

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: P451415

Luminaire Tested: **GALN-SA2B-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11422 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 82
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

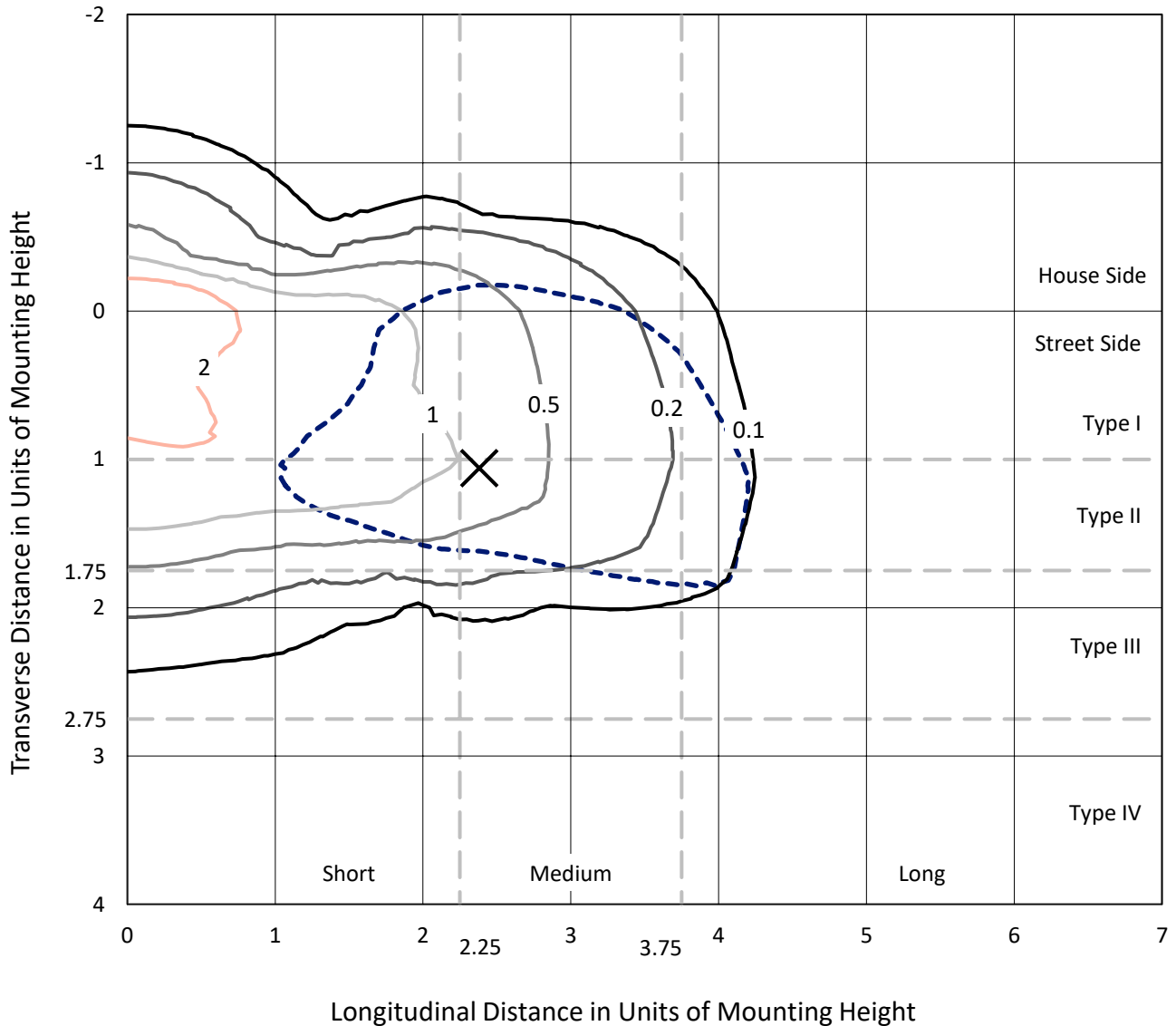




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Iso-Footcandle Lines of Horizontal Illumination

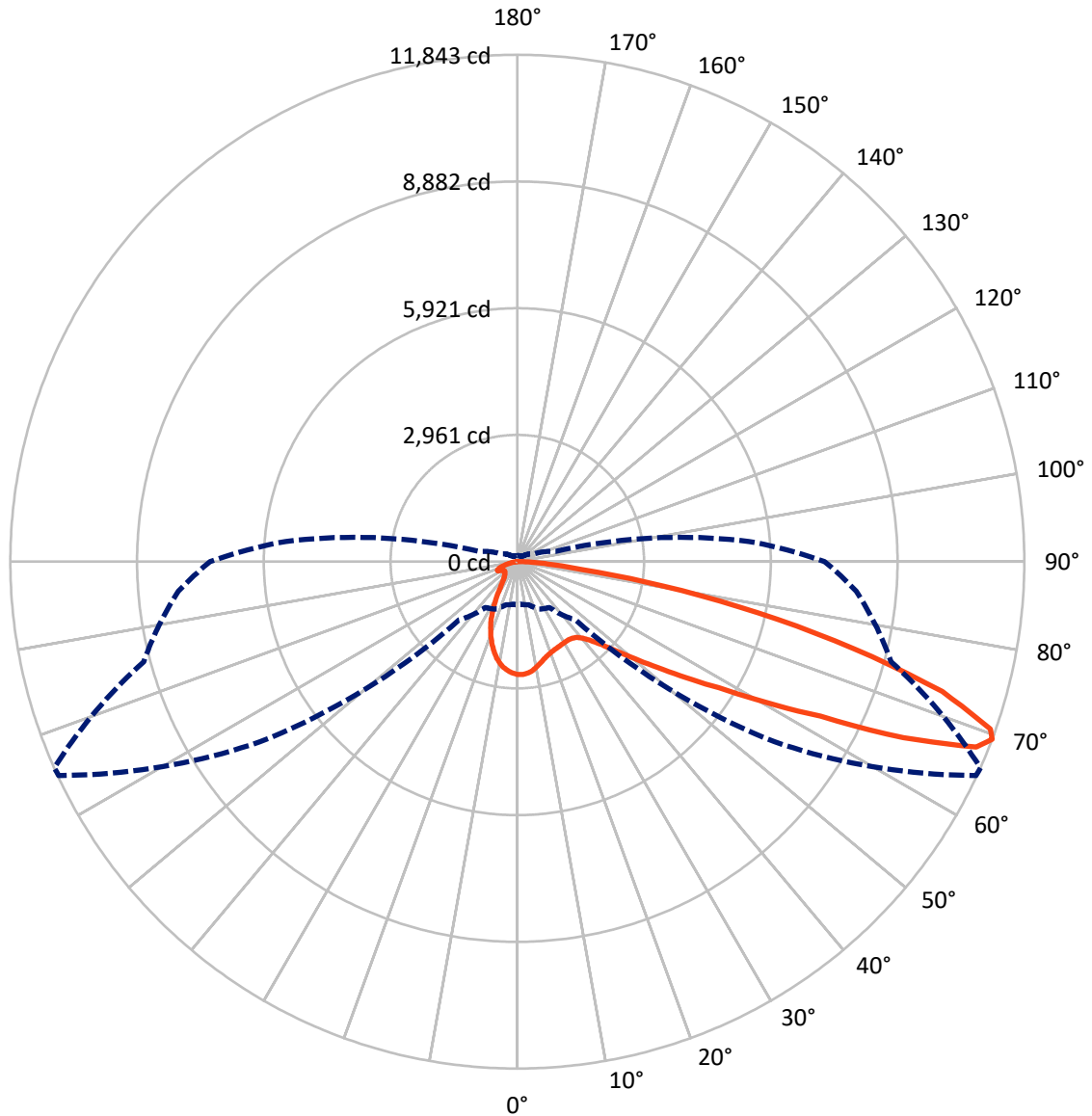
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2148.1	0.0	2148.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9274.0	0.0	9274.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	11422.0	0.0	11422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	2.0
10°-20°	543.3	4.8
20°-30°	739.6	6.5
30°-40°	993.9	8.7
40°-50°	1484.0	13.0
50°-60°	2360.6	20.7
60°-70°	2903.4	25.4
70°-80°	1889.1	16.5
80°-90°	279.0	2.4
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°	11422.0	100.0
0°-180°	11422.0	100.0

Coefficient of Utilization



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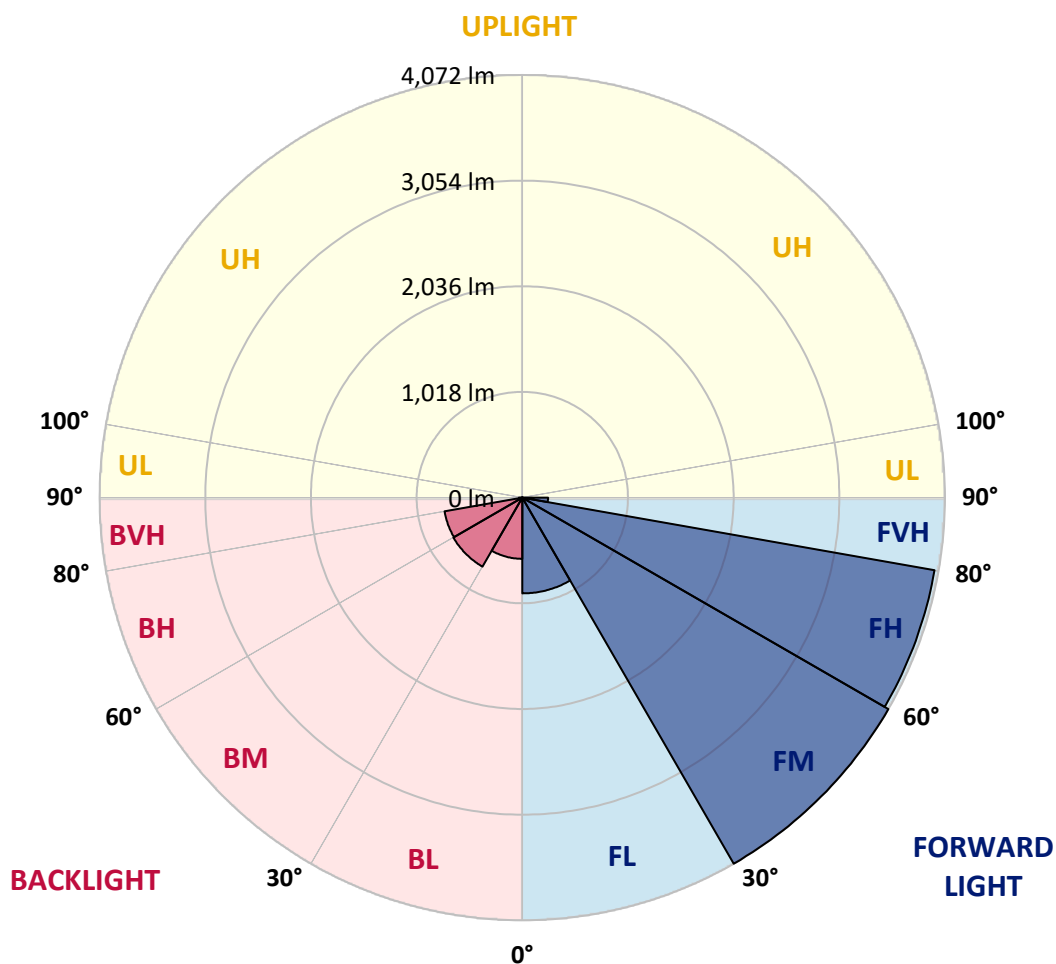
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	922.3	8.1			
FM	(30°-60°)	4071.6	35.6			
FH	(60°-80°)	4032.0	35.3			G2/5000
FVH	(80°-90°)	248.0	2.2			G3/500
BL	(0°-30°)	589.6	5.2	B2/1000		
BM	(30°-60°)	766.9	6.7	B1/1000		
BH	(60°-80°)	760.5	6.7	B2/1000		G2/1000
BVH	(80°-90°)	31.0	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7
