

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: P652225

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7960.9 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

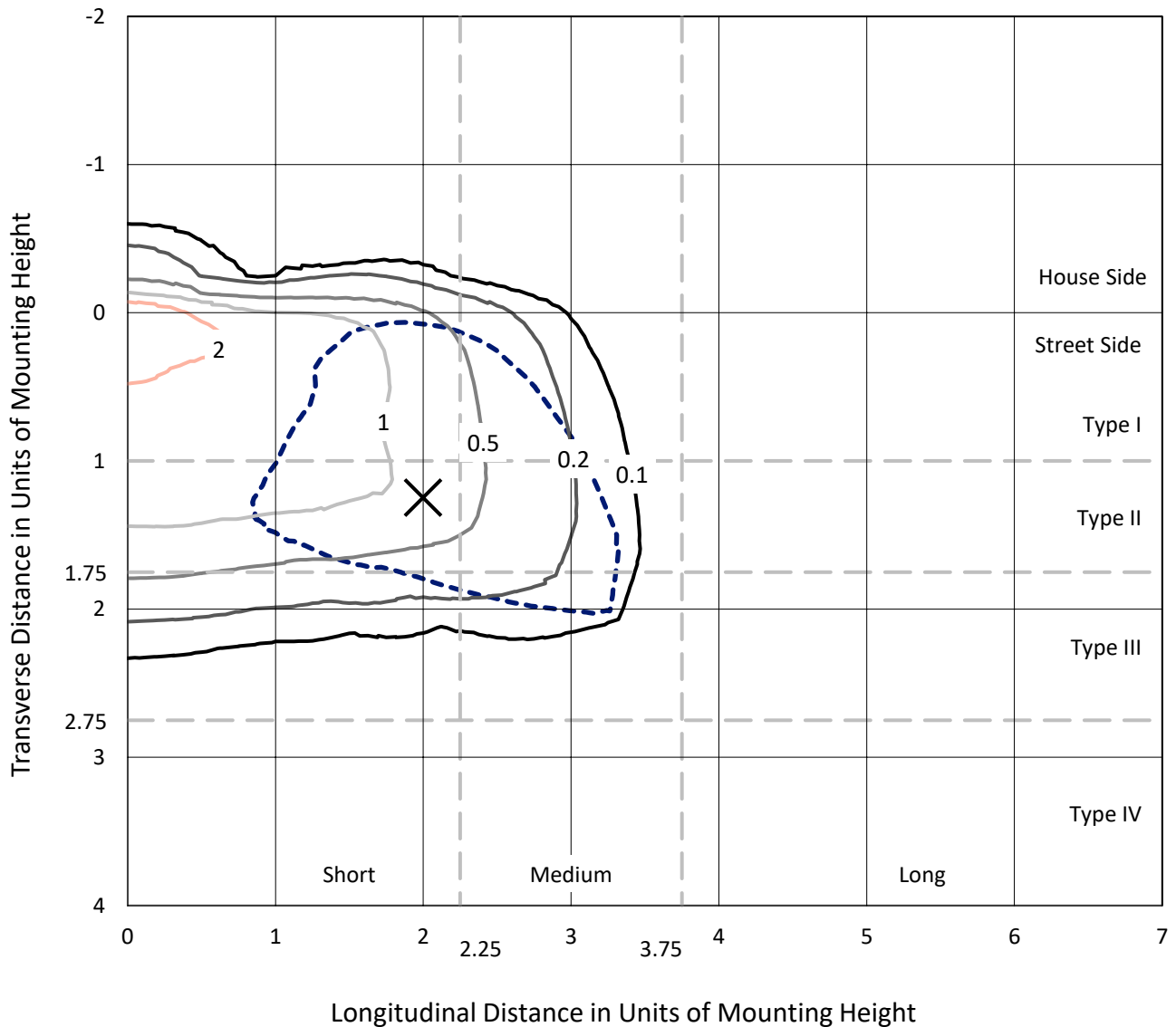
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

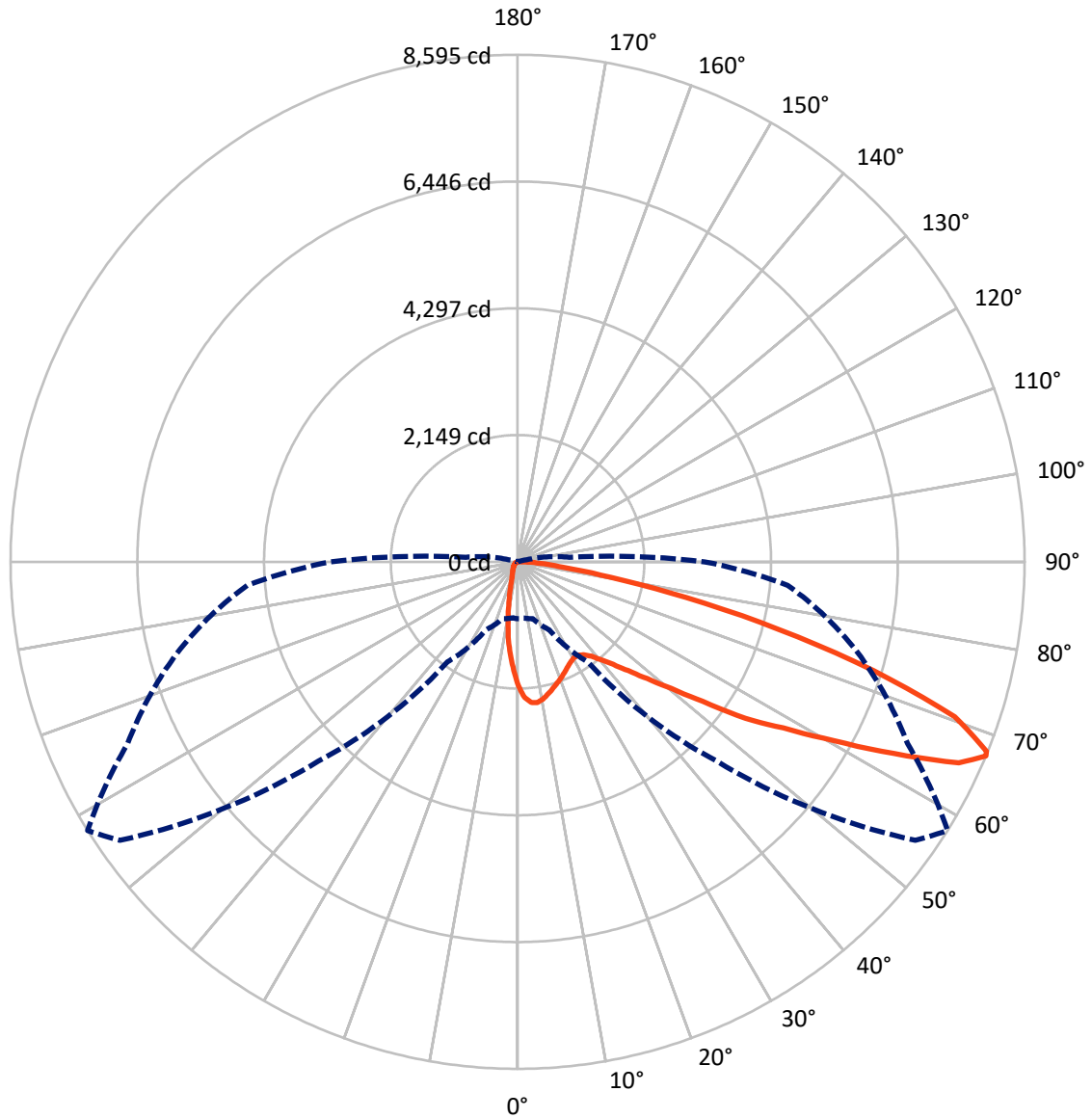
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	574.5	0.0	574.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	7386.4	0.0	7386.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	7960.9	0.0	7960.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.3	2.2
10°-20°	369.9	4.6
20°-30°	501.2	6.3
30°-40°	695.1	8.7
40°-50°	1108.6	13.9
50°-60°	1916.4	24.1
60°-70°	2189.1	27.5
70°-80°	912.6	11.5
80°-90°	96.8	1.2
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°	7960.9	100.0
0°-180°	7960.9	100.0

**Coefficient of Utilization**



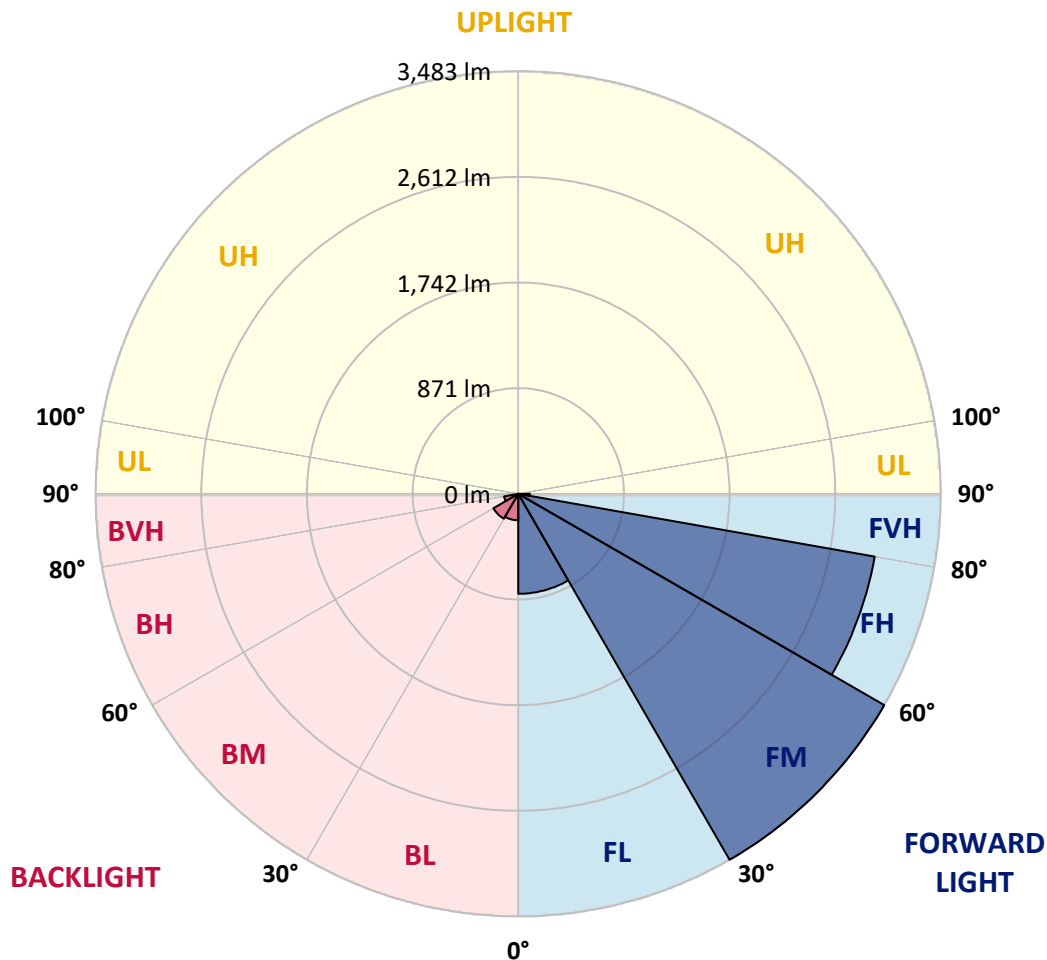
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.1	10.4			
FM (30°-60°)	3483.2	43.8			
FH (60°-80°)	2983.0	37.5			G2/5000
FVH (80°-90°)	96.1	1.2			G1/100
BL (0°-30°)	218.2	2.7	B1/500		
BM (30°-60°)	236.9	3.0	B1/1000		
BH (60°-80°)	118.8	1.5	B1/500		G1/500
BVH (80°-90°)	0.7	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3
2.5°	2449.2	2452.9	2439.2	2428.0	2399.2	2368.3	2327.4	2305.6	2268.3	2204.0	2132.7
