

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: P522765

Luminaire Tested: **GALN-SA5A-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522765
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-SA5A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18212 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 154
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

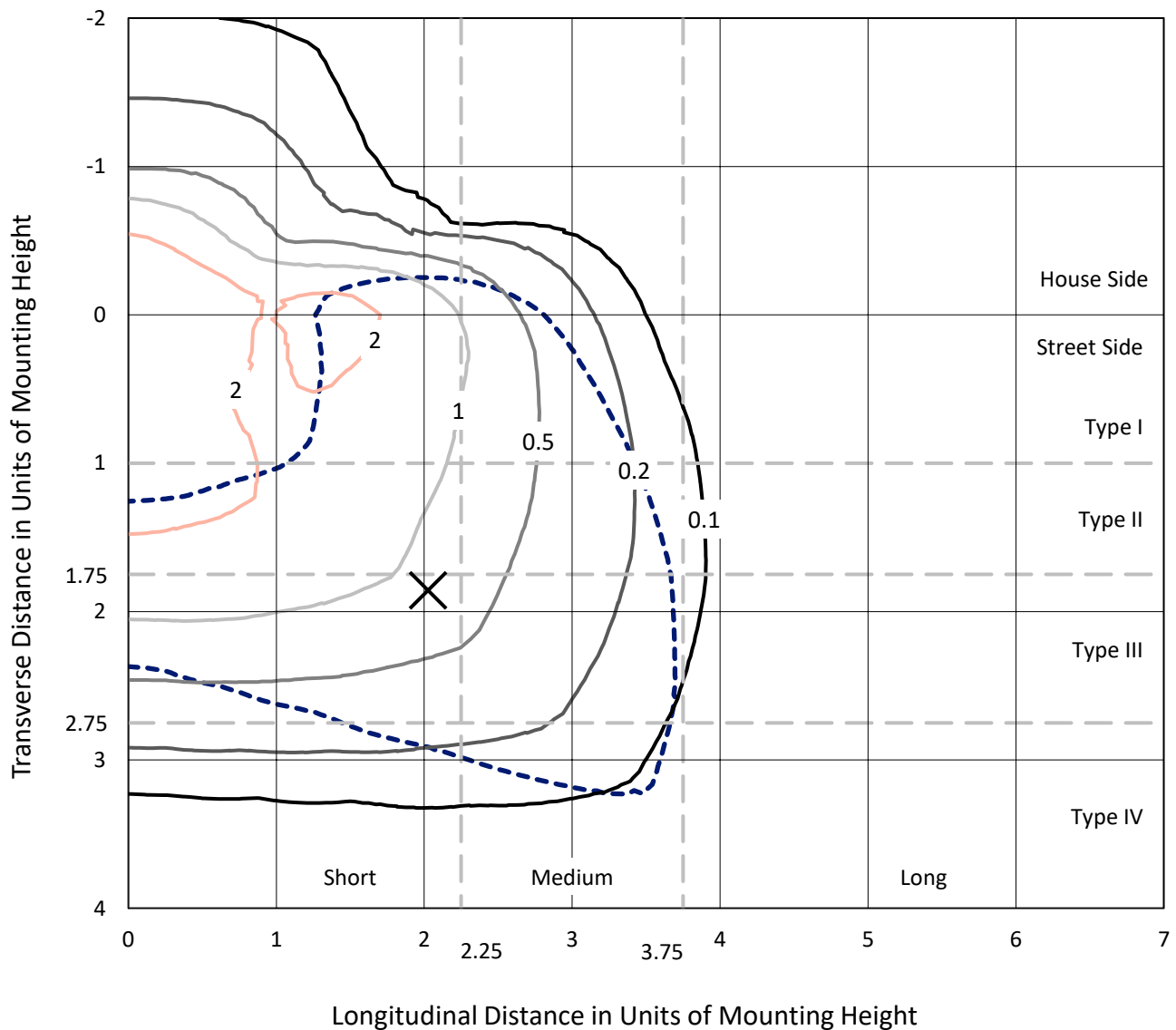


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

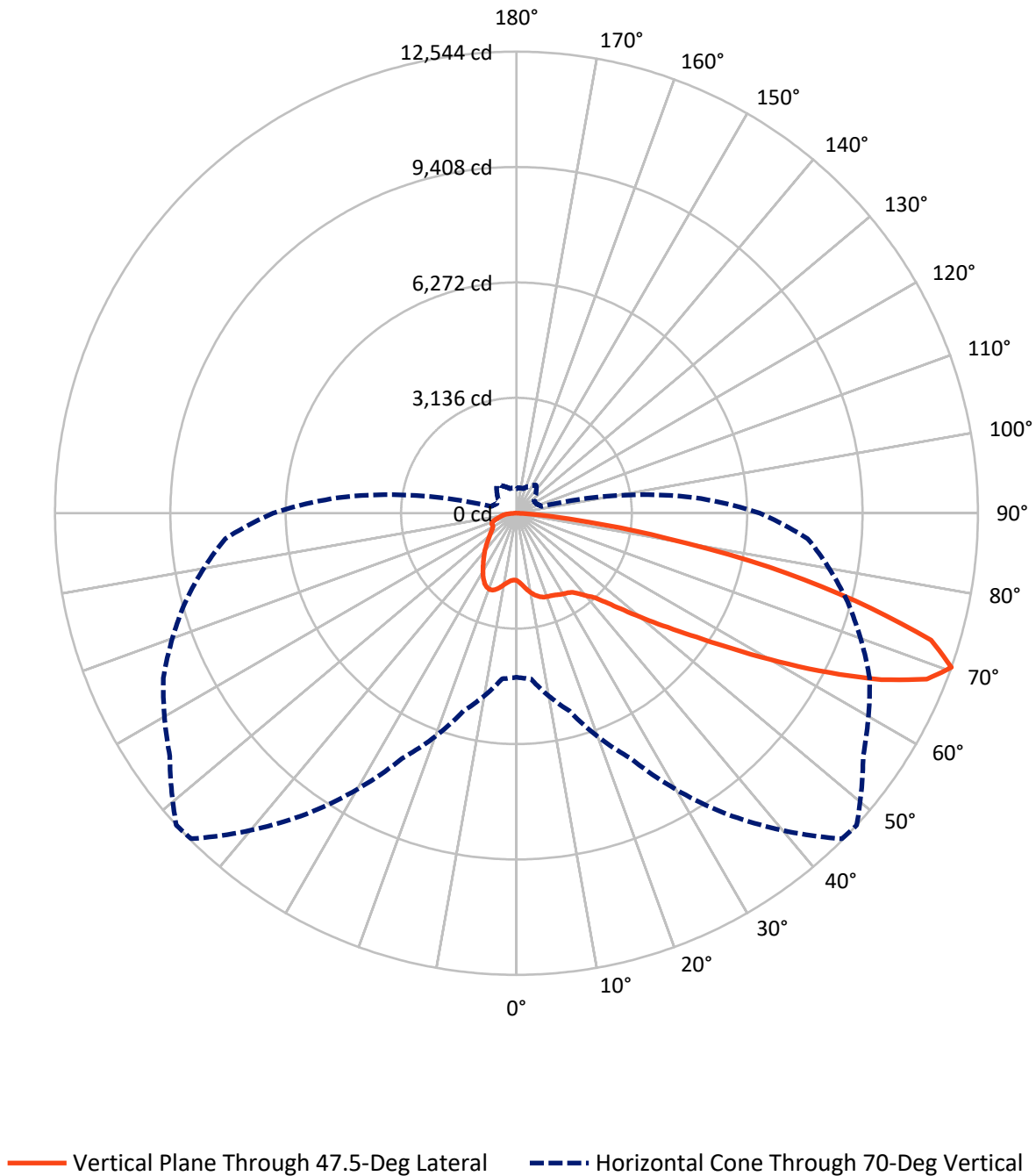


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4123.6	0.0	4123.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14088.5	0.0	14088.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	18212.0	0.0	18212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.5	1.0
10°-20°	630.0	3.5
20°-30°	1047.7	5.8
30°-40°	1485.0	8.2
40°-50°	2192.2	12.0
50°-60°	3796.9	20.8
60°-70°	5363.3	29.4
70°-80°	3083.1	16.9
80°-90°	425.4	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°	18212.0	100.0
0°-180°	18212.0	100.0