2.5°	2545.3	2555.4	2566.8	2579.5	2603.5	2616.8	2626.3	2637.0	2638.3	2644.0	2639.6
5°	2357.4	2369.5	2386.5	2410.6	2446.6	2502.9	2561.1	2608.6	2614.3	2640.8	2648.4
7.5°	2200.6	2207.5	2221.5	2260.0	2311.3	2373.9	2458.7	2554.8	2568.7	2632.0	2654.1
10°	2072.8	2079.8	2096.2	2136.1	2186.7	2265.1	2358.1	2484.6	2496.0	2604.8	2655.4
12.5°	1977.3	1983.6	2001.3	2040.5	2098.7	2172.1	2274.6	2408.7	2425.1	2568.7	2643.3
15°	1904.6	1916.6	1931.1	1963.4	2024.7	2095.6	2194.9	2339.1	2352.4	2530.8	2635.1
17.5°	1873.6	1879.3	1889.4	1919.1	1964.0	2033.6	2133.5	2284.7	2300.5	2504.2	2633.2
20°	1874.8	1880.5	1882.4	1898.9	1931.1	1991.2	2089.9	2241.7	2260.7	2480.8	2636.4
22.5°	1917.8	1918.5	1911.5	1905.8	1918.5	1968.4	2058.9	2209.4	2231.6	2470.7	2638.9
25°	1984.3	1995.6	1985.5	1959.0	1935.5	1959.6	2046.9	2191.7	2212.6	2456.1	2635.8
27.5°	2091.8	2093.7	2085.5	2049.4	1988.7	1971.0	2041.8	2178.4	2196.2	2445.4	2619.9
30°	2236.0	2230.3	2222.7	2182.9	2087.4	2014.6	2052.6	2166.4	2184.8	2429.6	2601.0
32.5°	2382.1	2399.8	2392.9	2346.1	2222.1	2099.4	2087.4	2165.2	2180.3	2417.5	2580.1
35°	2537.1	2545.3	2578.2	2554.2	2427.0	2236.6	2152.5	2184.8	2196.8	2418.2	2565.5
37.5°	2658.5	2680.7	2757.8	2778.7	2659.2	2418.2	2258.1	2240.4	2245.5	2449.2	2571.2
40°	2805.3	2843.2	2942.5	3027.9	2949.5	2654.1	2437.8	2343.5	2349.9	2523.8	2608.6
42.5°	2991.2	3017.8	3151.3	3267.0	3254.4	2965.9	2655.4	2512.4	2515.6	2672.4	2712.9
