

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: P452200

Luminaire Tested: **GALN-SA3A-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452200
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-SA3A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 9947 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

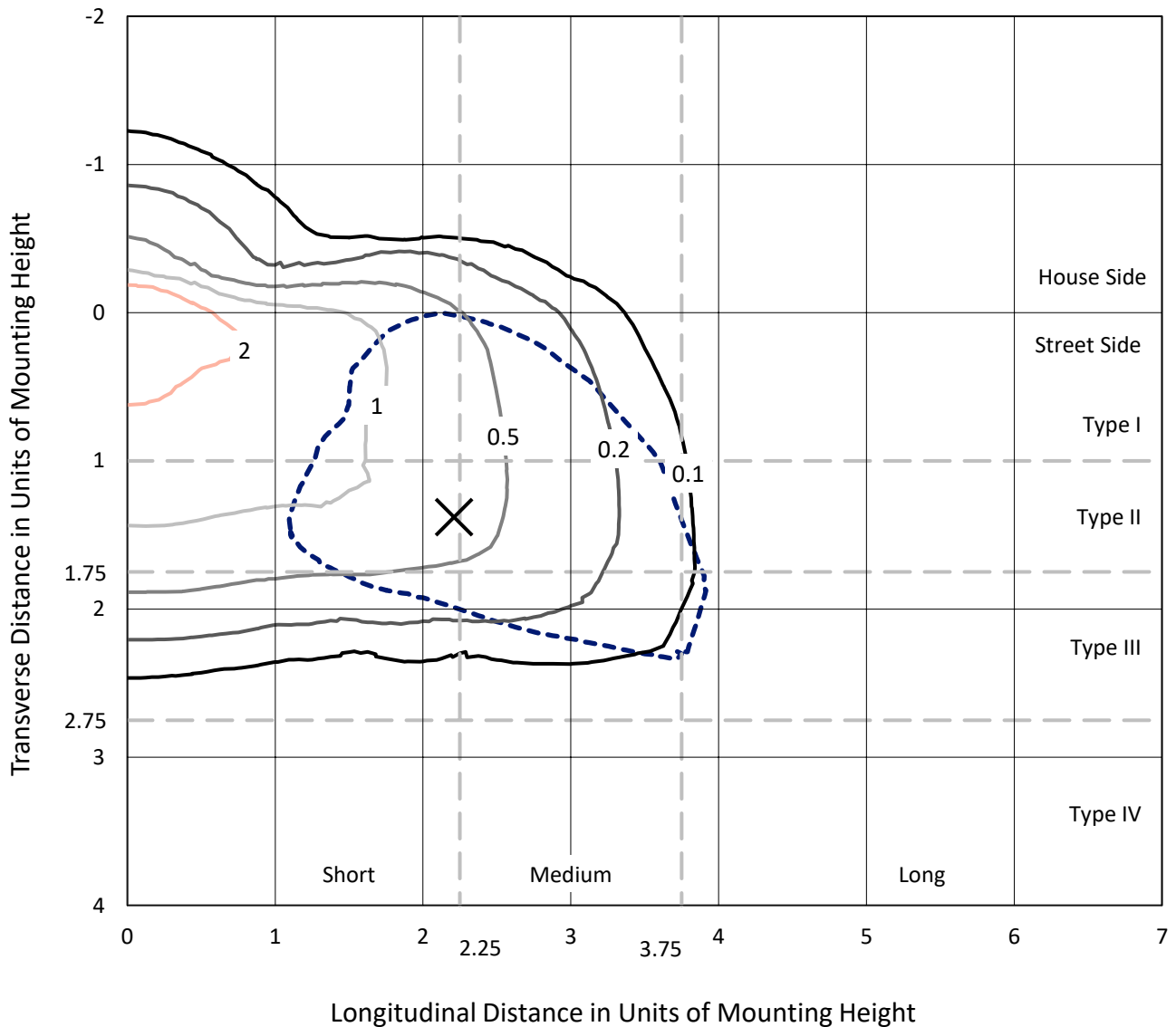
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

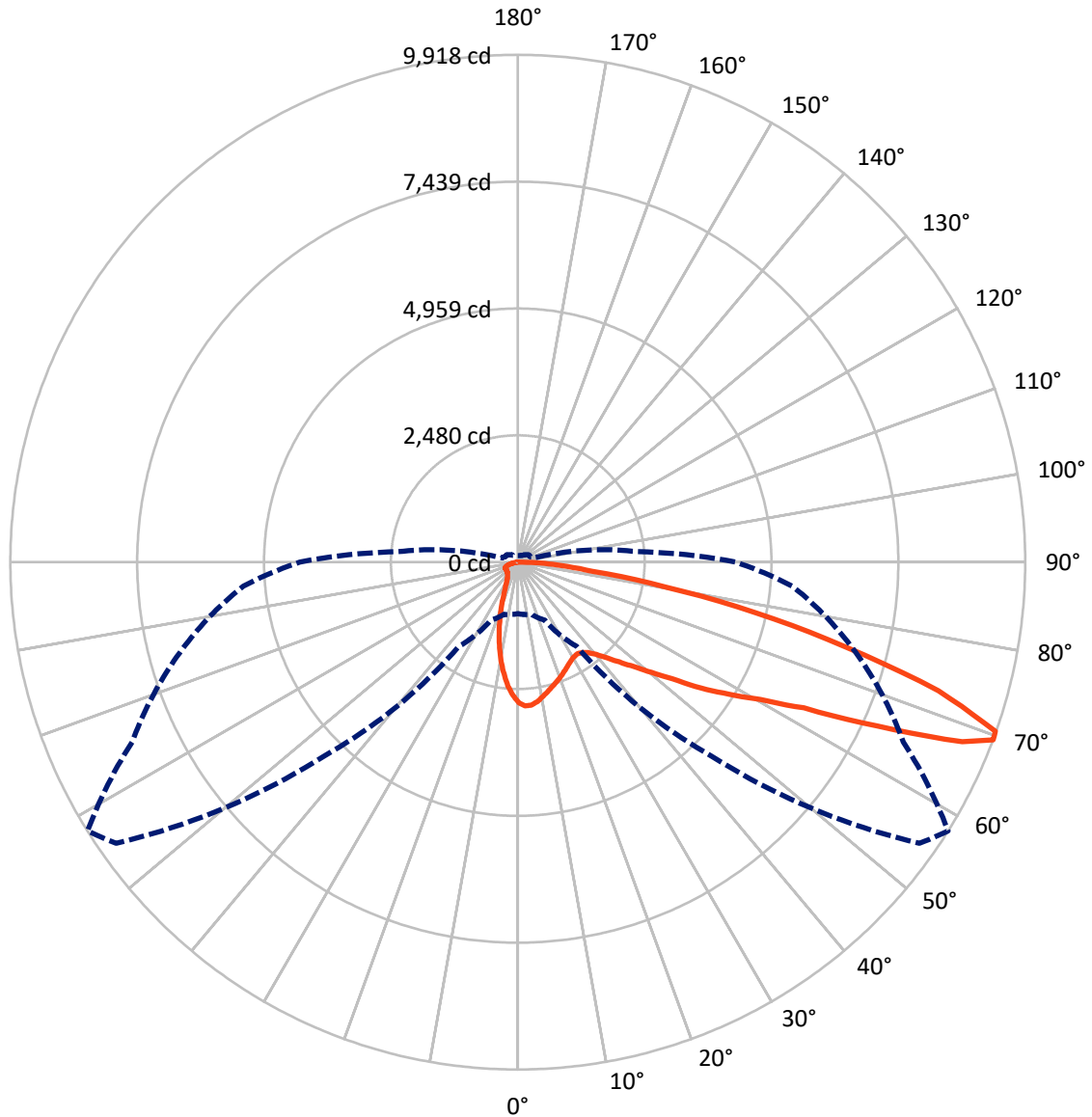
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1457.7	0.0	1457.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8489.3	0.0	8489.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	9947.0	0.0	9947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	2.3
10°-20°	512.6	5.2
20°-30°	662.3	6.7
30°-40°	860.2	8.6
40°-50°	1250.6	12.6
50°-60°	1995.5	20.1
60°-70°	2665.7	26.8
70°-80°	1536.7	15.4
80°-90°	230.2	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°	9947.0	100.0
0°-180°	9947.0	100.0

Coefficient of Utilization



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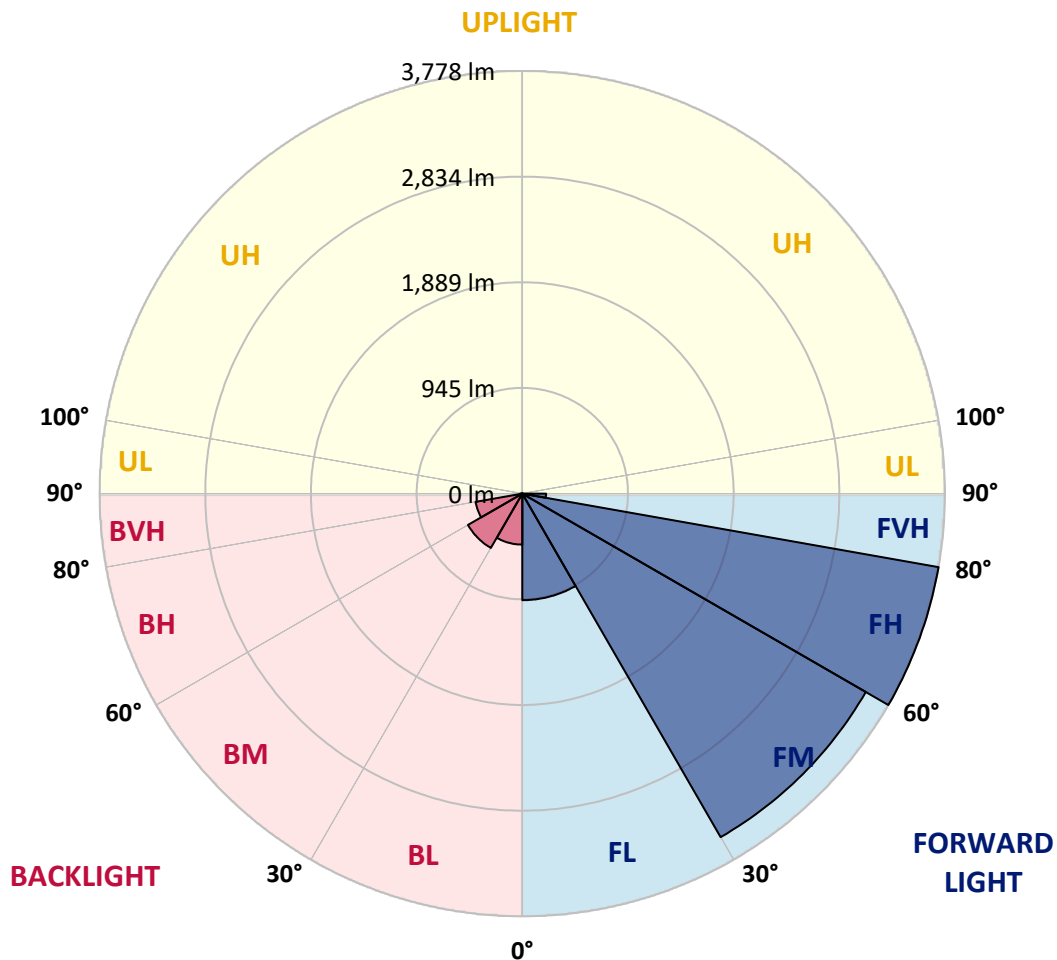
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	952.7	9.6			
FM	(30°-60°)	3545.6	35.6			
FH	(60°-80°)	3778.5	38.0			G2/5000
FVH	(80°-90°)	212.5	2.1			G2/225
BL	(0°-30°)	455.6	4.6	B1/500		
BM	(30°-60°)	560.6	5.6	B1/1000		
BH	(60°-80°)	423.9	4.3	B1/500		G1/500
BVH	(80°-90°)	17.6	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°	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8