5°	2506.7	2511.5	2509.4	2506.7	2495.5	2465.7	2413.6	2394.4	2339.7	2234.9	2106.1
7.5°	2379.0	2396.6	2398.7	2419.5	2439.2	2441.8	2422.1	2407.7	2357.2	2234.3	2058.8
10°	2209.8	2221.6	2238.6	2262.5	2309.9	2349.2	2368.3	2366.2	2337.0	2217.8	2003.4
12.5°	2039.1	2045.5	2071.6	2112.5	2170.5	2237.5	2288.6	2298.7	2299.2	2198.1	1957.2
15°	1892.2	1889.6	1909.8	1957.2	2038.6	2122.6	2214.1	2230.1	2255.6	2178.9	1914.0
17.5°	1766.7	1780.6	1783.8	1835.9	1910.8	2019.9	2136.4	2164.6	2215.7	2162.5	1878.5
20°	1689.1	1696.5	1703.4	1732.6	1800.2	1915.1	2063.6	2102.4	2178.4	2147.6	1838.5
22.5°	1666.2	1671.0	1665.1	1674.2	1722.0	1824.1	1984.3	2035.9	2142.8	2133.8	1806.0
25°	1683.7	1688.5	1674.7	1664.0	1680.5	1750.2	1907.6	1970.5	2114.1	2131.1	1781.6
27.5°	1726.2	1735.3	1716.1	1697.1	1687.5	1710.3	1847.6	1920.4	2094.4	2143.9	1770.4
30°	1792.8	1798.1	1783.8	1760.3	1738.5	1715.6	1816.1	1885.9	2089.0	2173.6	1769.4
32.5°	1865.1	1876.3	1868.3	1852.9	1824.7	1770.4	1825.2	1887.0	2101.8	2216.8	1782.7
35°	1954.5	1967.3	1974.7	1971.6	1935.3	1867.8	1882.7	1934.8	2135.9	2296.0	1818.8
37.5°	2042.3	2053.5	2095.4	2109.8	2077.9	2014.1	1994.4	2029.0	2210.9	2399.8	1884.3
40°	2142.8	2157.7	2216.8	2271.5	2256.2	2189.1	2153.0	2181.6	2325.8	2556.1	2008.2
42.5°	2239.1	2265.7	2355.6	2452.4	2466.8	2391.8	2367.8	2377.4	2496.1	2781.2	2181.1
