

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: P451388

Luminaire Tested: **GALN-SA2B-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 10329 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

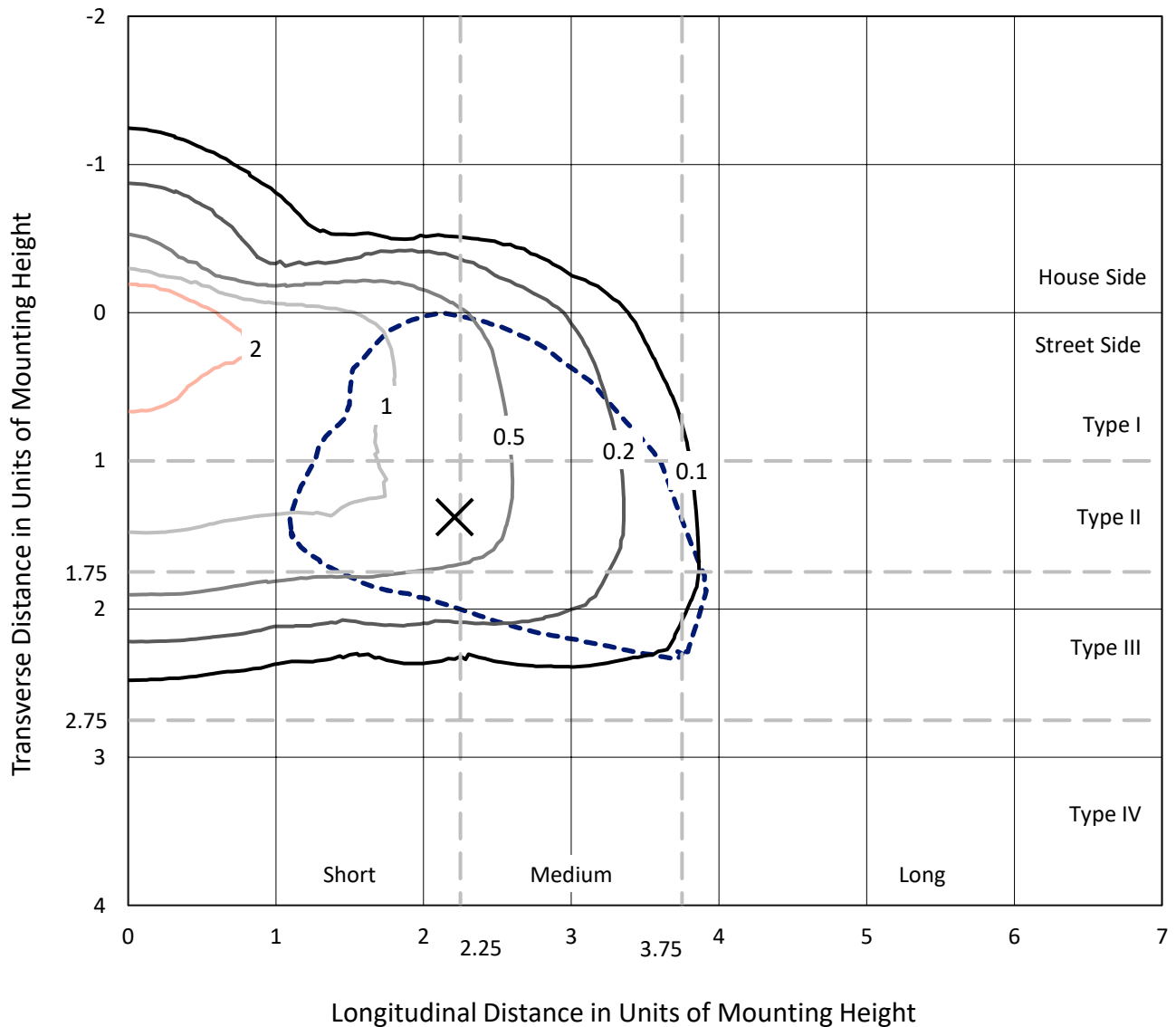
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

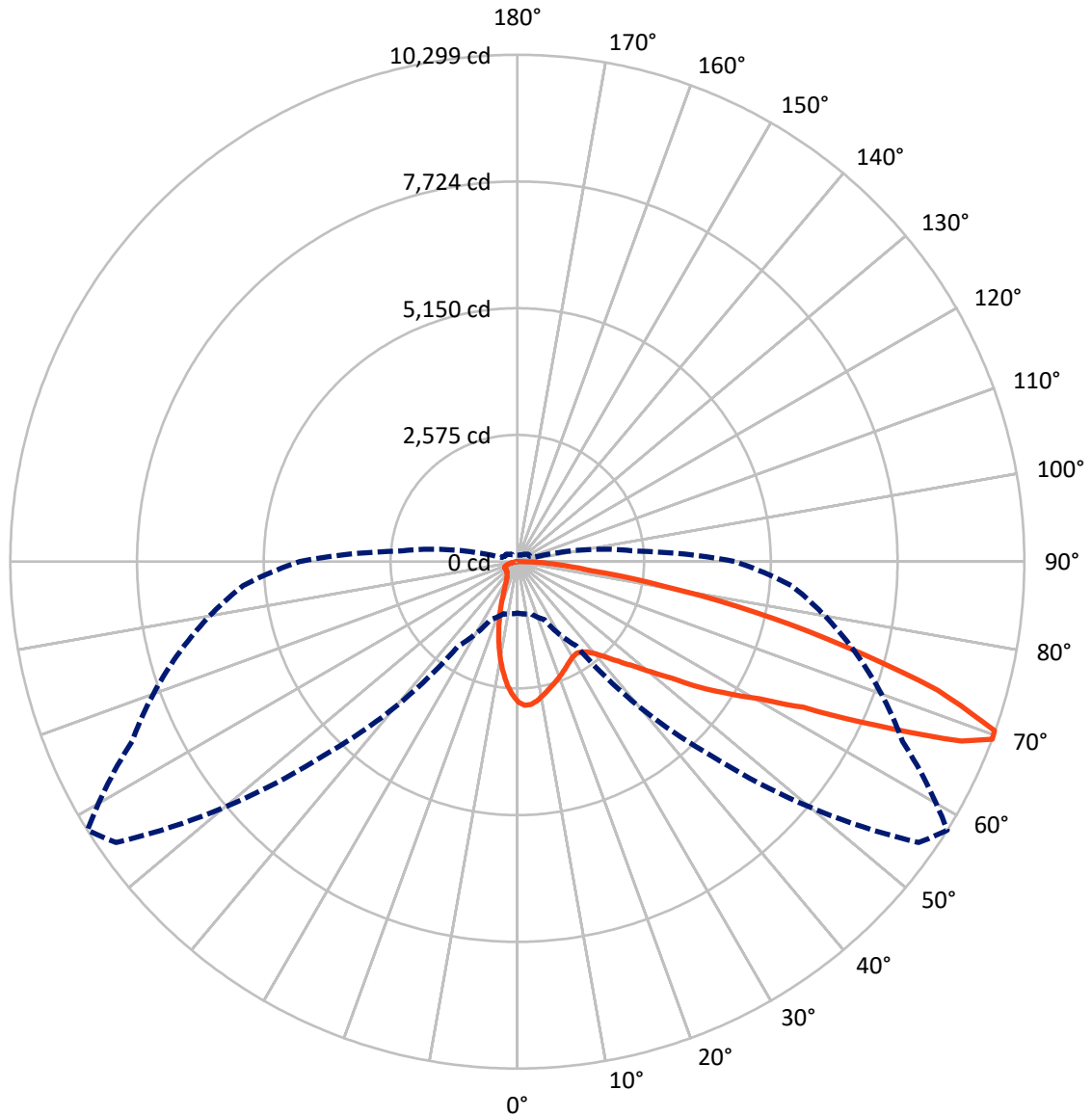
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1513.7	0.0	1513.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8815.3	0.0	8815.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	10329.0	0.0	10329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	2.3
10°-20°	532.3	5.2
20°-30°	687.7	6.7
30°-40°	893.2	8.6
40°-50°	1298.6	12.6
50°-60°	2072.1	20.1
60°-70°	2768.1	26.8
70°-80°	1595.7	15.4
80°-90°	239.0	2.3
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°	10329.0	100.0
0°-180°	10329.0	100.0

Coefficient of Utilization



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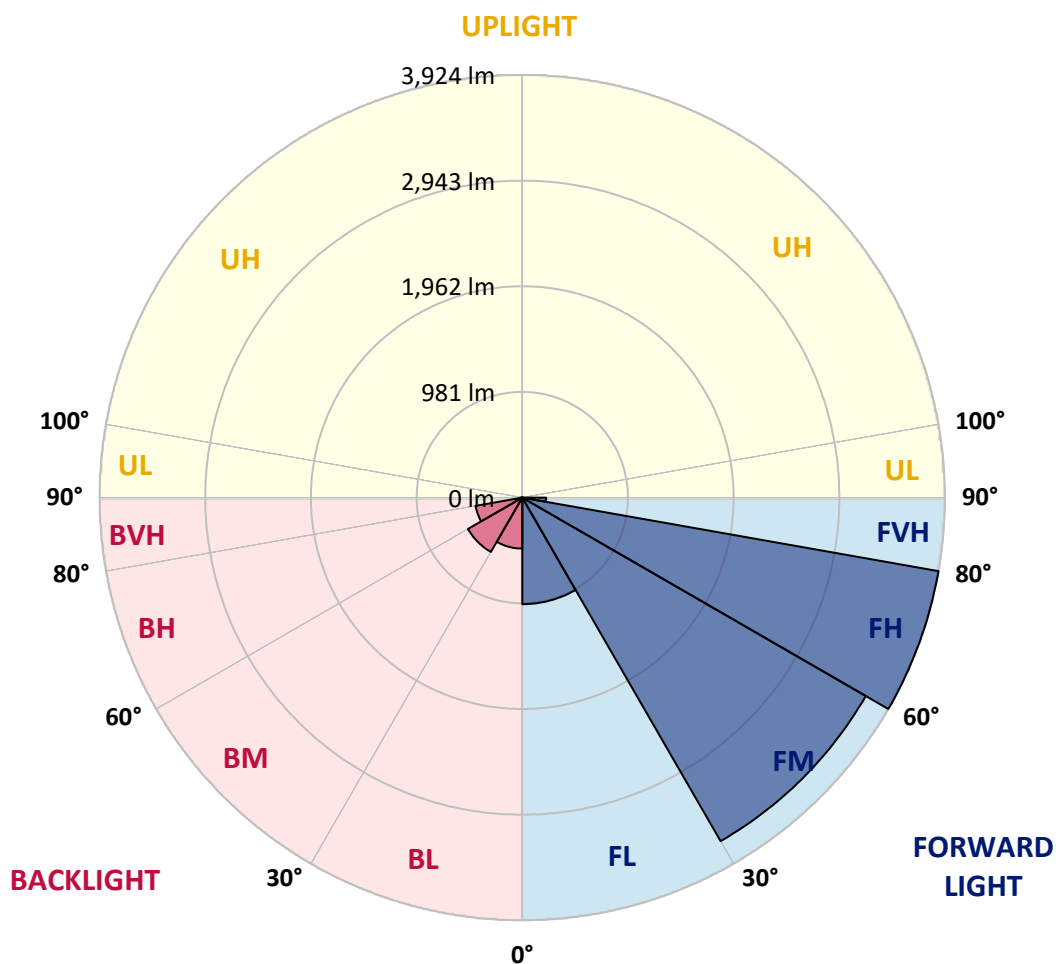
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.3	9.6			
FM (30°-60°)	3681.8	35.6			
FH (60°-80°)	3923.6	38.0			G2/5000
FVH (80°-90°)	220.7	2.1			G2/225
BL (0°-30°)	473.1	4.6	B1/500		
BM (30°-60°)	582.1	5.6	B1/1000		
BH (60°-80°)	440.2	4.3	B1/500		G1/500
BVH (80°-90°)	18.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3
2.5°	2960.3	2968.4	2966.1	2963.2	2958.6	2945.9	2925.2	2921.7	2908.5	2880.3	2845.1
