

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: P652226

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652226  
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-840-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 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: 9538.6 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

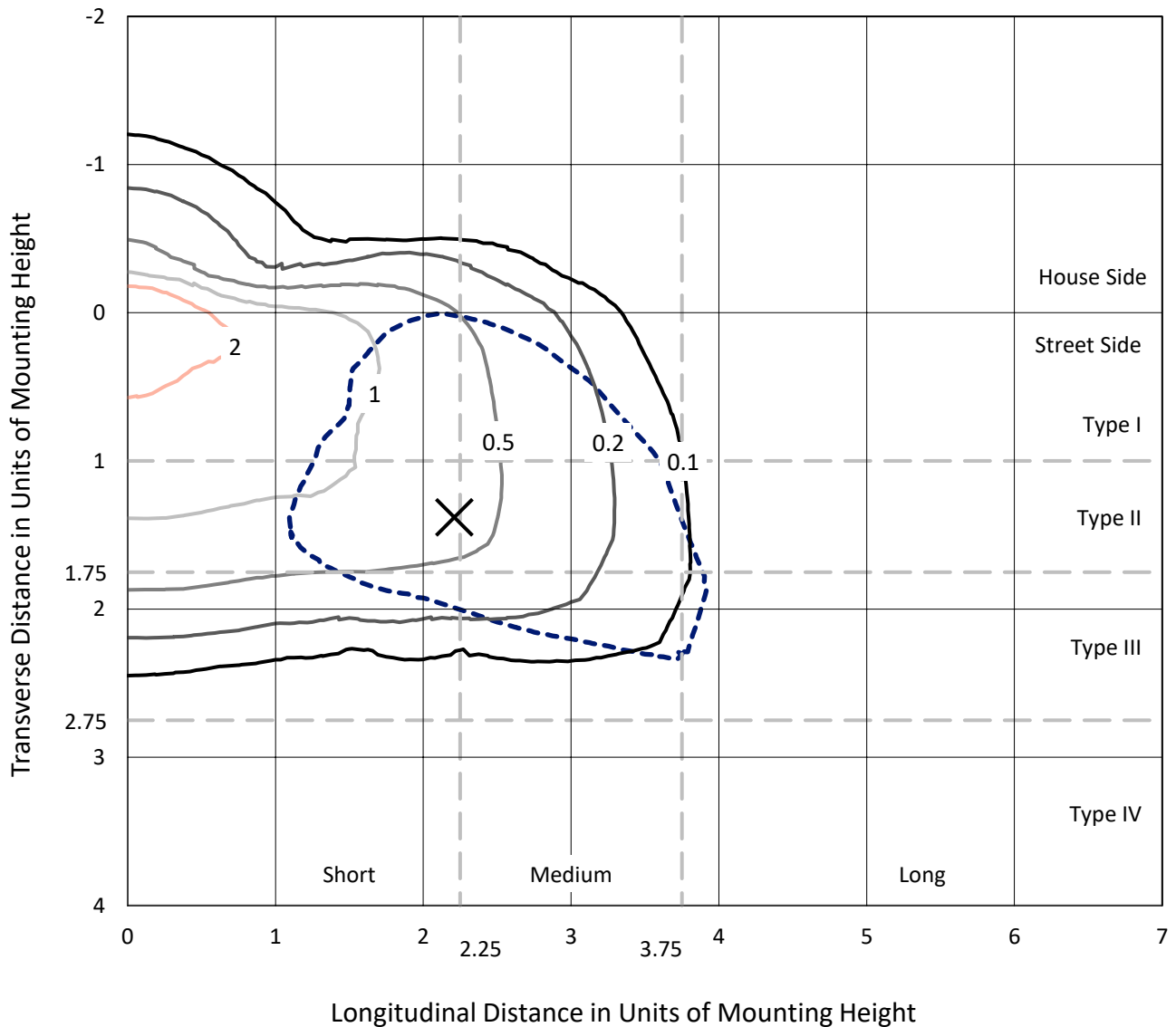
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

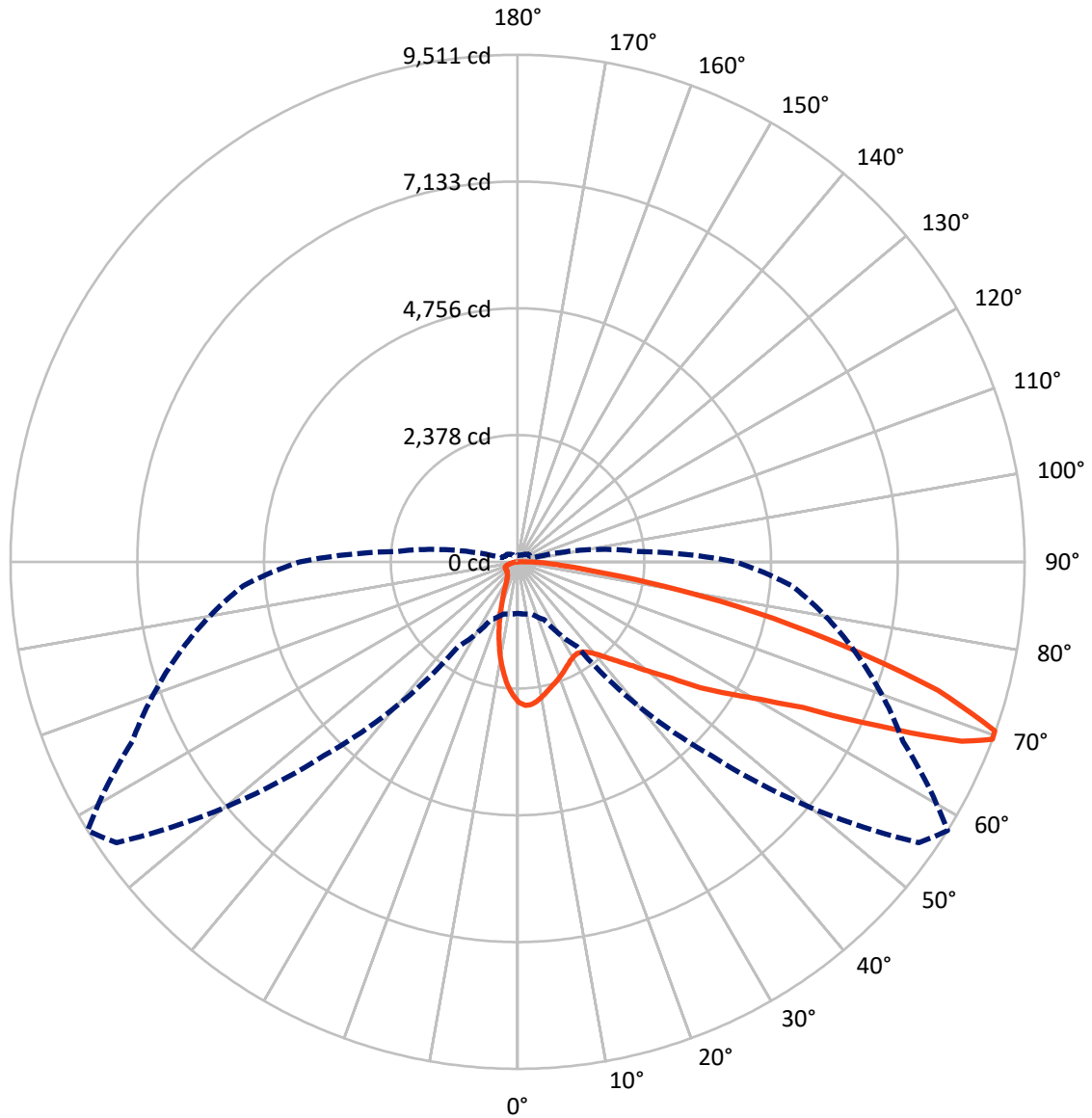
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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
<b>House Side</b>	Lumens	1397.9	0.0	1397.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	8140.7	0.0	8140.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	9538.6	0.0	9538.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.9	2.3
10°-20°	491.5	5.2
20°-30°	635.1	6.7
30°-40°	824.8	8.6
40°-50°	1199.2	12.6
50°-60°	1913.5	20.1
60°-70°	2556.3	26.8
70°-80°	1473.6	15.4
80°-90°	220.7	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°	9538.6	100.0
0°-180°	9538.6	100.0

**Coefficient of Utilization**

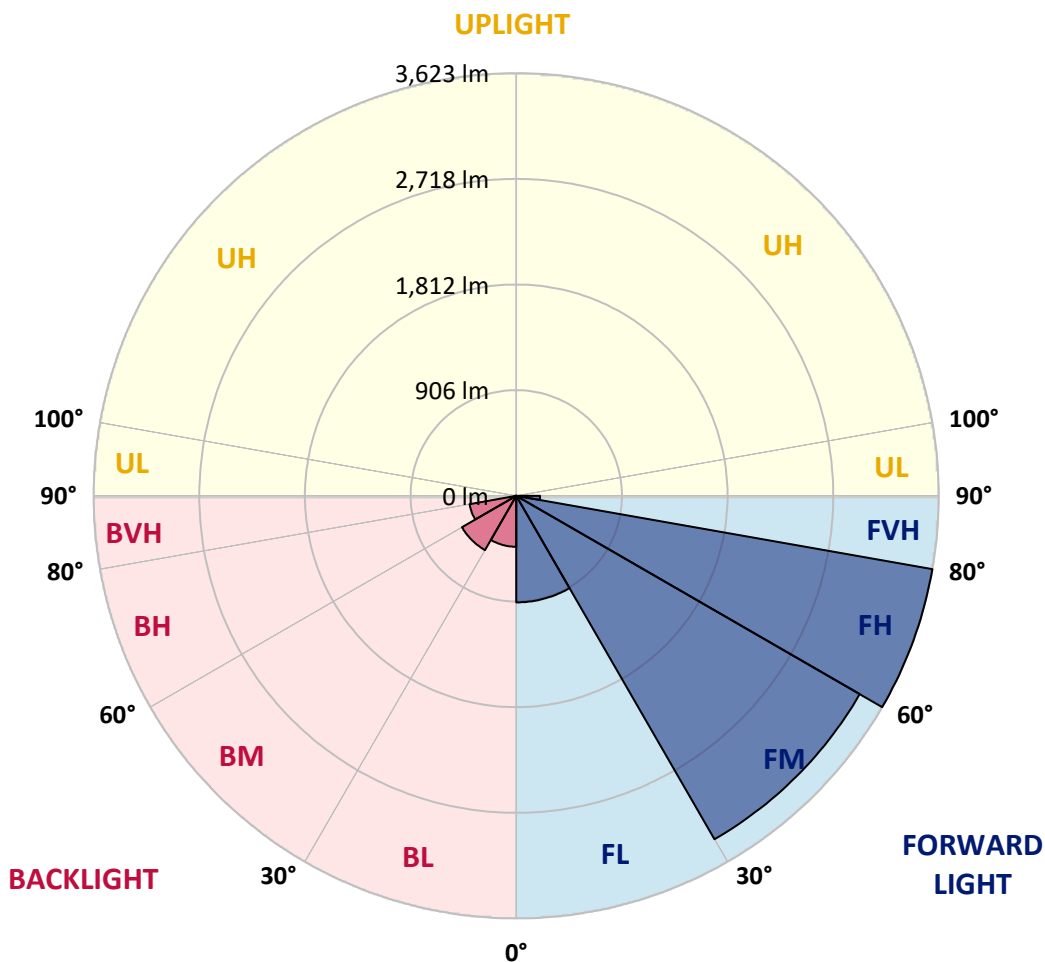


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.6	9.6			
FM (30°-60°)	3400.0	35.6			
FH (60°-80°)	3623.4	38.0			G2/5000
FVH (80°-90°)	203.8	2.1			G2/225
BL (0°-30°)	436.9	4.6	B1/500		
BM (30°-60°)	537.6	5.6	B1/1000		
BH (60°-80°)	406.5	4.3	B1/500		G1/500