45°	2375.8	2400.8	2516.8	2648.2	2715.8	2657.2	2632.8	2631.2	2729.5	3097.7	2461.4
47.5°	2573.2	2595.5	2732.2	2862.1	2982.3	2990.3	2944.0	2959.9	3023.2	3467.9	2805.2
50°	2815.2	2867.9	2957.8	3092.9	3253.6	3383.4	3397.7	3376.4	3430.8	3896.8	3217.9
52.5°	3166.9	3187.1	3269.6	3380.7	3569.0	3789.3	3960.0	3930.8	3913.8	4305.3	3635.1
55°	3429.2	3456.3	3584.5	3737.2	4013.3	4303.7	4673.9	4684.1	4469.2	4697.9	4043.0
57.5°	3349.9	3391.3	3585.5	3892.5	4499.5	5030.4	5306.0	5312.8	4983.1	5079.3	4503.7
60°	2942.9	2962.6	3240.8	3650.4	4541.0	5817.7	6202.4	6146.5	5506.0	5506.0	4910.7
62.5°	2086.9	2117.8	2343.4	2946.1	4101.1	6091.2	7275.9	7160.4	6226.3	5914.0	5153.3
65°	1333.7	1303.9	1453.3	1859.8	3055.2	5687.4	8210.6	8217.5	6904.0	6077.3	5020.9
67°	966.1	954.4	997.4	1271.4	2071.6	4780.9	8230.3	8594.7	7293.4	5974.1	4597.3
67.5°	883.6	892.6	924.0	1147.0	1882.2	4350.5	8140.9	8572.3	7381.2	5911.9	4444.2
70°	669.8	654.3	688.4	811.2	1128.4	2744.5	7003.0	7862.1	7272.1	5294.3	3551.0
72.5°	492.6	491.0	538.3	663.4	868.8	1461.9	5257.0	6304.0	5941.2	4031.3	2235.9
75°	332.4	347.4	422.9	554.3	787.3	948.0	3583.9	4573.4	4124.4	2289.1	913.9
77.5°	189.4	190.5	272.4	445.2	707.0	762.9	2123.7	2913.6	2183.2	761.3	271.3
80°	81.9	89.9	135.1	323.4	586.3	675.6	1217.7	1601.3	883.0	161.2	87.8
82.5°	30.4	35.7	59.5	199.0	427.7	556.5	735.7	764.5	299.5	56.9	54.8