5°	2914.8	2921.7	2922.3	2926.3	2932.1	2929.8	2914.8	2913.1	2893.5	2855.5	2796.7
7.5°	2758.7	2767.9	2788.1	2810.6	2830.7	2849.7	2854.3	2857.2	2845.1	2801.3	2723.0
10°	2583.0	2592.2	2601.4	2634.9	2684.4	2731.6	2770.8	2776.0	2778.9	2738.5	2642.9
12.5°	2388.3	2407.3	2426.9	2476.4	2542.7	2617.0	2686.1	2697.1	2716.7	2686.1	2573.8
15°	2223.0	2242.6	2270.8	2315.1	2395.2	2502.4	2599.7	2617.6	2656.2	2640.6	2509.3
17.5°	2108.3	2115.3	2134.8	2185.5	2271.9	2384.8	2515.0	2550.8	2612.4	2608.4	2454.0
20°	2017.9	2026.5	2038.6	2069.7	2159.6	2278.9	2436.1	2482.2	2565.7	2579.6	2399.3
22.5°	1979.9	1986.2	1984.5	2001.2	2062.3	2182.1	2356.0	2410.8	2524.3	2560.0	2348.6
25°	1982.2	1988.0	1979.3	1975.3	2011.6	2096.8	2272.5	2342.2	2490.8	2546.7	2302.5
27.5°	2020.8	2024.8	2008.7	1992.6	1995.4	2043.8	2203.4	2280.6	2462.6	2552.5	2263.9
30°	2072.6	2080.1	2069.7	2050.2	2028.9	2031.2	2159.0	2235.1	2449.4	2572.6	2245.4
32.5°	2139.5	2146.4	2141.8	2126.2	2098.6	2068.0	2148.1	2218.4	2450.5	2613.5	2241.4
35°	2209.7	2223.6	2231.0	2229.9	2207.4	2154.4	2191.3	2249.5	2478.2	2682.1	2265.0
37.5°	2289.2	2300.7	2333.0	2353.7	2333.0	2271.4	2288.6	2329.0	2539.2	2781.2	2316.9
40°	2366.4	2383.7	2430.9	2495.5	2487.4	2433.2	2437.3	2463.8	2647.0	2928.6	2418.3
42.5°	2447.1	2467.8	2550.2	2645.8	2664.8	2622.8	2633.7	2657.3	2800.2	3133.1	2592.2
45°	2550.8	2575.5	2676.9	2796.1	2871.0	2845.1	2876.2	2887.7	3005.3	3399.3	2821.5