2.5°	2850.8	2858.6	2856.4	2853.6	2849.2	2837.0	2817.0	2813.7	2800.9	2773.7	2739.9
5°	2807.0	2813.7	2814.2	2818.1	2823.7	2821.4	2807.0	2805.4	2786.5	2749.9	2693.3
7.5°	2656.7	2665.6	2685.0	2706.6	2726.0	2744.3	2748.8	2751.5	2739.9	2697.7	2622.3
10°	2487.5	2496.4	2505.2	2537.4	2585.1	2630.6	2668.3	2673.3	2676.1	2637.3	2545.2
12.5°	2300.0	2318.3	2337.1	2384.9	2448.7	2520.2	2586.8	2597.3	2616.2	2586.8	2478.6
15°	2140.8	2159.6	2186.8	2229.5	2306.6	2409.8	2503.6	2520.8	2557.9	2543.0	2416.5
17.5°	2030.4	2037.0	2055.9	2104.7	2187.9	2296.7	2422.0	2456.4	2515.8	2511.9	2363.2
20°	1943.3	1951.6	1963.2	1993.2	2079.7	2194.6	2346.0	2390.4	2470.8	2484.2	2310.5
22.5°	1906.7	1912.8	1911.1	1927.2	1986.0	2101.4	2268.9	2321.6	2430.9	2465.3	2261.7
25°	1908.9	1914.4	1906.1	1902.2	1937.2	2019.3	2188.5	2255.6	2398.7	2452.5	2217.3
27.5°	1946.1	1949.9	1934.4	1918.9	1921.6	1968.2	2121.9	2196.2	2371.5	2458.1	2180.2
30°	1996.0	2003.2	1993.2	1974.3	1953.8	1956.0	2079.2	2152.4	2358.8	2477.5	2162.4
32.5°	2060.3	2067.0	2062.5	2047.6	2020.9	1991.5	2068.6	2136.3	2359.9	2516.9	2158.5
35°	2128.0	2141.3	2148.5	2147.4	2125.8	2074.8	2110.3	2166.3	2386.5	2582.9	2181.3
37.5°	2204.6	2215.7	2246.7	2266.7	2246.7	2187.4	2204.0	2242.8	2445.3	2678.3	2231.2
40°	2278.9	2295.5	2341.0	2403.2	2395.4	2343.2	2347.1	2372.7	2549.1	2820.3	2328.8
42.5°	2356.6	2376.5	2455.9	2548.0	2566.3	2525.8	2536.3	2559.0	2696.6	3017.3	2496.4