85°	0.0	1.1	21.8	93.1	222.9	248.4	491.6	453.2	132.5	27.2	35.7
87.5°	0.0	0.0	0.0	9.6	29.3	92.6	152.6	170.2	32.0	9.6	8.5
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°	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3	2110.3
2.5°	2094.4	2059.9	1973.2	1886.4	1822.0	1768.3	1687.5	1643.3	1619.9	1585.3	1587.4
5°	2041.7	1971.6	1818.8	1660.8	1533.1	1408.7	1259.7	1199.6	1149.1	1120.4	1101.2
7.5°	1963.6	1859.8	1633.7	1423.1	1226.8	1009.2	845.9	736.8	663.4	636.2	610.1
10°	1877.9	1740.1	1445.9	1153.9	881.5	657.0	518.6	418.6	383.0	350.0	353.2
12.5°	1798.6	1631.0	1273.5	910.7	617.6	417.6	325.6	284.6	272.9	269.2	269.2
15°	1733.7	1526.8	1088.4	684.7	423.4	300.1	260.7	249.5	245.2	244.1	244.1
17.5°	1664.6	1427.8	921.4	505.9	308.0	251.1	237.8	230.3	228.8	227.7	227.7
20°	1602.9	1328.4	762.9	376.6	248.9	226.1	217.6	212.8	211.2	210.2	210.7
22.5°	1544.3	1240.1	613.9	284.6	219.2	205.9	197.4	192.6	189.4	186.7	187.3
25°	1492.2	1154.9	493.7	233.0	197.4	185.7	177.1	170.2	163.3	160.1	159.6
27.5°	1455.5	1080.4	384.6	199.5	177.7	164.9	154.2	145.7	136.7	132.0	130.9
30°	1425.2	1004.9	304.3	176.1	158.0	145.7	132.5	120.3	110.7	105.9	103.7
32.5°	1405.5	933.1	239.9	156.9	141.5	126.6	111.7	99.5	88.8	84.0	83.0
35°	1402.3	873.0	196.3	141.0	126.6	110.7	95.2	81.9	72.9	68.1	67.0
37.5°	1425.2	826.7	164.4	128.2	114.4	96.8	79.8	67.5	59.5	55.8	55.3
