

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: P522720

Luminaire Tested: **GALN-SA3D-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18364 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184
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

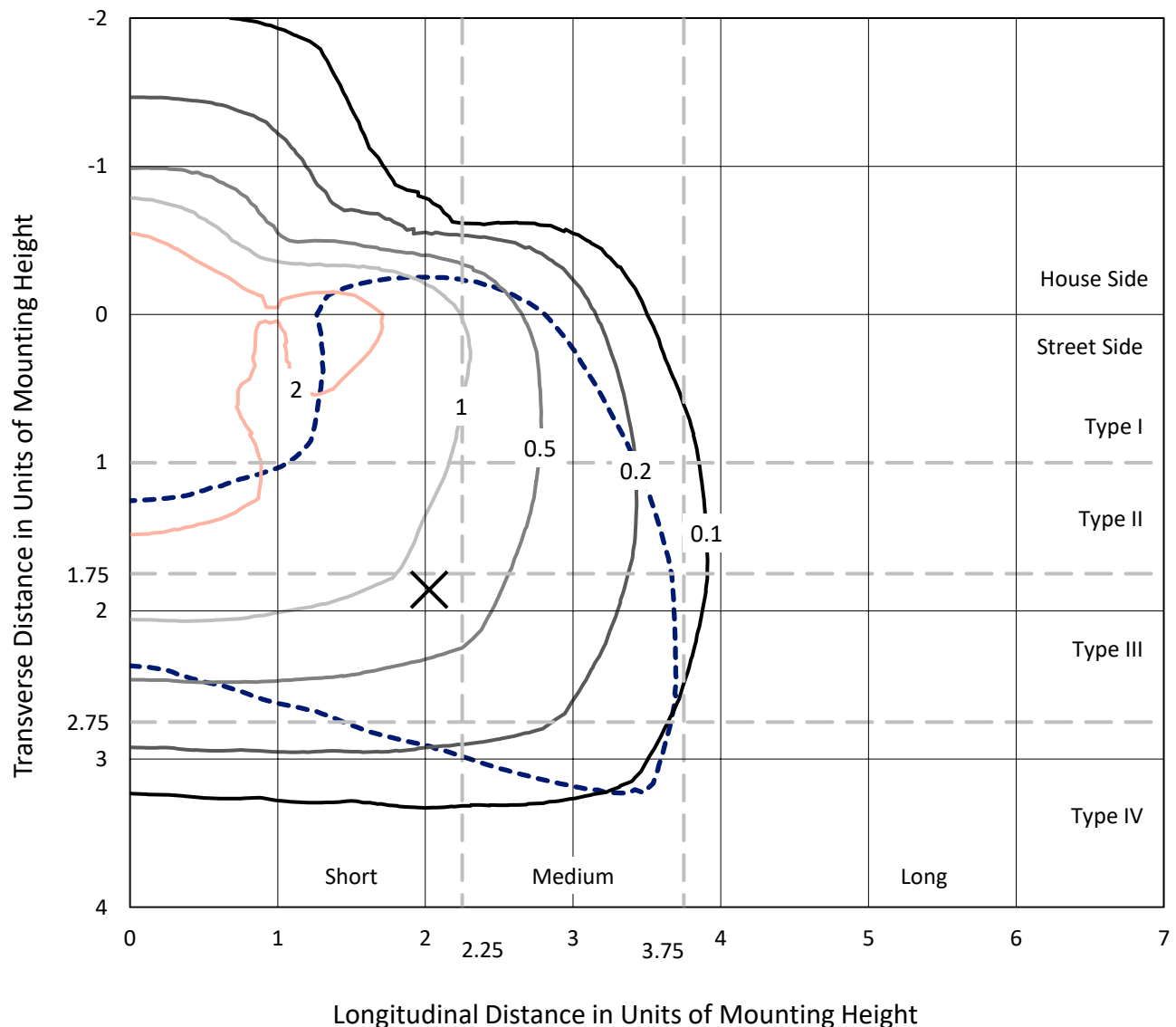


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

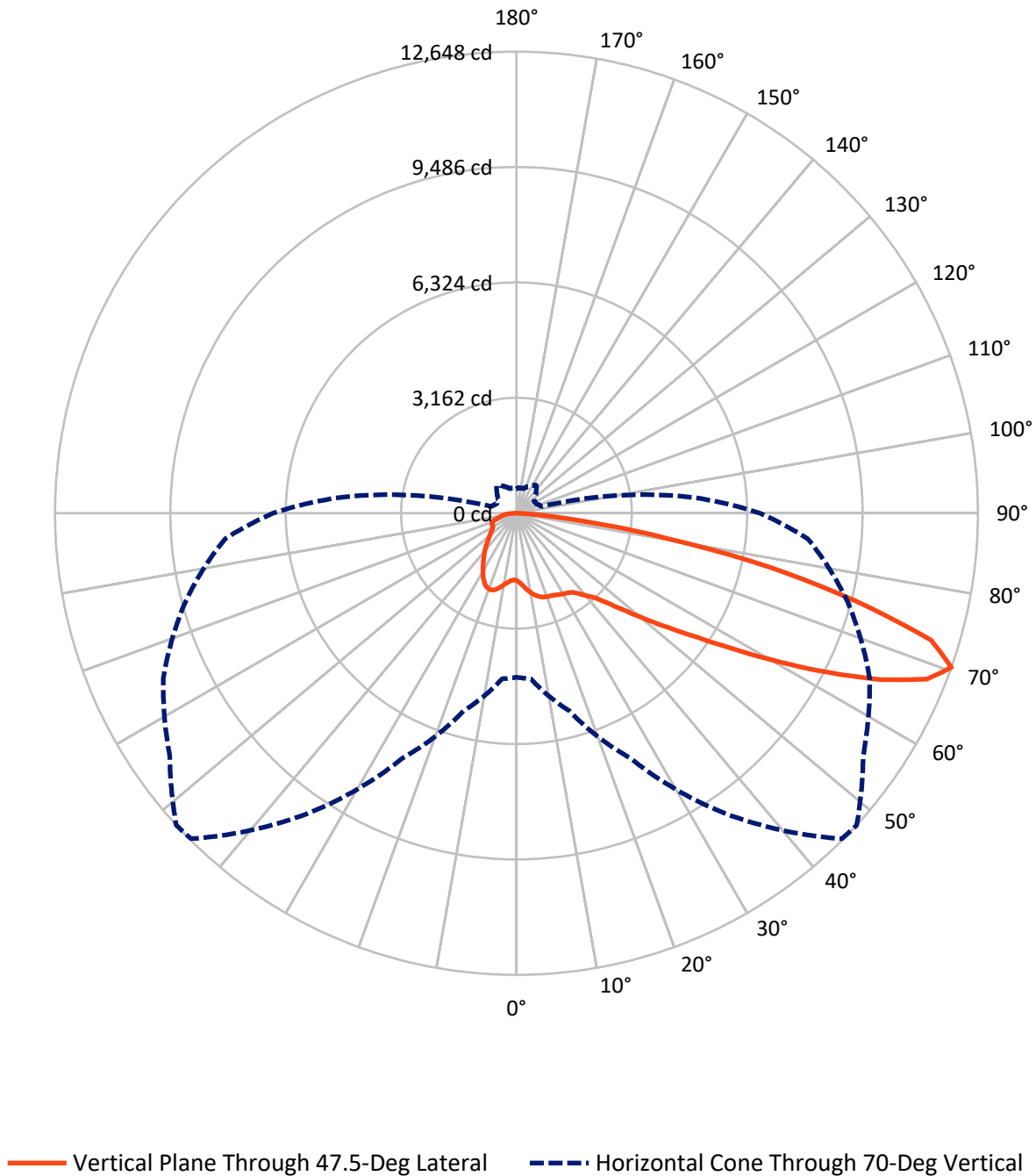


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4158.0	0.0	4158.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14206.0	0.0	14206.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	18364.0	0.0	18364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	1.0
10°-20°	635.3	3.5
20°-30°	1056.5	5.8
30°-40°	1497.4	8.2
40°-50°	2210.5	12.0
50°-60°	3828.6	20.8
60°-70°	5408.0	29.4
70°-80°	3108.8	16.9
80°-90°	428.9	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°	18364.0	100.0
0°-180°	18364.0	100.0

Coefficient of Utilization



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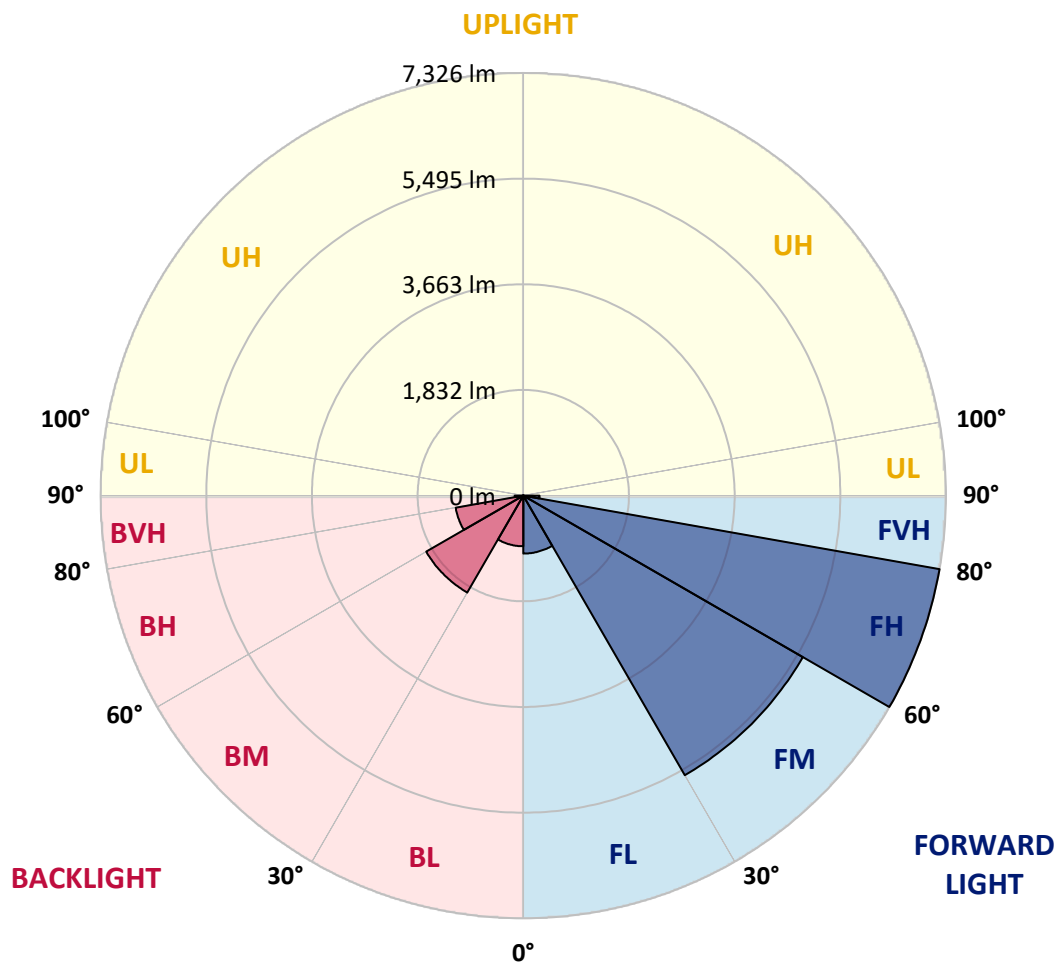
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1004.2	5.5			
FM	(30°-60°)	5595.2	30.5			
FH	(60°-80°)	7326.5	39.9			G3/7500
FVH	(80°-90°)	280.2	1.5			G3/500
BL	(0°-30°)	877.6	4.8	B2/1000		
BM	(30°-60°)	1941.3	10.6	B2/2500		
BH	(60°-80°)	1190.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	148.7	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5