BVH (80°-90°)	16.9	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°	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9
2.5°	2733.8	2741.2	2739.1	2736.4	2732.2	2720.5	2701.4	2698.2	2685.9	2659.8	2627.4
5°	2691.8	2698.2	2698.7	2702.4	2707.8	2705.6	2691.8	2690.2	2672.1	2637.0	2582.7
7.5°	2547.6	2556.1	2574.7	2595.5	2614.1	2631.7	2635.9	2638.6	2627.4	2587.0	2514.6
10°	2385.3	2393.9	2402.4	2433.3	2479.0	2522.6	2558.7	2563.5	2566.2	2529.0	2440.7
12.5°	2205.5	2223.1	2241.2	2286.9	2348.2	2416.8	2480.6	2490.7	2508.8	2480.6	2376.8
15°	2052.9	2071.0	2097.0	2138.0	2211.9	2310.9	2400.8	2417.3	2452.9	2438.6	2317.3
17.5°	1947.0	1953.4	1971.5	2018.3	2098.1	2202.3	2322.6	2355.6	2412.5	2408.8	2266.2
20°	1863.5	1871.5	1882.7	1911.3	1994.3	2104.5	2249.7	2292.2	2369.4	2382.1	2215.7
22.5°	1828.4	1834.2	1832.6	1848.1	1904.4	2015.1	2175.8	2226.3	2331.1	2364.1	2168.9
25°	1830.5	1835.8	1827.8	1824.1	1857.7	1936.4	2098.6	2163.0	2300.2	2351.9	2126.3
27.5°	1866.2	1869.9	1855.0	1840.1	1842.7	1887.5	2034.8	2106.0	2274.1	2357.2	2090.6
30°	1914.0	1920.9	1911.3	1893.3	1873.6	1875.8	1993.8	2064.1	2262.0	2375.7	2073.7
32.5°	1975.8	1982.2	1977.9	1963.5	1938.0	1909.7	1983.8	2048.6	2263.0	2413.6	2069.9
35°	2040.6	2053.4	2060.4	2059.3	2038.5	1989.6	2023.6	2077.4	2288.5	2476.8	2091.7
37.5°	2114.0	2124.7	2154.5	2173.6	2154.5	2097.5	2113.5	2150.8	2345.0	2568.3	2139.6
40°	2185.3	2201.3	2244.9	2304.5	2297.0	2247.1	2250.8	2275.2	2444.4	2704.6	2233.2