40°	1486.4	797.4	142.5	117.6	103.2	84.0	68.1	57.4	49.5	45.8	45.8
42.5°	1602.9	798.5	128.2	107.5	92.0	71.8	57.9	47.9	41.0	37.8	36.7
45°	1784.8	834.7	116.0	97.4	81.4	62.2	49.5	39.4	32.5	29.8	29.8
47.5°	2028.4	906.5	105.3	87.2	71.8	53.2	42.0	32.0	26.1	23.4	23.4
50°	2347.1	1021.9	96.3	78.7	63.8	45.8	34.1	26.1	20.2	18.1	17.6
52.5°	2680.1	1164.5	85.6	71.3	54.8	38.9	27.7	20.2	15.4	13.8	13.3
55°	3047.7	1303.9	75.5	63.8	44.7	32.5	21.8	16.0	11.2	9.6	9.6
57.5°	3418.5	1440.6	63.3	53.2	35.1	24.0	17.0	11.7	7.5	5.9	5.9
60°	3732.4	1484.8	53.7	43.1	26.6	17.0	12.2	7.5	4.3	2.7	2.7
62.5°	3775.4	1335.8	45.2	33.0	19.2	11.7	6.4	4.3	1.6	1.1	1.1
65°	3541.4	1085.2	37.8	25.0	12.8	5.9	2.7	1.6	0.5	0.0	0.0
67°	3173.3	879.9	30.9	18.6	9.1	3.7	1.6	0.5	0.0	0.0	0.0
67.5°	3079.1	838.9	29.8	17.6	8.0	3.2	1.1	0.5	0.0	0.0	0.0
70°	2416.3	628.2	21.3	10.7	4.8	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	1501.8	355.3	15.4	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	567.6	124.5	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	176.6	47.3	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	59.5	18.1	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.7	7.5	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.9	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.1	0.5	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)