45°	2456.4	2480.3	2577.9	2692.7	2764.9	2739.9	2769.8	2780.9	2894.1	3273.6	2717.1
47.5°	2585.1	2612.9	2733.2	2876.4	2978.4	3001.2	3053.3	3046.7	3138.8	3577.0	3003.4
50°	2802.0	2817.6	2931.3	3077.2	3217.5	3320.2	3376.7	3387.3	3442.2	3872.1	3323.5
52.5°	3060.0	3073.8	3156.0	3283.5	3459.4	3676.9	3816.7	3782.3	3795.6	4231.6	3697.9
55°	3350.1	3373.4	3425.6	3510.4	3738.4	4058.5	4339.2	4347.5	4200.0	4575.5	4056.9
57.5°	3574.8	3614.2	3703.5	3824.4	4113.4	4482.9	4860.1	4865.7	4677.1	4942.8	4452.9
60°	3461.6	3508.2	3712.4	4006.9	4605.5	5223.5	5482.6	5450.9	5141.4	5361.1	4936.1
62.5°	2973.4	2981.8	3278.6	3739.0	4757.0	6214.3	6409.0	6275.3	5761.0	5891.4	5427.1
65°	1924.4	1978.8	2214.0	2859.2	4259.3	6764.0	8032.2	7723.2	6629.8	6493.3	5838.2
67.5°	1214.9	1201.0	1298.7	1632.6	2929.6	6279.7	9417.4	9368.6	7765.9	6873.3	5740.0
69°	1007.4	1023.0	1056.2	1251.5	2015.9	5361.6	9581.0	9918.3	8316.8	6843.4	5383.3
70°	913.7	920.9	955.8	1109.5	1555.5	4490.7	9312.5	9903.3	8533.1	6718.0	5124.7
72.5°	725.1	724.5	784.4	923.1	1162.7	2563.5	7646.6	8598.0	8291.2	6134.4	4234.4
75°	550.9	559.7	625.8	781.1	1071.2	1400.7	5336.1	6621.5	6622.0	4845.2	2642.3
77.5°	397.2	402.7	479.9	655.7	1009.1	1135.6	3554.3	4749.2	4464.6	2220.1	830.5
80°	260.2	263.5	322.3	519.2	909.8	1071.2	2107.5	2906.9	2105.8	589.1	274.6
82.5°	142.6	159.2	196.9	336.2	730.0	989.7	1280.9	1471.2	790.0	262.4	143.1
85°	71.6	76.0	110.9	196.4	477.1	818.8	892.0	843.8	407.7	130.4	74.3