47.5°	2684.4	2713.2	2838.2	2986.8	3092.8	3116.4	3170.6	3163.7	3259.3	3714.4	3118.7
50°	2909.6	2925.8	3043.9	3195.4	3341.1	3447.7	3506.4	3517.4	3574.4	4020.8	3451.1
52.5°	3177.5	3191.9	3277.2	3409.6	3592.3	3818.1	3963.2	3927.5	3941.3	4394.1	3840.0
55°	3478.8	3503.0	3557.1	3645.2	3882.0	4214.4	4505.9	4514.5	4361.3	4751.3	4212.7
57.5°	3712.1	3753.0	3845.7	3971.3	4271.4	4655.1	5046.8	5052.5	4856.7	5132.6	4624.0
60°	3594.6	3642.9	3854.9	4160.8	4782.4	5424.1	5693.1	5660.3	5338.8	5567.0	5125.7
62.5°	3087.6	3096.3	3404.5	3882.6	4939.6	6452.9	6655.1	6516.3	5982.3	6117.7	5635.5
65°	1998.3	2054.8	2299.0	2969.0	4422.9	7023.8	8340.6	8019.8	6884.4	6742.7	6062.4
67.5°	1261.6	1247.1	1348.5	1695.3	3042.1	6520.9	9779.0	9728.3	8064.1	7137.3	5960.4
69°	1046.1	1062.2	1096.8	1299.6	2093.4	5567.5	9949.0	10299.2	8636.2	7106.2	5590.0
70°	948.8	956.2	992.5	1152.1	1615.2	4663.1	9670.2	10283.7	8860.8	6976.0	5321.6
72.5°	752.9	752.3	814.5	958.5	1207.4	2661.9	7940.3	8928.2	8609.7	6370.0	4397.0
75°	572.0	581.2	649.8	811.1	1112.4	1454.5	5541.0	6875.7	6876.3	5031.2	2743.7
77.5°	412.5	418.2	498.3	680.9	1047.8	1179.2	3690.8	4931.6	4636.1	2305.4	862.3
80°	270.2	273.6	334.7	539.2	944.7	1112.4	2188.4	3018.5	2186.7	611.8	285.1
82.5°	148.0	165.3	204.5	349.1	758.1	1027.7	1330.1	1527.7	820.3	272.5	148.6
85°	74.3	78.9	115.2	203.9	495.4	850.3	926.3	876.2	423.4	135.4	77.2
87.5°	21.9	27.7	47.8	78.9	201.0	443.0	515.6	462.6	163.0	49.0	16.1
