

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: P451533

Luminaire Tested: **GALN-SA2B-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451533
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-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 9013 lumens
Efficiency: N/A
Efficacy: 109.9 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

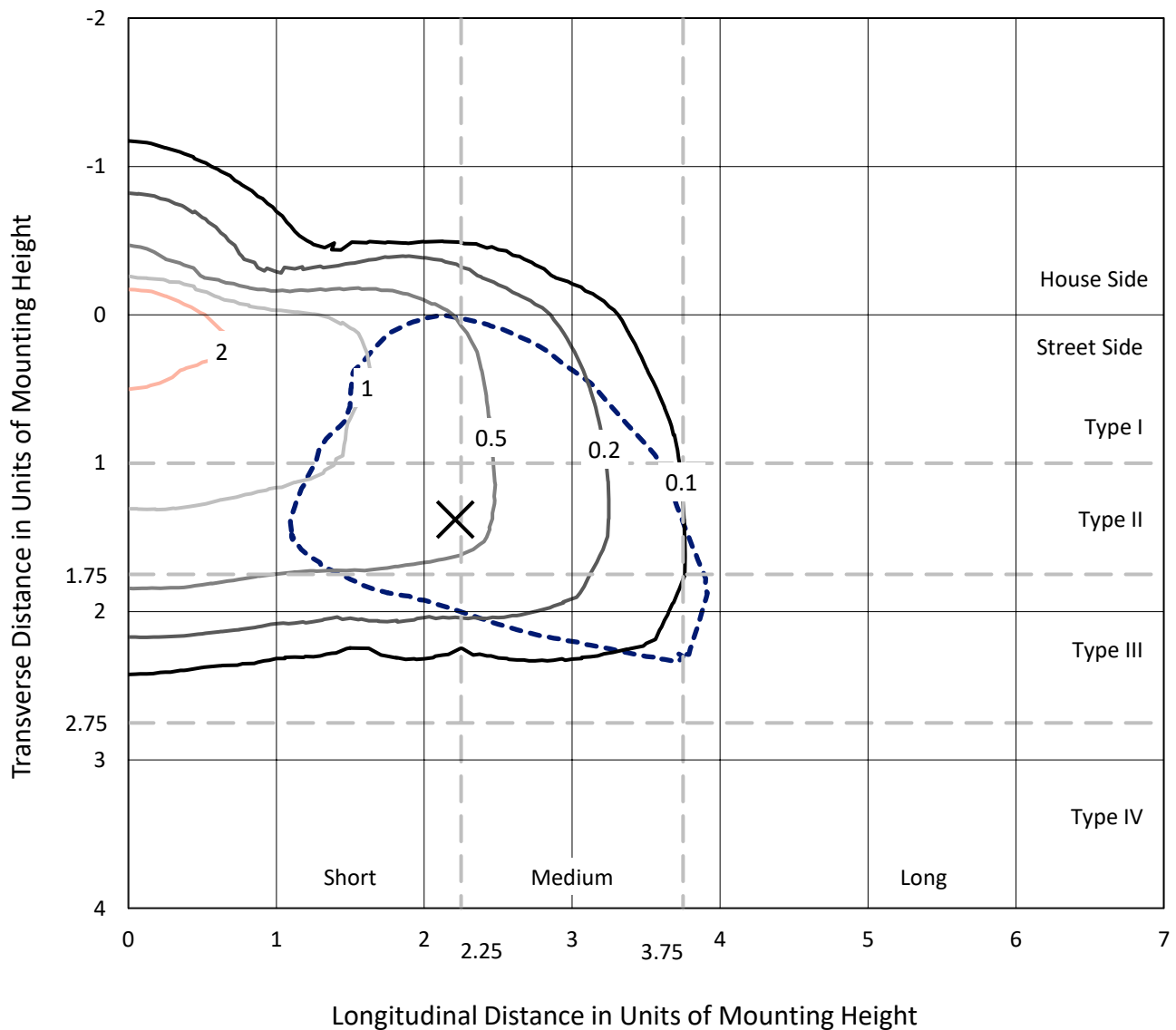


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

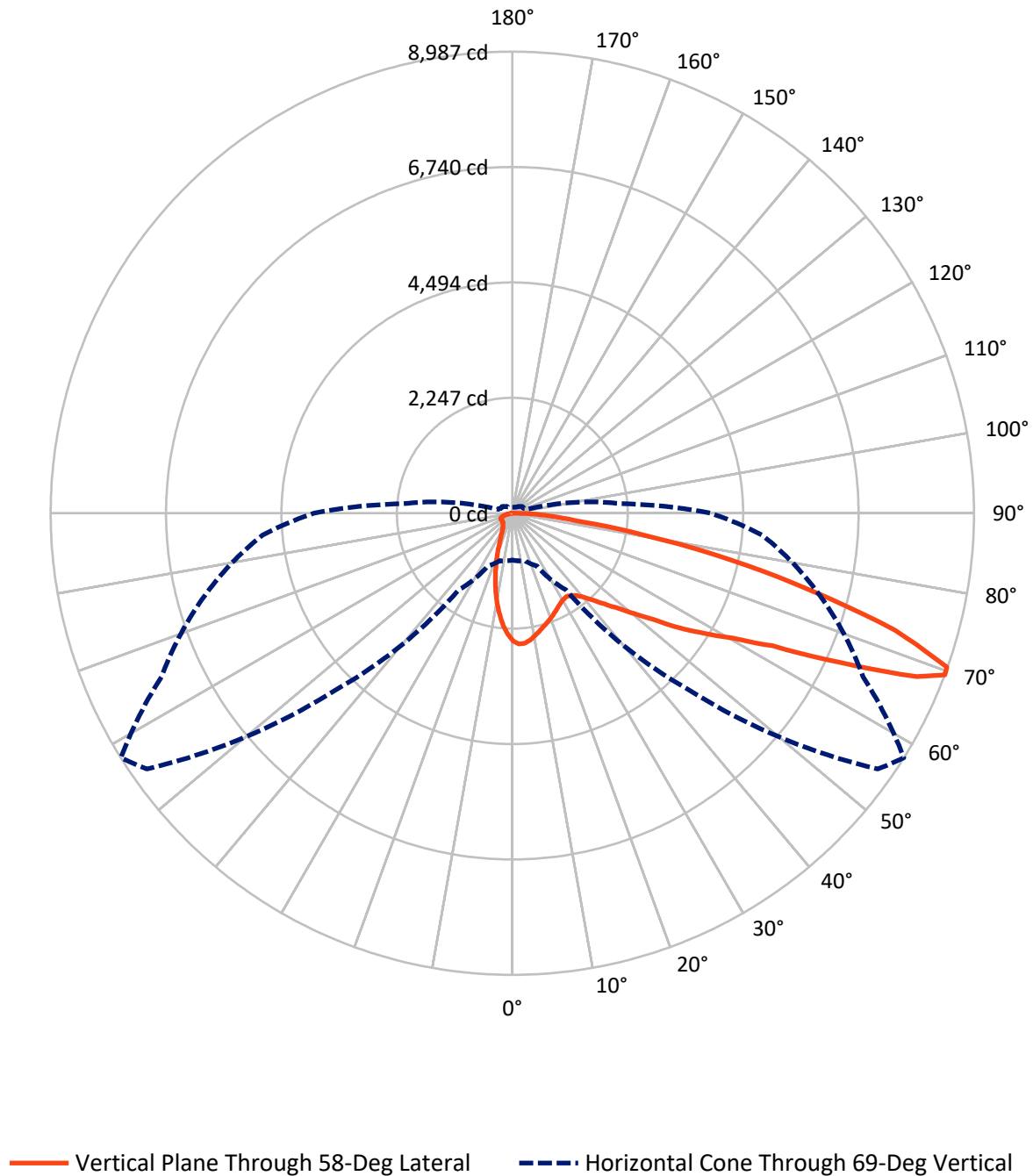


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1320.9	0.0	1320.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7692.1	0.0	7692.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	9013.0	0.0	9013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	2.3
10°-20°	464.5	5.2
20°-30°	600.1	6.7
30°-40°	779.4	8.6
40°-50°	1133.1	12.6
50°-60°	1808.1	20.1
60°-70°	2415.4	26.8
70°-80°	1392.4	15.4
80°-90°	208.5	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°	9013.0	100.0
0°-180°	9013.0	100.0

Coefficient of Utilization



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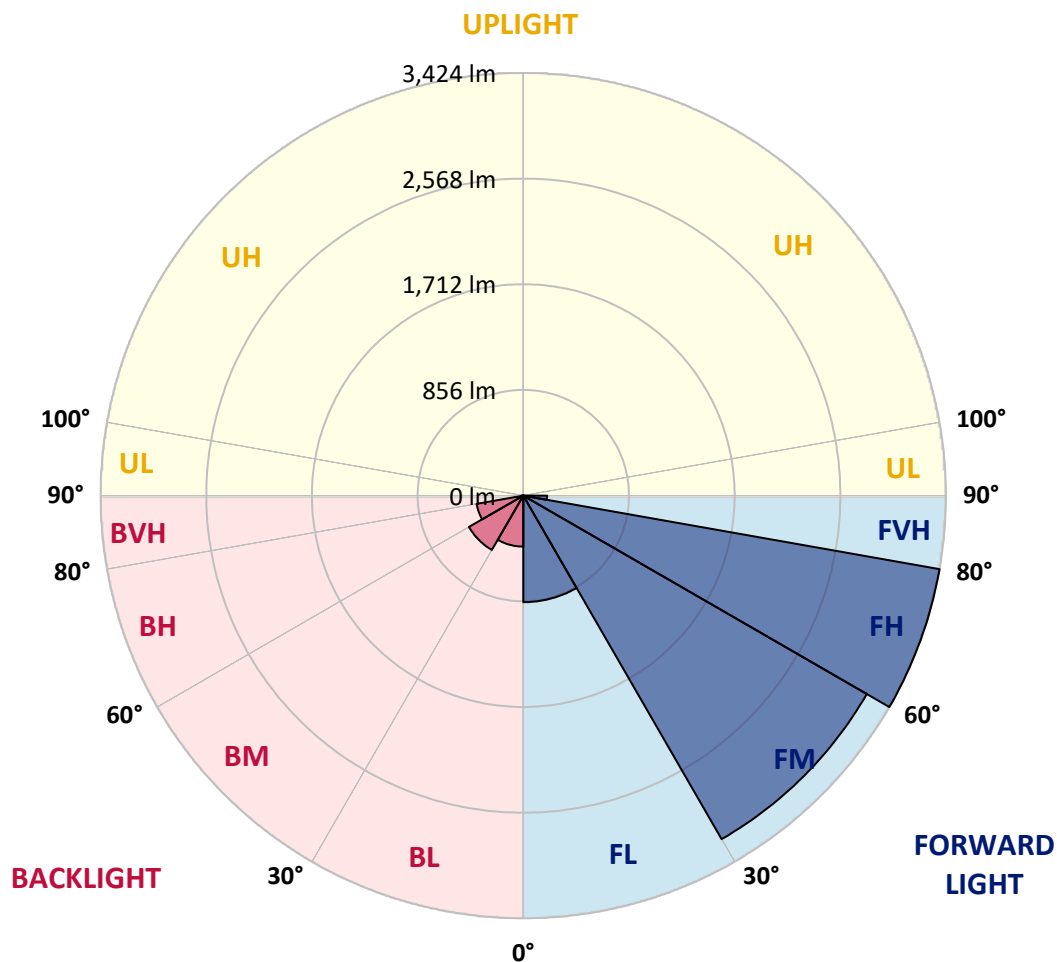
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.2	9.6			
FM	(30°-60°)	3212.7	35.6			
FH	(60°-80°)	3423.7	38.0			G2/5000
FVH	(80°-90°)	192.6	2.1			G2/225
BL	(0°-30°)	412.8	4.6	B1/500		
BM	(30°-60°)	508.0	5.6	B1/1000		
BH	(60°-80°)	384.1	4.3	B1/500		G1/500