87.5°	21.1	26.6	46.0	76.0	193.6	426.6	496.5	445.5	157.0	47.2	15.5
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°	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8	2748.8
2.5°	2726.0	2716.0	2671.7	2631.7	2595.1	2556.3	2523.5	2494.7	2497.5	2498.0	2468.6
5°	2663.9	2641.1	2556.8	2478.1	2411.5	2327.2	2255.0	2208.4	2185.1	2154.1	2165.2
7.5°	2579.6	2535.7	2418.7	2287.8	2165.2	2055.9	1937.2	1855.6	1803.5	1753.0	1759.7
10°	2492.5	2422.0	2251.7	2078.6	1920.0	1745.2	1593.8	1464.0	1367.4	1331.4	1307.5
12.5°	2403.2	2310.5	2094.2	1863.9	1644.8	1435.7	1221.0	1081.8	975.2	918.7	925.9
15°	2321.6	2209.0	1930.0	1649.3	1364.7	1115.6	901.5	768.9	694.5	679.0	687.9
17.5°	2246.2	2098.6	1776.3	1440.7	1108.4	836.6	677.3	602.5	572.5	564.2	563.6
20°	2168.5	2004.9	1603.8	1217.7	863.7	648.5	555.9	520.9	515.4	518.7	519.2
22.5°	2089.7	1888.9	1426.3	996.3	687.9	530.3	486.0	476.5	481.0	488.7	489.8
25°	2017.1	1786.8	1255.4	802.2	549.2	466.0	444.4	444.4	454.3	466.0	466.5
27.5°	1957.1	1688.1	1085.1	636.8	459.9	419.4	412.2	416.1	429.9	438.8	439.4
30°	1907.8	1596.0	924.2	510.4	404.4	382.2	380.6	387.2	397.2	405.5	406.1
32.5°	1870.6	1515.0	773.9	428.8	366.1	353.9	353.4	358.4	363.9	366.1	368.4
35°	1856.2	1447.9	636.3	377.2	340.6	332.8	332.8	332.3	334.5	335.6	336.7
37.5°	1867.8	1396.3	529.8	343.9	321.8	316.2	312.9	309.5	308.4	308.4	309.0
40°	1917.2	1369.1	450.5	322.3	308.4	300.1	294.0	290.1	286.2	287.4	288.5