42.5°	2259.9	2278.9	2355.1	2443.4	2460.9	2422.1	2432.2	2454.0	2585.9	2893.4	2393.9
45°	2355.6	2378.4	2472.0	2582.2	2651.3	2627.4	2656.1	2666.8	2775.3	3139.2	2605.6
47.5°	2479.0	2505.6	2621.1	2758.3	2856.1	2878.0	2927.9	2921.5	3009.9	3430.2	2880.1
50°	2687.0	2701.9	2811.0	2950.8	3085.5	3183.9	3238.1	3248.2	3300.8	3713.2	3187.1
52.5°	2934.3	2947.6	3026.4	3148.7	3317.4	3525.9	3659.9	3627.0	3639.8	4057.9	3546.2
55°	3212.5	3234.9	3284.9	3366.4	3584.9	3891.9	4161.1	4169.1	4027.5	4387.7	3890.3
57.5°	3428.0	3465.8	3551.5	3667.4	3944.5	4298.9	4660.6	4666.0	4485.1	4739.9	4270.1
60°	3319.5	3364.2	3560.0	3842.4	4416.4	5009.1	5257.5	5227.2	4930.3	5140.9	4733.5
62.5°	2851.3	2859.3	3143.9	3585.5	4561.7	5959.2	6145.9	6017.7	5524.5	5649.5	5204.3
65°	1845.4	1897.5	2123.1	2741.7	4084.5	6486.3	7702.4	7406.1	6357.6	6226.7	5598.5
67.5°	1165.0	1151.7	1245.4	1565.6	2809.4	6021.9	9030.7	8983.9	7447.1	6591.1	5504.3
69°	966.1	980.9	1012.9	1200.1	1933.2	5141.5	9187.7	9511.1	7975.3	6562.4	5162.2
70°	876.2	883.0	916.6	1063.9	1491.7	4306.3	8930.2	9496.7	8182.8	6442.1	4914.4
72.5°	695.3	694.8	752.2	885.2	1115.0	2458.2	7332.7	8245.0	7950.8	5882.5	4060.5
75°	528.2	536.7	600.1	749.0	1027.2	1343.2	5117.1	6349.6	6350.1	4646.3	2533.8
77.5°	380.9	386.2	460.2	628.8	967.7	1088.9	3408.3	4554.2	4281.3	2128.9	796.3
80°	249.5	252.7	309.1	498.0	872.5	1027.2	2020.9	2787.5	2019.3	565.0	263.3
82.5°	136.7	152.6	188.9	322.4	700.0	949.1	1228.3	1410.8	757.5	251.6	137.3