BVH	(80°-90°)	16.0	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°	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7
2.5°	2583.2	2590.2	2588.2	2585.7	2581.6	2570.6	2552.5	2549.5	2537.9	2513.3	2482.6
5°	2543.4	2549.5	2550.0	2553.5	2558.5	2556.5	2543.4	2541.9	2524.8	2491.7	2440.4
7.5°	2407.2	2415.3	2432.9	2452.5	2470.1	2486.6	2490.7	2493.2	2482.6	2444.4	2376.1
10°	2253.9	2262.0	2270.0	2299.2	2342.4	2383.6	2417.8	2422.3	2424.8	2389.6	2306.2
12.5°	2084.0	2100.6	2117.7	2160.9	2218.7	2283.6	2343.9	2353.4	2370.5	2343.9	2245.9
15°	1939.8	1956.8	1981.5	2020.2	2090.0	2183.5	2268.5	2284.1	2317.8	2304.2	2189.6
17.5°	1839.7	1845.8	1862.8	1907.1	1982.5	2081.0	2194.6	2225.8	2279.5	2276.0	2141.3
20°	1760.8	1768.3	1778.9	1806.0	1884.5	1988.5	2125.7	2165.9	2238.8	2250.9	2093.6
22.5°	1727.6	1733.2	1731.7	1746.2	1799.5	1904.1	2055.9	2103.6	2202.6	2233.8	2049.3
25°	1729.6	1734.7	1727.1	1723.6	1755.3	1829.7	1983.0	2043.8	2173.5	2222.2	2009.1
27.5°	1763.3	1766.8	1752.8	1738.7	1741.2	1783.4	1922.7	1990.0	2148.9	2227.3	1975.4
30°	1808.6	1815.1	1806.0	1789.0	1770.4	1772.4	1884.0	1950.3	2137.3	2244.9	1959.4
32.5°	1866.9	1872.9	1868.9	1855.3	1831.2	1804.5	1874.4	1935.7	2138.3	2280.6	1955.8
35°	1928.2	1940.3	1946.8	1945.8	1926.2	1879.9	1912.1	1962.9	2162.4	2340.4	1976.4
37.5°	1997.6	2007.6	2035.8	2053.9	2035.8	1982.0	1997.1	2032.2	2215.7	2426.8	2021.7
40°	2064.9	2080.0	2121.2	2177.5	2170.5	2123.2	2126.7	2149.9	2309.7	2555.5	2110.2
