

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: P652223

Luminaire Tested: **GALN-SA2B-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5628 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

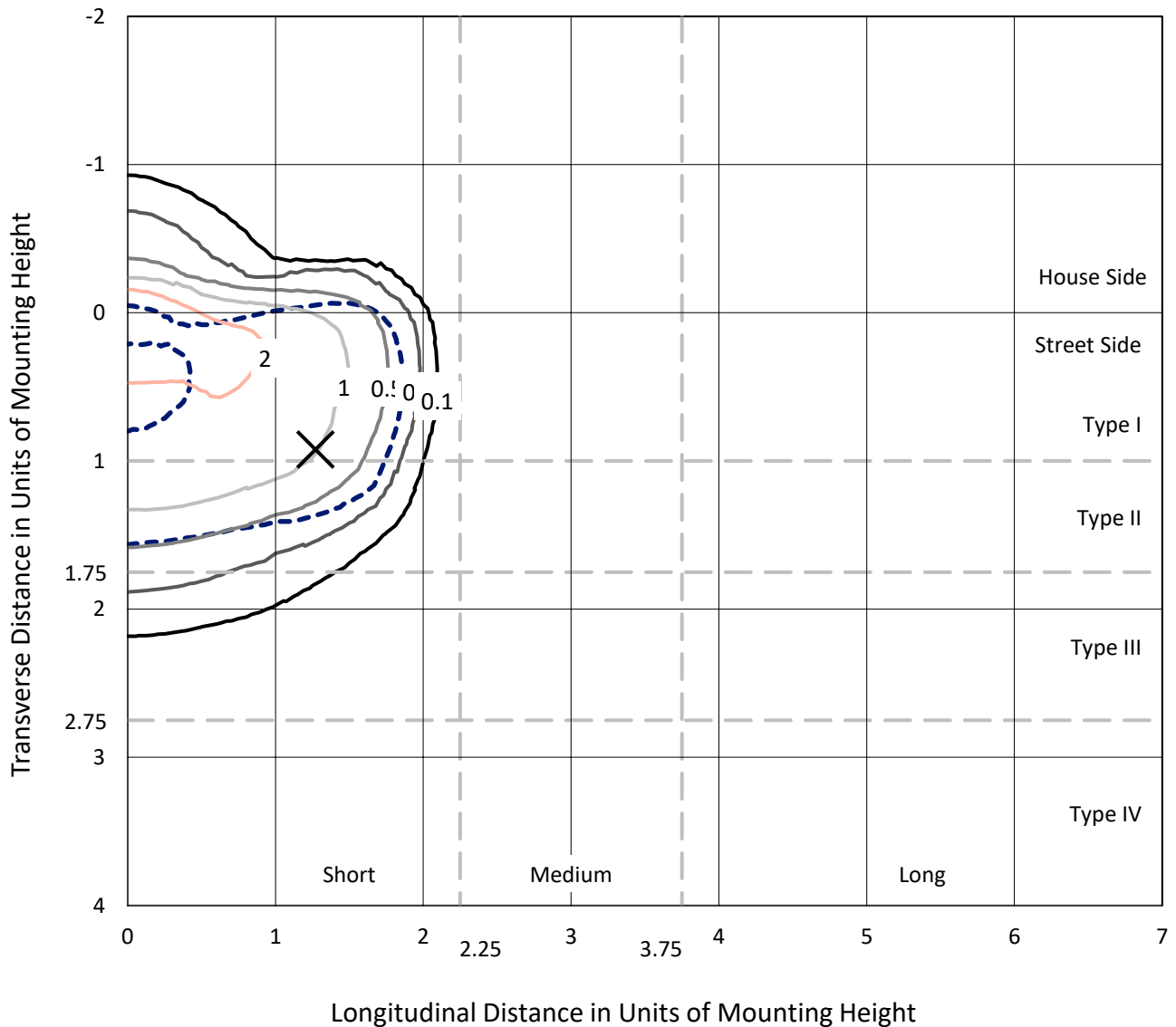
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

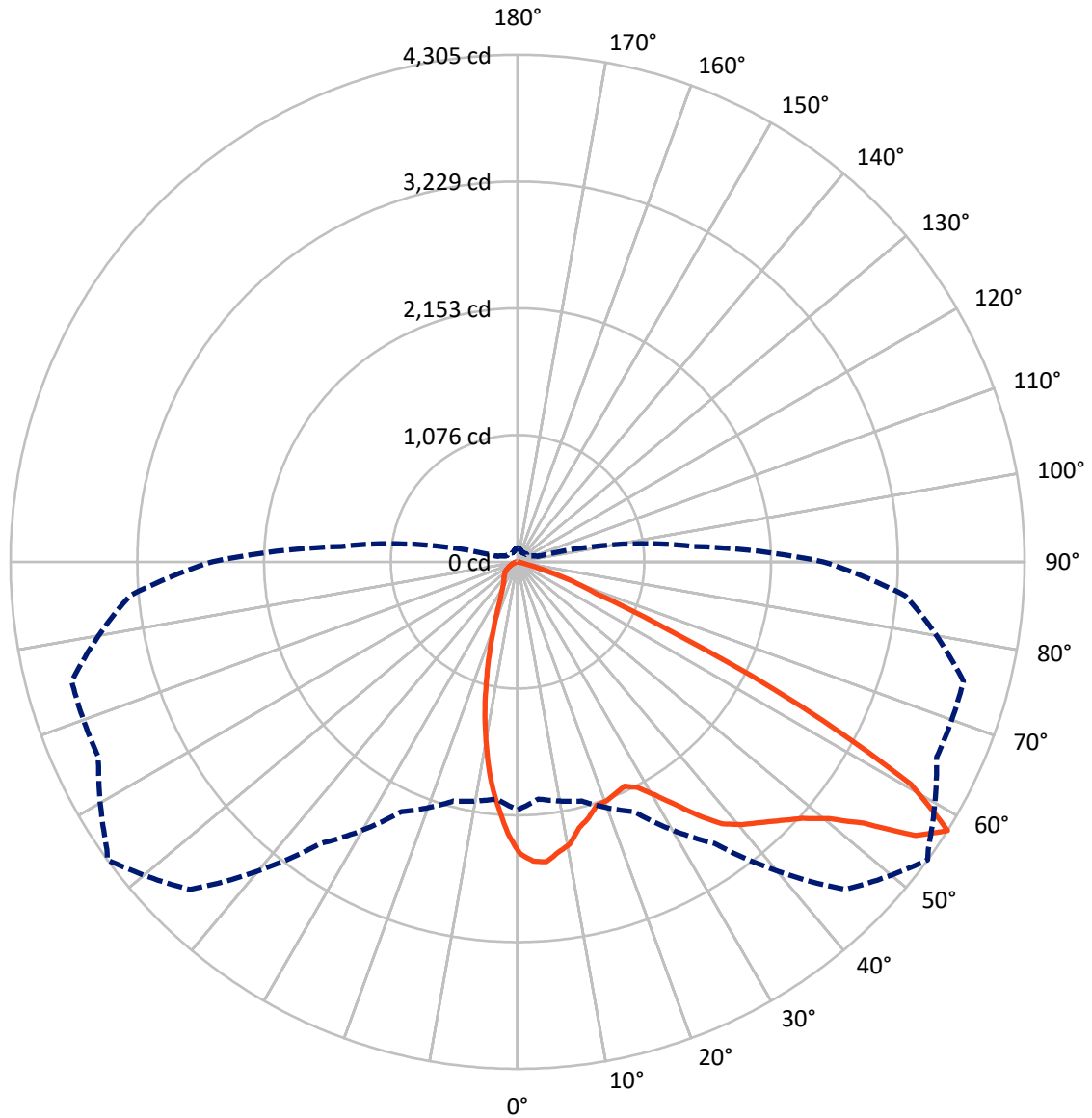
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	795.3	0.0	795.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	4832.6	0.0	4832.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	5628.0	0.0	5628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	3.7
10°-20°	442.9	7.9
20°-30°	587.0	10.4
30°-40°	853.0	15.2
40°-50°	1264.9	22.5
50°-60°	1581.8	28.1
60°-70°	623.9	11.1
70°-80°	62.1	1.1
80°-90°	4.8	0.1
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°	5628.0	100.0
0°-180°	5628.0	100.0

Coefficient of Utilization

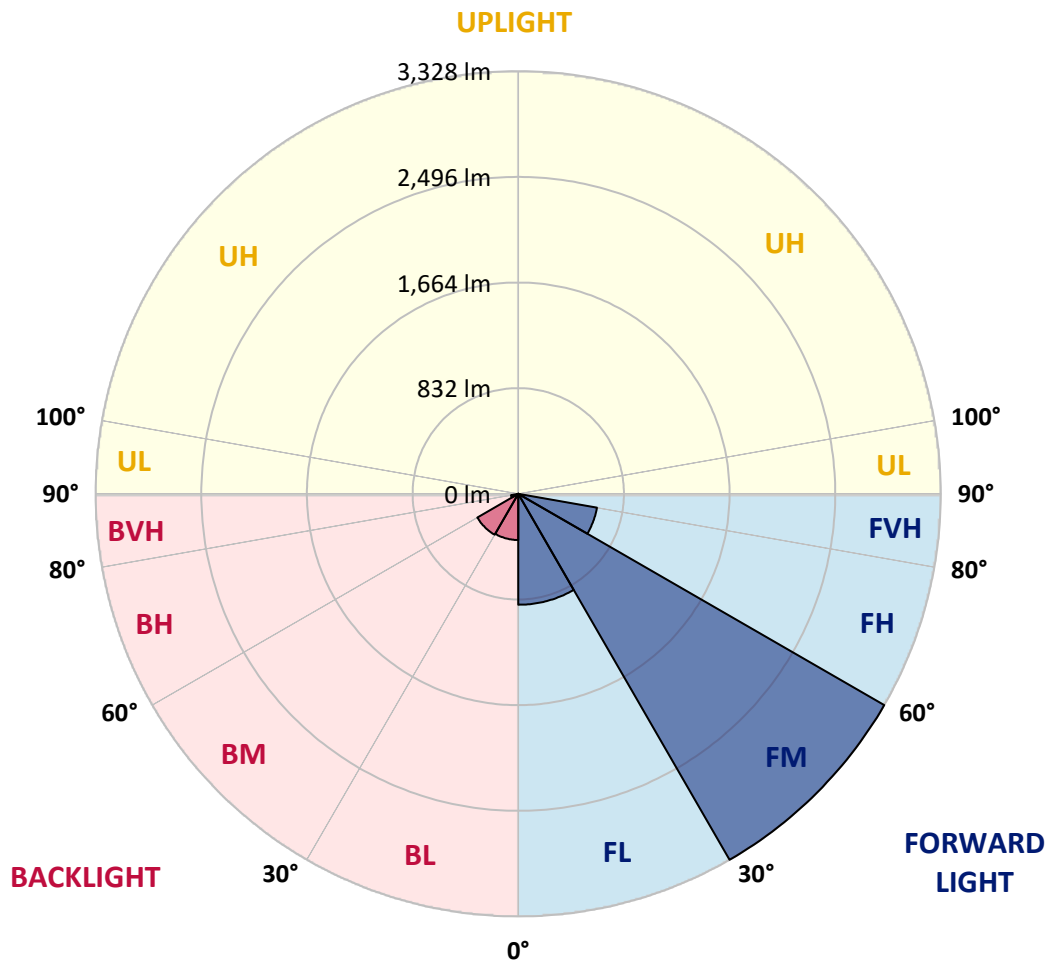


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.6	15.5			
FM (30°-60°)	3327.8	59.1			
FH (60°-80°)	629.0	11.2			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	363.7	6.5	B1/500		
BM (30°-60°)	371.9	6.6	B1/1000		
BH (60°-80°)	57.0	1.0	B0/110		G0/110
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2