2.5°	1962.4	1955.6	1954.6	1939.8	1932.0	1917.2	1911.3	1897.6	1880.9	1864.2	1848.4
5°	2116.7	2116.7	2109.8	2089.2	2056.8	2023.4	2008.6	1982.1	1934.9	1896.6	1864.2
7.5°	2274.9	2276.9	2263.1	2232.7	2186.5	2132.4	2118.7	2079.4	2012.5	1956.5	1908.4
10°	2411.5	2411.5	2392.8	2351.6	2293.6	2234.6	2220.9	2176.7	2102.0	2032.2	1969.3
12.5°	2515.7	2515.7	2491.1	2437.1	2374.2	2321.1	2305.4	2263.1	2193.4	2115.7	2036.1
15°	2583.5	2578.6	2551.1	2490.1	2429.2	2383.0	2372.2	2336.8	2273.0	2194.3	2104.9
17.5°	2586.4	2584.5	2557.9	2506.8	2453.8	2422.3	2415.4	2391.9	2341.7	2267.1	2172.7
20°	2529.4	2533.4	2515.7	2479.3	2453.8	2440.0	2437.1	2429.2	2393.8	2324.1	2229.7
22.5°	2468.5	2475.4	2458.7	2439.0	2437.1	2450.8	2452.8	2454.8	2432.2	2364.3	2277.9
25°	2453.8	2458.7	2442.0	2424.3	2435.1	2471.5	2479.3	2487.2	2469.5	2412.5	2334.9
27.5°	2528.5	2524.5	2492.1	2453.8	2460.7	2509.8	2520.6	2529.4	2520.6	2471.5	2405.6
30°	2739.7	2727.0	2662.1	2550.1	2514.7	2549.1	2559.9	2584.5	2584.5	2548.1	2482.3
32.5°	3093.5	3068.9	2950.0	2729.9	2607.1	2586.4	2597.2	2637.5	2658.2	2629.7	2557.9
35°	3522.9	3497.4	3327.4	3031.6	2776.1	2661.1	2658.2	2703.4	2758.4	2694.5	2601.2
37.5°	3954.3	3927.8	3723.4	3391.3	3022.8	2818.4	2800.7	2816.4	2840.0	2723.0	2661.1
40°	4385.7	4354.3	4175.4	3793.2	3324.4	3026.7	2980.5	2909.7	2899.9	2816.4	2777.1
42.5°	4813.2	4784.7	4694.3	4244.2	3686.1	3230.1	3159.3	3037.5	3074.8	3024.7	2990.3
45°	5244.6	5246.6	5150.3	4750.3	4122.4	3605.5	3510.2	3319.5	3408.0	3389.3	3408.9