42.5°	2135.3	2153.4	2225.3	2308.7	2325.3	2288.6	2298.1	2318.8	2443.4	2734.0	2262.0
45°	2225.8	2247.4	2335.8	2439.9	2505.2	2482.6	2509.8	2519.8	2622.4	2966.2	2462.0
47.5°	2342.4	2367.5	2476.6	2606.3	2698.8	2719.4	2766.6	2760.6	2844.0	3241.1	2721.4
50°	2538.9	2553.0	2656.0	2788.2	2915.4	3008.4	3059.7	3069.2	3119.0	3508.5	3011.4
52.5°	2772.7	2785.2	2859.6	2975.2	3134.6	3331.6	3458.3	3427.1	3439.2	3834.3	3350.7
55°	3035.5	3056.7	3103.9	3180.8	3387.4	3677.4	3931.8	3939.3	3805.6	4145.9	3675.9
57.5°	3239.1	3274.8	3355.7	3465.3	3727.2	4062.0	4403.8	4408.8	4237.9	4478.7	4034.8
60°	3136.6	3178.8	3363.8	3630.7	4173.1	4733.0	4967.8	4939.1	4658.6	4857.7	4472.6
62.5°	2694.2	2701.8	2970.7	3387.9	4310.3	5630.8	5807.2	5686.1	5220.1	5338.2	4917.5
65°	1743.7	1793.0	2006.1	2590.7	3859.4	6128.9	7278.0	6998.0	6007.3	5883.6	5290.0
67.5°	1100.8	1088.3	1176.7	1479.3	2654.5	5690.1	8533.1	8488.9	7036.7	6227.9	5201.0
69°	912.8	926.9	957.1	1134.0	1826.7	4858.2	8681.4	8987.0	7535.8	6200.8	4877.8
70°	827.9	834.4	866.1	1005.3	1409.5	4069.0	8438.1	8973.4	7731.9	6087.2	4643.5
72.5°	657.0	656.5	710.8	836.4	1053.6	2322.8	6928.6	7790.7	7512.7	5558.4	3836.8
75°	499.1	507.2	567.0	707.7	970.6	1269.2	4835.1	5999.7	6000.2	4390.2	2394.2
77.5°	359.9	364.9	434.8	594.1	914.3	1028.9	3220.5	4303.2	4045.4	2011.6	752.5
80°	235.7	238.8	292.0	470.5	824.4	970.6	1909.6	2633.9	1908.1	533.8	248.8
82.5°	129.2	144.3	178.4	304.6	661.5	896.7	1160.6	1333.0	715.8	237.8	129.7