Coefficient of Utilization



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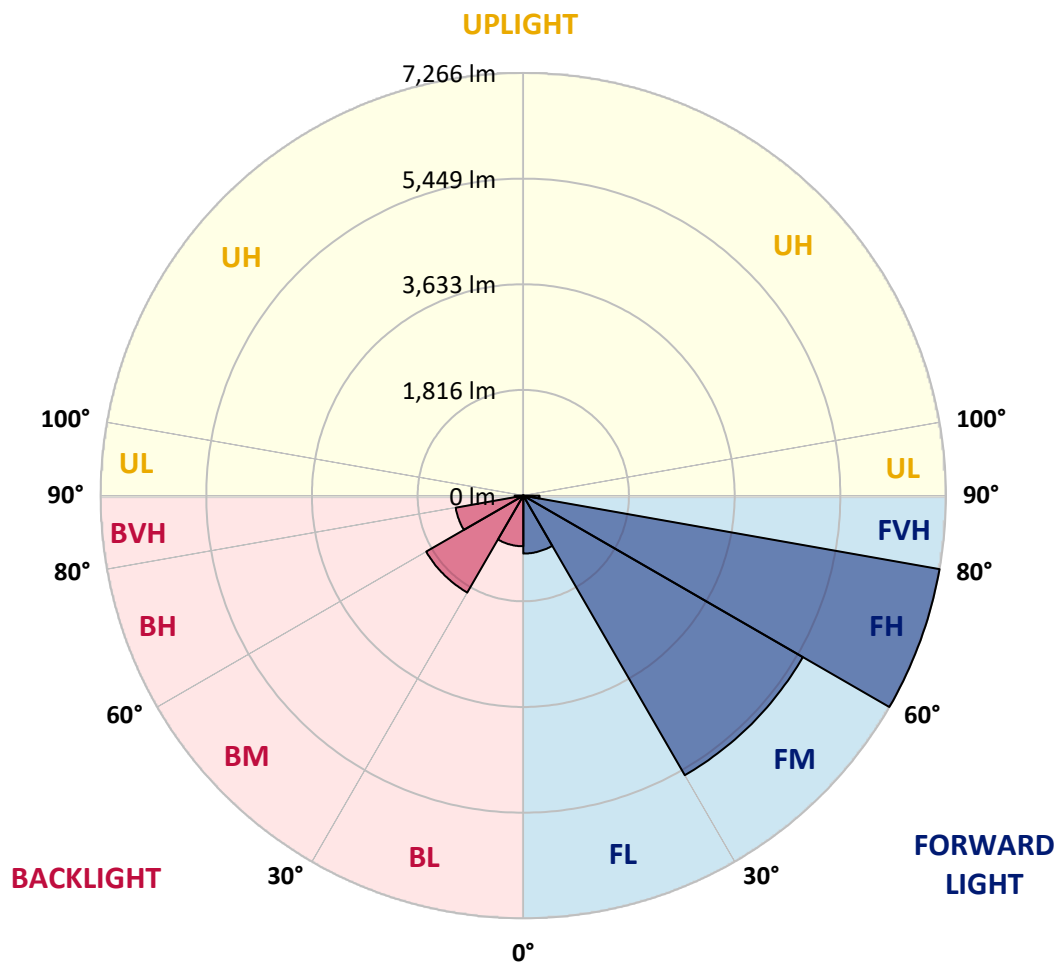
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	995.9	5.5			
FM	(30°-60°)	5548.8	30.5			
FH	(60°-80°)	7265.8	39.9			G3/7500
FVH	(80°-90°)	277.9	1.5			G3/500
BL	(0°-30°)	870.3	4.8	B2/1000		
BM	(30°-60°)	1925.2	10.6	B2/2500		
BH	(60°-80°)	1180.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	147.5	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°	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3
2.5°	1946.2	1939.4	1938.4	1923.8	1916.0	1901.4	1895.5	1881.9	1865.3	1848.7	1833.1
5°	2099.2	2099.2	2092.4	2071.9	2039.7	2006.6	1992.0	1965.7	1918.9	1880.9	1848.7
7.5°	2256.1	2258.0	2244.4	2214.2	2168.4	2114.8	2101.1	2062.2	1995.9	1940.3	1892.6
10°	2391.6	2391.6	2373.0	2332.1	2274.6	2216.1	2202.5	2158.6	2084.6	2015.4	1953.0
12.5°	2494.9	2494.9	2470.5	2416.9	2354.5	2301.9	2286.3	2244.4	2175.2	2098.2	2019.3
15°	2562.1	2557.2	2529.9	2469.5	2409.1	2363.3	2352.6	2317.5	2254.1	2176.2	2087.5
17.5°	2565.0	2563.1	2536.8	2486.1	2433.5	2402.3	2395.5	2372.1	2322.4	2248.3	2154.7
20°	2508.5	2512.4	2494.9	2458.8	2433.5	2419.8	2416.9	2409.1	2374.0	2304.8	2211.3
22.5°	2448.1	2454.9	2438.3	2418.8	2416.9	2430.5	2432.5	2434.4	2412.0	2344.8	2259.0
25°	2433.5	2438.3	2421.8	2404.2	2414.9	2451.0	2458.8	2466.6	2449.1	2392.5	2315.5
27.5°	2507.5	2503.6	2471.5	2433.5	2440.3	2489.0	2499.7	2508.5	2499.7	2451.0	2385.7
30°	2717.1	2704.4	2640.1	2529.0	2493.9	2528.0	2538.7	2563.1	2563.1	2527.0	2461.7
32.5°	3067.9	3043.5	2925.6	2707.3	2585.5	2565.0	2575.7	2615.7	2636.2	2607.9	2536.8