2.5°	2623.6	2596.4	2598.5	2589.1	2576.5	2585.9	2545.1	2554.5	2553.5	2498.0	2461.4
5°	2557.6	2587.0	2556.6	2581.8	2557.6	2583.9	2558.7	2539.9	2509.5	2468.8	2400.7
7.5°	2445.7	2417.5	2425.9	2457.2	2462.4	2521.1	2489.7	2513.7	2501.1	2420.6	2327.5
10°	2220.7	2214.4	2256.3	2298.1	2349.4	2412.2	2436.3	2422.7	2413.2	2382.9	2258.4
12.5°	2048.0	2065.8	2064.7	2133.9	2220.7	2256.3	2319.1	2317.0	2369.3	2312.8	2193.5
15°	1883.8	1893.2	1937.1	1980.1	2076.3	2177.8	2255.2	2265.7	2328.5	2288.7	2143.3
17.5°	1783.3	1769.6	1804.2	1855.5	1953.8	2086.8	2172.6	2197.7	2283.5	2275.2	2085.7
20°	1683.9	1683.9	1712.1	1772.8	1862.8	2012.4	2165.2	2157.9	2283.5	2259.4	2024.0
22.5°	1650.4	1667.1	1674.4	1720.4	1827.2	1955.9	2133.9	2147.5	2301.3	2252.1	1996.8
25°	1696.4	1674.4	1676.5	1713.1	1813.6	1928.7	2110.8	2141.2	2333.7	2288.7	1974.8
27.5°	1703.7	1725.7	1732.0	1757.1	1824.0	1937.1	2168.4	2230.2	2414.3	2374.6	1981.1
30°	1767.5	1789.6	1788.5	1831.4	1877.4	2005.1	2297.1	2309.6	2580.7	2482.3	2019.7
32.5°	1845.0	1868.0	1875.3	1925.6	1962.2	2129.7	2454.1	2486.5	2740.8	2651.8	2121.3
35°	1941.3	1933.0	1966.4	2016.6	2095.1	2311.7	2645.6	2700.0	2913.5	2871.7	2226.0
37.5°	2061.6	2051.2	2083.6	2165.2	2272.0	2527.4	2822.5	2858.1	3039.1	3075.7	2419.6
40°	2146.4	2150.6	2249.0	2358.8	2471.9	2732.5	2934.4	2969.0	3127.0	3266.2	2566.1