85°	64.8	68.9	100.5	177.9	432.3	741.9	808.3	764.5	369.5	118.1	67.4
87.5°	19.1	24.1	41.7	68.9	175.4	386.5	449.9	403.6	142.3	42.7	14.1
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°	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7	2490.7
2.5°	2470.1	2461.0	2420.8	2384.6	2351.4	2316.2	2286.6	2260.4	2263.0	2263.5	2236.8
5°	2413.8	2393.2	2316.7	2245.4	2185.1	2108.6	2043.3	2001.1	1980.0	1951.8	1961.9
7.5°	2337.4	2297.6	2191.6	2073.0	1961.9	1862.8	1755.3	1681.4	1634.1	1588.4	1594.4
10°	2258.4	2194.6	2040.3	1883.5	1739.7	1581.4	1444.1	1326.5	1239.0	1206.4	1184.8
12.5°	2177.5	2093.6	1897.5	1688.9	1490.4	1300.9	1106.3	980.2	883.7	832.4	838.9
15°	2103.6	2001.6	1748.7	1494.4	1236.5	1010.8	816.8	696.7	629.3	615.3	623.3
17.5°	2035.3	1901.6	1609.5	1305.4	1004.3	758.0	613.7	545.9	518.7	511.2	510.7
20°	1964.9	1816.6	1453.2	1103.3	782.6	587.6	503.7	472.0	467.0	470.0	470.5
22.5°	1893.5	1711.5	1292.3	902.8	623.3	480.5	440.3	431.8	435.8	442.8	443.8
25°	1827.7	1619.1	1137.5	726.8	497.6	422.2	402.6	402.6	411.7	422.2	422.7
27.5°	1773.4	1529.6	983.2	577.1	416.7	380.0	373.5	377.0	389.6	397.6	398.1
30°	1728.6	1446.1	837.4	462.4	366.4	346.3	344.8	350.9	359.9	367.4	367.9
32.5°	1695.0	1372.8	701.2	388.6	331.8	320.7	320.2	324.7	329.7	331.8	333.8
35°	1681.9	1311.9	576.5	341.8	308.6	301.6	301.6	301.1	303.1	304.1	305.1
37.5°	1692.4	1265.2	480.0	311.6	291.5	286.5	283.5	280.5	279.5	279.5	280.0
40°	1737.2	1240.6	408.2	292.0	279.5	271.9	266.4	262.9	259.4	260.4	261.4