47.5°	5626.9	5622.0	5587.6	5241.7	4663.8	4089.0	3966.1	3745.0	3896.4	3965.2	4115.5
50°	5997.4	5994.4	5996.4	5798.8	5292.8	4663.8	4528.2	4296.3	4637.3	4876.1	5145.4
52.5°	6528.0	6544.7	6425.8	6373.7	6057.3	5342.9	5193.5	4953.7	5512.9	5889.3	6415.0
55°	7060.6	7046.9	6953.5	7007.6	6857.2	6146.7	5990.5	5799.8	6487.7	6899.5	7689.5
57.5°	7374.1	7379.0	7474.3	7738.7	7844.8	7149.1	7007.6	6860.2	7583.4	7875.3	8823.6
60°	7656.1	7678.7	7952.9	8452.1	8740.0	8380.4	8254.6	8111.1	8588.7	8704.7	9808.2
62.5°	7744.6	7814.3	8292.9	9039.8	9612.7	9769.9	9613.6	9297.2	9545.8	9500.6	10475.5
65°	7303.3	7398.7	8256.6	9259.9	10391.9	11088.7	10989.4	10401.8	10361.5	10089.3	10584.5
67.5°	6141.8	6237.1	7338.7	8798.0	10714.3	12230.5	12131.3	11207.6	10856.7	10144.3	9759.1
70°	4493.8	4553.8	5607.2	7407.5	10066.7	12613.8	12648.2	11600.6	10679.9	9396.5	8012.8
72.5°	2589.4	2722.0	3460.0	5211.2	8224.1	11644.9	11883.7	10783.0	9561.6	7838.9	5602.3
75°	1113.4	1116.3	1599.8	2874.4	5569.9	9360.1	9591.0	8938.5	7508.7	5420.5	2991.3
77.5°	529.7	539.5	703.6	1283.4	3066.0	6467.1	7090.1	6314.8	4802.4	2604.1	1130.1
80°	343.9	350.8	430.4	636.8	1503.5	3749.9	4184.3	3642.8	2118.7	930.6	487.4
82.5°	208.3	210.3	287.9	389.1	827.4	1698.1	2001.7	1581.1	904.1	557.2	286.9
85°	126.8	127.7	174.9	240.8	502.2	586.7	602.4	597.5	530.7	364.6	153.3
87.5°	60.9	62.9	90.4	114.0	197.5	181.8	172.0	199.5	250.6	196.5	65.8