42.5°	2022.1	1374.1	396.6	307.9	296.8	285.1	276.3	271.8	269.1	272.4	271.8
45°	2189.0	1424.0	362.2	297.9	285.1	270.2	261.8	257.4	257.4	262.4	264.1
47.5°	2422.6	1519.5	343.9	290.1	276.3	258.5	250.2	246.9	248.0	256.3	256.8
50°	2707.7	1685.3	340.6	286.2	271.8	250.2	240.8	237.4	240.2	249.1	250.2
52.5°	3022.3	1898.9	356.7	286.8	267.9	245.2	233.0	228.0	230.8	238.0	240.2
55°	3395.0	2166.3	398.3	289.0	262.4	242.4	227.4	216.4	219.7	224.7	225.2
57.5°	3775.6	2503.6	471.5	289.6	258.0	237.4	218.0	203.6	203.6	206.9	208.6
60°	4240.5	2870.8	568.1	290.1	258.5	230.2	205.3	189.2	186.9	188.6	189.2
62.5°	4702.0	3178.1	584.1	288.5	264.1	223.0	191.4	174.7	170.9	170.3	169.2
65°	4905.6	3121.0	478.7	280.7	270.2	218.6	180.3	160.9	154.2	152.0	152.0
67.5°	4573.9	2640.0	360.0	270.2	266.3	214.1	169.8	149.2	141.5	137.0	137.0
69°	4262.1	2348.2	323.4	262.9	256.3	206.9	163.1	143.1	133.7	128.7	127.0
70°	4021.4	2147.4	307.9	256.8	246.9	198.6	158.1	138.7	128.1	122.6	121.5
72.5°	3209.2	1684.8	269.6	233.5	210.2	167.0	140.4	124.8	114.8	108.7	107.1
75°	1849.5	913.1	223.6	203.0	169.2	129.8	118.7	108.7	101.0	95.4	93.8
77.5°	569.2	352.8	162.0	160.3	124.3	100.4	94.9	91.0	85.4	79.3	78.2
80°	239.7	179.7	109.8	108.2	82.7	69.9	68.2	67.7	65.5	60.5	58.8
82.5°	131.5	101.5	76.6	66.6	49.9	40.5	42.2	42.7	41.1	36.1	32.7
85°	64.4	55.5	37.2	30.0	22.7	14.4	13.9	16.6	15.5	11.1	12.2
87.5°	12.8	15.5	10.0	4.4	2.2	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)