42.5°	1832.2	1245.1	359.4	279.0	268.9	258.4	250.3	246.3	243.8	246.8	246.3
45°	1983.5	1290.3	328.2	269.9	258.4	244.8	237.3	233.2	233.2	237.8	239.3
47.5°	2195.1	1376.8	311.6	262.9	250.3	234.2	226.7	223.7	224.7	232.2	232.7
50°	2453.5	1527.1	308.6	259.4	246.3	226.7	218.2	215.1	217.7	225.7	226.7
52.5°	2738.5	1720.6	323.2	259.9	242.8	222.2	211.1	206.6	209.1	215.6	217.7
55°	3076.3	1962.9	360.9	261.9	237.8	219.7	206.1	196.0	199.1	203.6	204.1
57.5°	3421.1	2268.5	427.3	262.4	233.7	215.1	197.5	184.5	184.5	187.5	189.0
60°	3842.3	2601.3	514.7	262.9	234.2	208.6	186.0	171.4	169.4	170.9	171.4
62.5°	4260.5	2879.7	529.3	261.4	239.3	202.1	173.4	158.3	154.8	154.3	153.3
65°	4445.0	2827.9	433.8	254.3	244.8	198.0	163.4	145.8	139.7	137.7	137.7
67.5°	4144.4	2392.1	326.2	244.8	241.3	194.0	153.8	135.2	128.2	124.2	124.2
69°	3861.9	2127.7	293.0	238.3	232.2	187.5	147.8	129.7	121.1	116.6	115.1
70°	3643.8	1945.8	279.0	232.7	223.7	180.0	143.3	125.7	116.1	111.1	110.1
72.5°	2907.9	1526.6	244.3	211.6	190.5	151.3	127.2	113.1	104.1	98.5	97.0
75°	1675.9	827.4	202.6	184.0	153.3	117.6	107.6	98.5	91.5	86.5	84.9
77.5°	515.7	319.7	146.8	145.3	112.6	91.0	86.0	82.4	77.4	71.9	70.9
80°	217.1	162.9	99.5	98.0	74.9	63.3	61.8	61.3	59.3	54.8	53.3
82.5°	119.1	92.0	69.4	60.3	45.2	36.7	38.2	38.7	37.2	32.7	29.7
85°	58.3	50.3	33.7	27.1	20.6	13.1	12.6	15.1	14.1	10.1	11.1
87.5°	11.6	14.1	9.0	4.0	2.0	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)