0	0.0	12223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	1.5
10°-20°	480.7	3.9
20°-30°	748.5	6.1
30°-40°	1097.9	9.0
40°-50°	1628.5	13.3
50°-60°	2307.3	18.9
60°-70°	2926.9	23.9
70°-80°	2436.4	19.9
80°-90°	409.4	3.3
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°	12223.0	100.0
0°-180°	12223.0	100.0

Coefficient of Utilization



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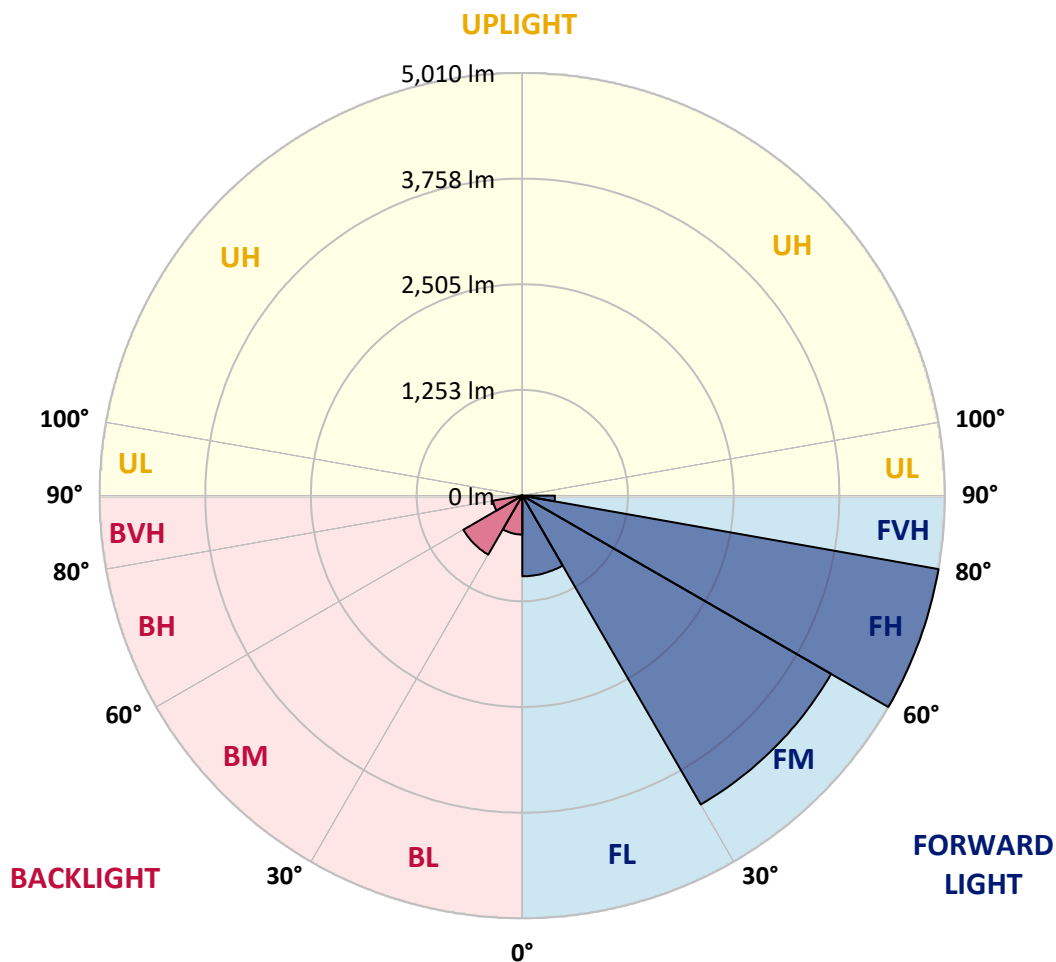
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.5	7.8			
FM (30°-60°)	4227.0	34.6			
FH (60°-80°)	5010.2	41.0			G3/7500
FVH (80°-90°)	387.2	3.2			G3/500
BL (0°-30°)	461.1	3.8	B1/500		
BM (30°-60°)	806.7	6.6	B1/1000		
BH (60°-80°)	353.2	2.9	B1/500		G1/500
BVH (80°-90°)	22.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4
2.5°	2233.7	2244.7	2239.2	2231.6	2226.8	2221.9	2215.0	2195.0	2179.1	2161.9	2134.9
5°	2250.2	2257.1	2252.3	2242.6	2231.6	2226.8	2213.6	2187.4	2161.9	2132.9	2092.8
7.5°	2240.6	2243.3	2237.8	2226.1	2216.4	2207.4	2192.2	2163.2	2132.2	2097.0	2044.5
10°	2206.0	2216.4	2216.4	2206.7	2197.1	2192.2	2177.1	2149.4	2121.1	2081.1	2019.0
12.5°	2177.7	2188.8	2197.8	2195.0	2194.3	2194.3	2182.6	2161.9	2128.7	2090.8	2016.9
15°	2158.4	2171.5	2190.9	2201.9	2208.8	2210.9	2206.0	2188.1	2154.3	2110.1	2025.2
17.5°	2154.3	2170.2	2205.4	2229.5	2247.5	2246.8	2245.4	2220.5	2183.3	2137.7	2035.6
20°	2172.9	2193.6	2242.6	2280.6	2306.8	2302.0	2294.4	2262.0	2218.5	2167.4	2045.2
22.5°	2228.8	2250.2	2304.1	2345.5	2371.0	2371.0	2348.2	2305.4	2259.2	2201.9	2058.3
25°	2308.9	2332.4	2389.7	2431.8	2443.5	2434.5	2411.7	2360.0	2306.8	2251.6	2085.9
27.5°	2406.9	2435.2	2488.4	2523.6	2520.1	2513.2	2489.7	2423.5	2370.3	2319.9	2132.9
30°	2529.1	2549.8	2605.0	2613.3	2600.9	2599.5	2566.4	2500.1	2450.4	2411.7	2199.8
32.5°	2644.4	2663.0	2707.2	2710.6	2688.5	2691.3	2660.2	2599.5	2571.2	2557.4	2312.3
35°	2766.5	2776.2	2814.2	2810.0	2795.5	2793.4	2781.0	2723.0	2732.0	2756.9	2471.8
37.5°	2868.7	2888.0	2909.4	2912.9	2912.2	2919.1	2927.4	2899.7	2951.5	3029.5	2680.9
40°	2962.6	2979.1	3010.9	3021.9	3048.8	3062.6	3090.9	3091.6	3211.1	3339.4	2938.4
42.5°	3026.1	3054.4	3113.7	3133.7	3199.3	3240.7	3282.8	3327.7	3501.0	3665.9	3242.1