45°	3208.8	3246.8	3396.7	3570.6	3600.4	3318.9	2969.7	2768.0	2766.1	2903.3	2907.7
47.5°	3487.1	3510.6	3659.2	3849.0	3969.1	3762.3	3351.2	3134.8	3114.6	3239.8	3203.8
50°	3743.3	3780.0	3892.6	4100.1	4399.3	4281.6	3852.8	3610.5	3563.1	3680.1	3619.3
52.5°	3850.9	3889.4	3984.3	4241.8	4768.0	4953.4	4489.7	4177.9	4098.8	4188.6	4166.5
55°	3664.3	3714.2	3802.8	4115.9	4930.0	5728.2	5348.7	4833.8	4776.2	4737.7	4744.0
57.5°	3162.7	3210.1	3329.6	3675.0	4736.4	6290.5	6575.2	5677.0	5553.6	5375.9	5406.2
60°	2407.4	2437.1	2499.1	2881.8	4162.7	6436.6	7968.0	6742.8	6664.4	6011.6	6033.1
62.5°	1709.7	1743.3	1786.3	1977.3	3047.5	6024.9	9058.5	8231.1	7950.9	6670.0	6649.2
65°	1388.4	1365.6	1417.5	1506.7	1788.2	4669.3	9303.9	10297.0	9911.1	7537.2	7247.5
67.5°	1141.7	1117.7	1168.9	1327.7	1359.9	2710.4	8419.6	11638.0	11560.8	8480.4	7855.4
69°	1010.8	998.1	1043.0	1223.9	1305.5	1924.8	7334.8	11824.5	11842.9	9036.3	7949.0
70°	910.8	915.9	959.6	1171.4	1280.9	1587.0	6269.0	11567.1	11722.7	9314.0	7847.8
72.5°	670.5	681.2	742.0	970.3	1257.5	1346.7	3730.7	10103.4	10378.6	9330.5	7179.2
75°	468.7	463.6	517.4	730.6	1187.9	1334.6	2191.1	7813.7	8125.5	8064.8	6032.5
77.5°	306.8	315.0	358.0	516.1	999.4	1324.5	1428.3	5543.5	5745.9	5393.6	3568.1
80°	216.3	215.7	239.7	352.3	741.3	1272.7	1169.6	3494.1	3442.9	2119.6	1058.2
82.5°	124.0	132.8	160.7	248.0	495.9	1120.2	1075.9	1671.1	1525.7	604.1	357.4
85°	68.9	72.1	95.5	149.9	289.7	843.8	939.3	760.3	717.3	252.4	153.7