85°	68.6	72.9	106.4	188.3	457.5	785.2	855.4	809.1	391.0	125.0	71.3
87.5°	20.2	25.6	44.2	72.9	185.7	409.1	476.1	427.1	150.5	45.2	14.9
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°	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9
2.5°	2614.1	2604.5	2561.9	2523.7	2488.5	2451.3	2420.0	2392.3	2394.9	2395.5	2367.2
5°	2554.5	2532.8	2451.9	2376.3	2312.5	2231.6	2162.5	2117.8	2095.4	2065.7	2076.3
7.5°	2473.6	2431.7	2319.4	2193.8	2076.3	1971.5	1857.7	1779.5	1729.4	1681.0	1687.4
10°	2390.1	2322.6	2159.3	1993.3	1841.1	1673.6	1528.3	1403.9	1311.3	1276.7	1253.8
12.5°	2304.5	2215.7	2008.2	1787.5	1577.3	1376.7	1170.8	1037.4	935.2	880.9	887.8
15°	2226.3	2118.3	1850.7	1581.6	1308.7	1069.8	864.5	737.3	666.0	651.1	659.7
17.5°	2154.0	2012.4	1703.4	1381.5	1062.9	802.2	649.5	577.7	549.0	541.0	540.5
20°	2079.5	1922.5	1537.9	1167.6	828.3	621.8	533.0	499.6	494.2	497.4	498.0
22.5°	2003.9	1811.3	1367.7	955.5	659.7	508.6	466.0	457.0	461.2	468.7	469.7
25°	1934.2	1713.5	1203.9	769.3	526.6	446.8	426.1	426.1	435.7	446.8	447.4
27.5°	1876.8	1618.8	1040.6	610.7	441.0	402.2	395.3	399.0	412.3	420.8	421.3
30°	1829.4	1530.5	886.2	489.4	387.8	366.5	364.9	371.3	380.9	388.9	389.4
32.5°	1793.8	1452.8	742.1	411.2	351.1	339.4	338.8	343.6	349.0	351.1	353.2
35°	1780.0	1388.4	610.1	361.7	326.6	319.2	319.2	318.7	320.8	321.9	322.9
37.5°	1791.2	1339.0	508.0	329.8	308.6	303.3	300.1	296.9	295.8	295.8	296.3
40°	1838.5	1312.9	431.9	309.1	295.8	287.8	281.9	278.2	274.5	275.6	276.6