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°	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3	2854.3
2.5°	2830.7	2820.3	2774.3	2732.8	2694.8	2654.4	2620.5	2590.5	2593.4	2594.0	2563.4
5°	2766.2	2742.6	2655.0	2573.2	2504.1	2416.5	2341.6	2293.3	2269.1	2236.8	2248.3
7.5°	2678.6	2633.1	2511.6	2375.6	2248.3	2134.8	2011.6	1926.9	1872.7	1820.3	1827.2
10°	2588.2	2515.0	2338.2	2158.5	1993.7	1812.3	1655.0	1520.2	1420.0	1382.5	1357.8
12.5°	2495.5	2399.3	2174.6	1935.5	1708.0	1490.8	1267.9	1123.3	1012.7	953.9	961.4
15°	2410.8	2293.8	2004.1	1712.6	1417.1	1158.4	936.1	798.4	721.2	705.1	714.3
17.5°	2332.4	2179.2	1844.5	1496.0	1150.9	868.7	703.4	625.6	594.5	585.8	585.3
20°	2251.8	2081.8	1665.4	1264.4	896.9	673.4	577.2	540.9	535.2	538.6	539.2
22.5°	2170.0	1961.5	1481.0	1034.6	714.3	550.7	504.6	494.8	499.4	507.5	508.7
25°	2094.5	1855.5	1303.6	833.0	570.3	483.9	461.4	461.4	471.8	483.9	484.5
27.5°	2032.3	1752.9	1126.8	661.3	477.5	435.5	428.0	432.0	446.4	455.7	456.2
30°	1981.0	1657.3	959.7	530.0	419.9	396.9	395.2	402.1	412.5	421.1	421.7
32.5°	1942.4	1573.2	803.6	445.3	380.2	367.5	366.9	372.1	377.9	380.2	382.5
35°	1927.5	1503.5	660.7	391.7	353.7	345.6	345.6	345.1	347.4	348.5	349.7
37.5°	1939.6	1449.9	550.1	357.2	334.1	328.3	324.9	321.4	320.3	320.3	320.9
40°	1990.8	1421.7	467.8	334.7	320.3	311.6	305.3	301.3	297.2	298.4	299.5