45°	3081.3	3118.6	3217.3	3279.4	3368.4	3418.8	3507.9	3601.7	3850.9	4067.0	3550.7
47.5°	3164.8	3197.9	3311.1	3420.9	3555.5	3613.5	3746.7	3886.8	4212.6	4449.4	3846.1
50°	3280.8	3300.8	3416.1	3594.8	3766.7	3841.3	4017.3	4219.5	4599.1	4826.9	4105.6
52.5°	3429.2	3437.5	3529.3	3767.4	3993.8	4086.3	4319.6	4555.7	4937.4	5154.8	4311.3
55°	3604.5	3590.7	3662.5	3950.3	4253.3	4374.1	4624.7	4896.0	5317.7	5419.9	4461.1
57.5°	3777.7	3756.4	3813.6	4172.6	4573.6	4719.3	5011.2	5246.6	5657.3	5667.7	4566.0
60°	3961.4	3945.5	4013.8	4433.5	4966.4	5138.9	5408.8	5610.4	5985.9	5840.2	4582.6
62.5°	4149.8	4124.3	4221.6	4726.8	5408.8	5565.5	5827.1	5996.9	6308.2	5904.4	4423.1
65°	4332.7	4321.0	4471.5	5075.4	5912.7	6090.8	6344.8	6460.1	6566.4	5807.8	4027.6
67.5°	4527.4	4550.8	4791.0	5540.7	6569.8	6793.5	7067.5	6959.1	6640.2	5350.1	3391.9
70°	4824.2	4839.4	5210.7	6150.1	7416.8	7686.6	7819.2	7136.5	6284.1	4481.1	2549.8
72.5°	4951.9	5018.8	5585.5	6790.0	8379.0	8543.9	8071.8	6741.0	5234.9	3044.0	1339.8
73°	4923.6	5003.6	5602.8	6887.3	8454.2	8627.5	8018.0	6537.4	4866.3	2621.6	1148.6
75°	4570.8	4669.6	5378.4	6805.9	8307.9	8204.3	7152.4	5571.7	3288.4	1192.1	523.2
77.5°	3606.6	3634.9	4261.6	5495.8	6542.2	6350.3	5352.9	3482.3	1343.2	443.1	296.8
80°	1809.2	1913.4	2402.1	3148.2	4374.8	4312.0	3378.8	1646.9	559.8	260.2	196.7
82.5°	870.4	944.3	1170.0	1535.1	2417.3	2360.0	1673.2	900.1	355.5	151.9	116.0
85°	560.5	615.7	744.8	732.4	994.0	949.1	751.7	681.3	210.5	79.4	80.8
87.5°	370.0	405.2	485.9	388.6	361.7	327.2	332.0	383.8	41.4	30.4	11.0
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°	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4	2147.4
2.5°	2123.9	2114.9	2085.3	2056.3	2028.7	2002.4	1985.2	1962.4	1947.2	1951.3	1957.6
5°	2070.8	2050.7	1998.3	1947.2	1898.9	1841.6	1795.3	1758.1	1729.8	1719.4	1717.3
7.5°	2014.8	1981.0	1905.8	1818.1	1736.0	1664.9	1582.7	1542.0	1494.4	1477.8	1472.3
10°	1981.0	1935.5	1829.9	1707.7	1584.1	1466.1	1377.1	1304.6	1239.0	1226.6	1220.4
12.5°	1971.4	1911.3	1769.1	1611.7	1447.5	1302.5	1170.7	1075.4	1011.9	997.4	976.0
15°	1965.8	1891.3	1712.5	1515.1	1306.6	1129.9	991.2	880.1	822.1	783.4	784.1