42.5°	2287.7	2313.8	2432.1	2566.1	2684.3	2886.3	3025.5	3059.0	3167.8	3419.0	2763.9
45°	2492.8	2481.3	2612.1	2761.8	2892.5	3046.4	3133.2	3121.8	3191.8	3570.7	2888.4
47.5°	2756.5	2758.6	2845.4	2973.2	3109.2	3185.6	3253.7	3212.8	3242.1	3730.8	3054.8
50°	2936.5	2952.2	3022.3	3153.2	3221.2	3338.3	3425.2	3400.2	3390.7	3827.1	3159.5
52.5°	2982.6	3029.7	3067.4	3230.6	3389.7	3574.9	3685.9	3739.2	3571.7	3859.5	3292.3
55°	2635.1	2677.0	2809.9	3033.8	3453.5	3949.6	4102.3	4103.4	3808.3	4004.0	3385.4
57.5°	2106.6	2021.8	2103.5	2341.1	2919.8	3933.9	4305.3	4256.2	3926.5	3919.2	3304.9
60°	1456.8	1435.8	1441.1	1535.2	2020.8	3129.1	3836.6	3900.4	3615.7	3397.0	2616.3
62.5°	1154.3	1136.5	1113.5	1103.1	1254.8	1949.7	2706.3	2796.3	2528.4	2202.9	1551.0
65°	904.2	893.7	896.8	938.7	937.7	1106.2	1479.7	1443.2	1155.4	854.0	487.7
67.5°	610.1	625.8	638.4	765.0	829.9	770.3	714.8	693.8	375.7	158.0	107.8
70°	343.3	345.3	358.9	478.3	630.0	597.5	492.9	492.9	187.3	57.5	61.7
72.5°	187.3	181.1	168.5	206.1	280.5	284.7	219.8	191.5	55.5	37.7	34.6
75°	91.1	90.0	77.5	63.8	60.7	50.2	38.7	35.6	25.1	24.1	20.9
77.5°	18.8	17.8	9.4	9.4	10.4	11.5	14.6	14.6	17.8	17.8	14.6
80°	0.0	0.0	1.0	4.2	7.3	10.4	12.5	12.5	14.6	14.6	11.5
82.5°	0.0	0.0	1.0	3.1	6.3	9.4	11.5	12.5	14.6	15.7	12.5