87.5°	22.1	24.0	39.8	75.9	131.6	398.5	532.0	351.1	323.9	91.1	62.0
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°	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7
2.5°	2641.5	2649.0	2628.8	2609.2	2591.5	2566.8	2544.7	2526.3	2513.7	2511.8	2505.5
5°	2650.3	2650.9	2612.4	2560.5	2509.9	2454.2	2396.7	2355.5	2317.0	2295.5	2284.7
7.5°	2656.6	2650.9	2581.4	2497.2	2399.8	2298.6	2197.4	2116.5	2053.8	2029.2	2038.6
10°	2654.1	2636.4	2534.6	2399.8	2258.1	2107.0	1961.5	1847.6	1743.3	1689.5	1690.8
12.5°	2640.2	2611.1	2465.0	2290.4	2082.3	1879.9	1657.2	1503.5	1382.7	1311.2	1289.1
15°	2628.2	2577.6	2383.4	2141.8	1883.0	1594.0	1322.6	1132.9	1031.7	975.4	974.7
17.5°	2615.5	2545.3	2294.2	1984.3	1654.1	1282.1	997.5	852.7	805.2	810.9	801.4
20°	2602.2	2507.4	2201.2	1809.0	1375.1	956.4	747.0	688.2	701.5	727.4	731.2
22.5°	2587.1	2466.9	2101.3	1616.1	1081.6	719.8	606.0	597.1	631.3	671.7	677.4
25°	2563.7	2416.3	1975.4	1414.3	834.3	580.0	530.7	537.0	570.5	604.7	608.5
27.5°	2530.8	2353.7	1848.3	1162.6	626.8	497.8	485.2	493.4	509.8	530.7	535.8
30°	2486.5	2282.8	1702.1	945.0	502.2	456.7	451.6	456.1	465.5	474.4	476.9
32.5°	2442.2	2214.5	1554.8	723.6	447.8	429.5	424.4	424.4	424.4	425.7	426.3
35°	2401.1	2150.0	1396.6	563.6	419.4	408.0	401.0	393.4	392.2	387.7	387.7
37.5°	2378.3	2091.1	1228.4	471.9	398.5	390.3	380.8	368.1	361.2	361.8	360.5
40°	2382.7	2052.6	1075.3	420.0	381.4	372.6	358.0	343.5	339.0	339.0	337.8