17.5°	1961.0	1868.5	1649.0	1409.5	1185.2	981.5	828.3	728.2	675.1	654.4	652.3
20°	1954.1	1841.6	1575.8	1298.4	1046.4	846.2	707.5	633.0	597.1	579.8	579.1
22.5°	1951.3	1815.4	1504.1	1185.2	923.6	742.0	627.4	575.0	552.2	540.5	540.5
25°	1958.2	1796.7	1428.8	1077.5	814.5	653.0	572.2	536.3	523.2	517.0	514.9
27.5°	1979.6	1788.4	1354.3	969.8	714.4	592.2	534.9	510.1	500.4	495.6	496.3
30°	2020.4	1787.8	1281.1	863.5	639.9	546.0	505.3	488.0	480.4	477.7	477.0
32.5°	2085.9	1802.9	1209.3	775.8	577.1	507.3	477.7	465.2	461.8	459.7	459.0
35°	2197.1	1845.7	1138.2	695.8	528.7	472.8	451.4	445.2	440.4	442.5	443.1
37.5°	2346.9	1919.6	1070.6	633.0	492.1	447.3	429.3	423.8	421.1	423.1	425.2
40°	2547.7	2025.9	1014.0	582.6	465.9	425.9	410.0	405.2	402.4	405.9	406.6
42.5°	2769.3	2148.8	967.0	543.2	444.5	407.9	392.8	387.2	385.2	387.2	387.9
45°	2997.1	2291.6	942.9	514.9	426.6	394.8	378.9	372.7	367.9	366.5	368.6
47.5°	3221.4	2415.9	942.2	497.7	412.1	383.1	365.8	358.9	352.7	349.3	348.6
50°	3404.3	2514.6	958.8	490.1	399.7	370.0	352.7	345.8	337.5	330.6	332.0
52.5°	3542.4	2578.8	966.4	486.6	392.8	356.2	338.9	332.7	323.0	314.1	314.1
55°	3631.4	2594.0	947.7	483.2	387.2	341.7	323.0	317.5	307.9	298.9	298.9
57.5°	3661.8	2547.0	880.8	474.9	381.7	329.3	307.2	302.3	294.7	285.8	284.4
60°	3591.4	2388.3	763.4	450.0	370.7	316.1	289.9	287.8	285.1	277.5	276.8
62.5°	3320.1	2051.4	635.7	417.6	352.0	302.3	274.0	277.5	279.6	275.4	274.7
65°	2868.7	1665.6	543.2	372.7	327.2	283.0	256.8	265.7	271.3	271.3	269.9
67.5°	2326.8	1279.0	457.6	334.1	296.1	256.8	237.4	244.3	248.5	247.1	250.6
70°	1653.8	866.3	372.7	289.9	256.8	227.1	212.6	212.6	209.8	208.5	208.5
72.5°	802.1	494.9	302.3	242.3	218.8	194.0	182.2	177.4	171.9	171.2	167.7
73°	670.2	443.8	288.5	233.3	209.8	189.1	176.0	168.4	165.0	162.2	161.5
75°	407.9	336.8	240.9	196.7	178.8	162.9	151.2	144.3	140.8	138.7	138.1
77.5°	268.5	251.3	187.1	150.5	136.7	127.0	122.2	115.3	113.2	110.4	110.4
80°	200.2	191.9	133.9	106.3	98.0	89.7	88.4	87.0	81.4	78.0	76.6
82.5°	129.1	136.7	91.1	71.1	62.1	55.2	55.9	58.0	52.5	47.6	46.2
85°	91.8	98.7	55.2	32.4	26.2	22.8	25.5	22.8	23.5	18.6	15.2
87.5°	15.2	26.2	9.7	4.1	2.1	1.4	0.0	0.0	0.0	0.0	0.0
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)