85°	0.0	0.0	0.0	2.1	5.2	7.3	6.3	6.3	5.2	4.2	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2	2479.2
2.5°	2442.6	2440.5	2392.3	2365.1	2315.9	2273.1	2238.5	2213.3	2213.3	2197.7	2183.1
5°	2373.5	2355.7	2253.1	2187.2	2094.1	2025.0	1977.9	1941.3	1883.8	1899.4	1837.7
7.5°	2287.7	2242.7	2106.6	2006.2	1877.4	1779.1	1678.6	1589.7	1503.9	1465.1	1486.0
10°	2195.6	2117.1	1934.0	1774.9	1614.8	1434.7	1317.6	1175.2	1087.3	1082.1	1059.1
12.5°	2098.3	2009.3	1786.4	1566.6	1356.3	1139.6	960.7	827.8	768.2	702.2	714.8
15°	2025.0	1893.2	1622.1	1357.3	1077.9	859.2	679.2	576.6	520.2	504.4	499.2
17.5°	1945.5	1804.2	1454.7	1134.4	845.6	618.5	488.7	439.5	417.6	417.6	414.4
20°	1862.8	1703.7	1288.2	927.2	634.2	461.5	391.4	375.7	374.7	373.6	373.6
22.5°	1808.4	1588.6	1137.5	736.7	478.3	369.5	340.1	333.9	338.0	350.6	350.6
25°	1750.8	1477.7	971.2	568.3	370.5	317.1	300.3	304.5	315.0	326.5	322.4
27.5°	1692.2	1405.5	814.2	445.8	303.5	277.4	271.1	280.5	292.0	302.4	299.3
30°	1678.6	1328.0	665.6	338.0	260.5	241.7	245.9	254.3	265.8	270.0	274.2
32.5°	1699.6	1267.3	545.2	277.4	227.1	221.9	221.9	226.1	233.4	242.8	239.7
35°	1759.2	1232.8	431.2	240.7	208.2	203.0	202.0	206.1	210.3	213.5	210.3
37.5°	1850.2	1205.6	352.7	213.5	195.7	187.3	185.3	184.2	188.4	189.4	191.5