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°	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5	1843.5
2.5°	1841.6	1838.6	1831.7	1828.8	1826.8	1827.8	1826.8	1826.8	1827.8	1827.8	1827.8
5°	1850.4	1845.5	1834.7	1834.7	1840.6	1854.3	1867.1	1876.9	1887.7	1886.8	1886.8
7.5°	1888.7	1879.9	1867.1	1871.0	1885.8	1907.4	1930.0	1951.6	1973.2	1975.2	1974.2
10°	1944.7	1935.9	1922.1	1927.1	1950.6	1983.1	2011.6	2043.0	2066.6	2073.5	2071.5
12.5°	2008.6	1990.9	1979.1	1992.9	2030.2	2073.5	2101.0	2124.6	2141.3	2151.1	2147.2
15°	2073.5	2056.8	2043.0	2071.5	2116.7	2157.0	2170.8	2174.7	2177.6	2187.5	2185.5
17.5°	2136.4	2113.8	2108.9	2146.2	2189.4	2207.1	2199.3	2182.6	2169.8	2177.6	2176.7
20°	2192.4	2174.7	2172.7	2210.1	2226.8	2210.1	2176.7	2147.2	2124.6	2126.5	2125.6
22.5°	2245.4	2231.7	2233.7	2249.4	2222.8	2165.8	2110.8	2070.5	2046.0	2050.9	2053.8
25°	2304.4	2290.6	2295.6	2270.0	2182.6	2083.3	2003.7	1969.3	1959.5	1969.3	1976.2
27.5°	2381.1	2372.2	2369.3	2271.0	2110.8	1961.4	1871.0	1858.3	1867.1	1888.7	1899.5
30°	2463.6	2463.6	2447.9	2254.3	2012.5	1815.0	1736.4	1738.4	1768.8	1799.3	1810.1
32.5°	2543.2	2559.9	2510.8	2209.1	1885.8	1672.5	1612.6	1614.6	1641.1	1678.4	1688.3
35°	2609.0	2657.2	2564.8	2126.5	1736.4	1552.6	1507.4	1480.9	1481.9	1510.4	1518.3
37.5°	2699.4	2788.9	2596.3	2003.7	1577.2	1450.4	1399.3	1353.2	1322.7	1310.9	1310.9
40°	2856.7	2988.4	2604.1	1821.9	1426.9	1353.2	1280.4	1225.4	1166.5	1113.4	1103.6