42.5°	2099.7	1426.9	411.9	319.7	308.2	296.1	286.9	282.3	279.4	282.8	282.3
45°	2273.1	1478.7	376.2	309.3	296.1	280.5	271.9	267.3	267.3	272.5	274.2
47.5°	2515.6	1577.8	357.2	301.3	286.9	268.4	259.8	256.3	257.5	266.1	266.7
50°	2811.7	1750.0	353.7	297.2	282.3	259.8	250.0	246.5	249.4	258.6	259.8
52.5°	3138.3	1971.8	370.4	297.8	278.2	254.6	241.9	236.8	239.6	247.1	249.4
55°	3525.4	2249.5	413.6	300.1	272.5	251.7	236.2	224.7	228.1	233.3	233.9
57.5°	3920.6	2599.7	489.6	300.7	267.9	246.5	226.4	211.4	211.4	214.9	216.6
60°	4403.3	2981.1	589.9	301.3	268.4	239.1	213.1	196.4	194.1	195.9	196.4
62.5°	4882.6	3300.2	606.6	299.5	274.2	231.6	198.7	181.5	177.4	176.8	175.7
65°	5094.0	3240.9	497.1	291.5	280.5	227.0	187.2	167.1	160.1	157.8	157.8
67.5°	4749.5	2741.4	373.9	280.5	276.5	222.4	176.3	155.0	146.9	142.3	142.3
69°	4425.8	2438.4	335.8	273.0	266.1	214.9	169.4	148.6	138.8	133.6	131.9
70°	4175.8	2229.9	319.7	266.7	256.3	206.2	164.2	144.0	133.1	127.3	126.2
72.5°	3332.5	1749.5	280.0	242.5	218.3	173.4	145.7	129.6	119.2	112.9	111.2
75°	1920.6	948.2	232.1	210.8	175.7	134.8	123.3	112.9	104.8	99.1	97.4
77.5°	591.0	366.4	168.2	166.5	129.0	104.3	98.5	94.5	88.7	82.4	81.2
80°	248.9	186.6	114.1	112.3	85.8	72.6	70.9	70.3	68.0	62.8	61.1
82.5°	136.5	105.4	79.5	69.1	51.8	42.1	43.8	44.4	42.6	37.4	34.0
85°	66.8	57.6	38.6	31.1	23.6	15.0	14.4	17.3	16.1	11.5	12.7
87.5°	13.2	16.1	10.4	4.6	2.3	0.0	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)