40°	1966.4	1220.2	299.3	196.7	183.2	173.8	167.4	167.4	167.4	170.6	171.6
42.5°	2092.0	1240.1	258.5	187.3	171.6	160.1	153.8	151.7	153.8	158.0	157.0
45°	2223.9	1278.8	232.4	172.7	161.1	146.5	138.2	136.1	141.3	149.6	148.6
47.5°	2347.3	1334.3	212.4	163.2	150.7	137.1	126.7	124.6	134.0	145.5	146.5
50°	2470.9	1430.6	205.1	155.9	143.4	127.7	118.2	116.1	126.7	141.3	144.4
52.5°	2613.2	1534.2	199.9	146.5	135.0	120.3	109.9	107.8	119.3	138.2	139.2
55°	2706.3	1622.1	195.7	129.8	119.3	108.8	100.5	99.4	111.9	128.8	132.9
57.5°	2597.4	1499.7	181.1	113.0	101.5	96.3	89.0	89.0	99.4	115.1	118.2
60°	1969.5	986.8	128.8	91.1	85.8	82.7	79.6	79.6	87.9	99.4	100.5
62.5°	1153.3	531.6	82.7	73.3	73.3	70.1	64.9	64.9	73.3	79.6	80.6
65°	342.2	170.6	66.9	62.8	61.7	56.5	51.3	50.2	56.5	59.6	58.6
67.5°	98.4	78.5	55.5	52.3	51.3	42.9	39.8	38.7	39.8	37.7	36.7
70°	58.6	53.4	42.9	44.0	38.7	31.4	28.3	27.2	25.1	22.0	19.8
72.5°	32.5	32.5	31.4	33.5	27.2	20.9	17.8	14.6	11.5	9.4	8.4
75°	19.8	20.9	22.0	23.0	17.8	13.6	11.5	7.3	4.2	2.1	2.1
77.5°	13.6	14.6	15.7	16.7	14.6	12.5	9.4	5.2	1.0	0.0	0.0
80°	10.4	11.5	13.6	14.6	15.7	16.7	12.5	5.2	1.0	0.0	0.0
82.5°	11.5	12.5	15.7	14.6	14.6	14.6	11.5	5.2	1.0	0.0	0.0
85°	2.1	3.1	5.2	5.2	7.3	9.4	7.3	2.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)