42.5°	3123.0	3289.1	2588.4	1612.6	1291.3	1246.0	1175.3	1107.5	1025.9	951.2	945.3
45°	3594.7	3680.2	2546.1	1395.4	1170.4	1142.9	1074.1	1000.4	913.9	847.1	842.2
47.5°	4350.4	4229.5	2490.1	1202.8	1060.3	1052.5	999.4	913.9	827.4	781.2	776.3
50°	5453.9	5094.3	2482.3	1063.3	971.9	975.8	932.6	854.0	778.3	740.0	734.1
52.5°	6782.5	6138.9	2534.4	965.0	894.2	909.0	887.4	814.6	747.8	715.4	709.5
55°	8071.8	7078.3	2565.8	888.4	821.5	849.0	852.0	791.1	730.1	697.7	693.8
57.5°	9118.4	7785.8	2426.3	818.6	758.6	800.9	822.5	777.3	721.3	696.7	692.8
60°	9846.5	8120.0	2029.3	756.7	712.4	762.6	811.7	778.3	742.9	745.9	747.8
62.5°	10078.5	7971.6	1522.2	710.5	681.0	749.8	829.4	818.6	782.2	804.8	808.8
65°	9694.2	7358.4	1103.6	674.1	653.5	758.6	882.5	848.1	768.5	785.2	785.2
67.5°	8407.9	6339.3	858.9	640.7	622.0	775.3	935.5	845.1	736.0	755.7	738.0
70°	6669.5	4903.6	715.4	603.4	588.6	750.8	940.4	814.6	697.7	701.6	668.2
72.5°	4426.0	3224.2	615.2	568.0	537.5	675.1	900.1	775.3	660.4	637.8	604.4
75°	2168.8	1607.7	536.5	523.8	470.7	587.6	845.1	738.0	620.1	584.7	566.0
77.5°	840.2	684.0	457.9	467.8	409.8	517.9	772.4	684.9	567.0	518.9	504.1
80°	407.8	388.2	375.4	390.1	337.1	441.2	705.6	638.7	517.9	464.8	443.2
82.5°	253.5	239.8	287.9	303.7	259.4	402.9	669.2	599.4	456.0	385.2	367.5
85°	128.7	137.6	192.6	207.3	185.7	320.4	551.3	450.1	329.2	273.2	275.2
87.5°	49.1	65.8	101.2	109.1	99.3	169.0	303.7	262.4	211.3	143.5	132.7
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)