42.5°	2432.7	2039.9	928.6	392.8	365.0	354.9	336.5	323.2	320.7	320.1	321.3
45°	2547.8	2070.9	797.0	375.1	351.1	335.9	317.5	305.5	303.0	303.0	302.4
47.5°	2772.4	2171.5	702.7	363.7	340.9	321.3	302.4	290.3	285.9	284.6	284.6
50°	3121.5	2389.7	632.5	353.6	328.3	308.0	288.4	274.5	267.6	266.9	266.3
52.5°	3606.7	2730.0	605.3	346.0	314.4	294.1	272.6	259.3	250.5	248.6	247.3
55°	4174.1	3205.0	642.7	340.3	299.8	278.3	256.2	242.3	234.0	230.2	229.6
57.5°	4831.3	3775.6	784.3	332.7	286.5	261.2	239.7	225.8	217.0	212.5	211.3
60°	5421.4	4361.9	1031.7	328.3	275.2	242.9	220.8	208.1	199.9	195.5	194.8
62.5°	6069.8	4921.1	1327.1	340.3	270.1	225.2	203.0	191.7	184.7	180.3	180.3
65°	6762.4	5480.9	1522.5	380.8	277.7	211.3	184.1	174.6	168.3	165.1	164.5
67.5°	7229.2	5674.4	1254.3	422.5	296.7	196.1	165.7	158.1	154.3	151.2	151.2
69°	7178.6	5429.7	925.4	433.3	302.4	188.5	155.6	149.9	144.8	143.6	142.3
70°	7018.6	5150.7	775.5	426.3	297.9	181.5	149.3	142.3	137.9	136.6	136.0
72.5°	6251.3	4466.9	577.5	370.7	253.6	157.5	132.2	125.9	122.1	120.2	120.2
75°	5193.7	3651.0	451.0	294.8	198.6	132.8	113.2	108.2	105.0	103.7	103.1
77.5°	2910.9	2038.6	323.9	230.9	150.5	107.5	94.9	90.5	87.3	86.0	86.0
80°	810.9	582.6	190.4	152.4	102.5	81.6	75.3	72.1	67.7	64.5	66.4
82.5°	305.5	252.4	108.8	91.7	65.2	54.4	52.5	50.0	48.1	43.6	43.6
85°	148.6	122.7	69.6	48.7	36.1	28.5	27.2	25.9	24.7	21.5	22.1
87.5°	51.2	54.4	30.4	17.7	10.8	7.0	5.7	3.2	3.2	3.2	3.2
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)