42.5°	1939.0	1317.7	380.4	295.3	284.6	273.4	264.9	260.6	258.0	261.2	260.6
45°	2099.1	1365.5	347.4	285.7	273.4	259.0	251.1	246.8	246.8	251.6	253.2
47.5°	2323.1	1457.0	329.8	278.2	264.9	247.9	239.9	236.7	237.8	245.7	246.3
50°	2596.6	1616.1	326.6	274.5	260.6	239.9	230.9	227.7	230.3	238.8	239.9
52.5°	2898.2	1820.9	342.0	275.0	256.9	235.1	223.5	218.7	221.3	228.2	230.3
55°	3255.7	2077.4	382.0	277.2	251.6	232.5	218.1	207.5	210.7	215.5	216.0
57.5°	3620.6	2400.8	452.2	277.7	247.3	227.7	209.1	195.2	195.2	198.4	200.0
60°	4066.4	2752.9	544.7	278.2	247.9	220.8	196.8	181.4	179.3	180.9	181.4
62.5°	4509.0	3047.7	560.2	276.6	253.2	213.9	183.5	167.6	163.8	163.3	162.2
65°	4704.2	2992.9	459.1	269.2	259.0	209.6	172.9	154.2	147.8	145.7	145.7
67.5°	4386.1	2531.7	345.2	259.0	255.3	205.4	162.8	143.1	135.7	131.4	131.4
69°	4087.1	2251.9	310.2	252.1	245.7	198.4	156.4	137.3	128.2	123.5	121.9
70°	3856.2	2059.3	295.3	246.3	236.7	190.5	151.6	133.0	122.9	117.6	116.5
72.5°	3077.5	1615.6	258.5	224.0	201.6	160.1	134.6	119.7	110.1	104.3	102.7
75°	1773.6	875.6	214.4	194.7	162.2	124.5	113.9	104.3	96.8	91.5	89.9
77.5°	545.8	338.3	155.3	153.7	119.2	96.3	91.0	87.2	81.9	76.1	75.0
80°	229.8	172.3	105.3	103.7	79.2	67.0	65.4	64.9	62.7	57.9	56.3
82.5°	126.1	97.4	73.4	63.8	47.9	38.9	40.5	41.0	39.4	34.6	31.4
85°	61.7	53.2	35.7	28.8	21.8	13.8	13.3	16.0	14.9	10.7	11.7
87.5°	12.2	14.9	9.6	4.3	2.1	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)