35°	3493.8	3468.4	3299.8	3006.5	2753.1	2639.1	2636.2	2681.0	2735.6	2672.2	2579.6
37.5°	3921.6	3895.3	3692.6	3363.2	2997.7	2795.0	2777.5	2793.1	2816.5	2700.5	2639.1
40°	4349.4	4318.3	4140.9	3761.8	3296.9	3001.6	2955.8	2885.7	2875.9	2793.1	2754.1
42.5°	4773.4	4745.1	4655.5	4209.1	3655.6	3203.4	3133.2	3012.4	3049.4	2999.7	2965.6
45°	5201.2	5203.2	5107.6	4711.0	4088.3	3575.6	3481.1	3292.0	3379.8	3361.2	3380.7
47.5°	5580.3	5575.4	5541.3	5198.3	4625.2	4055.1	3933.3	3714.0	3864.1	3932.3	4081.4
50°	5947.7	5944.8	5946.7	5750.9	5249.0	4625.2	4490.8	4260.8	4598.9	4835.7	5102.8
52.5°	6474.0	6490.5	6372.6	6321.0	6007.2	5298.7	5150.5	4912.7	5467.3	5840.5	6361.9
55°	7002.2	6988.5	6896.0	6949.6	6800.4	6095.8	5940.9	5751.8	6434.0	6842.4	7625.9
57.5°	7313.1	7317.9	7412.5	7674.6	7779.9	7089.9	6949.6	6803.4	7520.6	7810.1	8750.5
60°	7592.8	7615.2	7887.1	8382.1	8667.7	8311.0	8186.3	8044.0	8517.6	8632.6	9727.0
62.5°	7680.5	7749.7	8224.3	8964.9	9533.1	9689.0	9534.1	9220.3	9466.8	9422.0	10388.8
65°	7242.9	7337.4	8188.2	9183.2	10305.9	10996.9	10898.5	10315.7	10275.7	10005.8	10496.9
67.5°	6091.0	6185.5	7278.0	8725.2	10625.6	12129.3	12030.9	11114.8	10766.9	10060.3	9678.3
70°	4456.6	4516.1	5560.8	7346.2	9983.3	12509.4	12543.5	11504.6	10591.5	9318.7	7946.5
72.5°	2568.0	2699.5	3431.4	5168.1	8156.1	11548.5	11785.3	10693.8	9482.4	7774.0	5555.9
75°	1104.2	1107.1	1586.6	2850.6	5523.8	9282.6	9511.7	8864.6	7446.6	5375.6	2966.5
77.5°	525.3	535.0	697.8	1272.8	3040.6	6413.5	7031.4	6262.5	4762.7	2582.6	1120.7
80°	341.1	347.9	426.9	631.5	1491.1	3718.9	4149.7	3612.7	2101.1	922.9	483.4
82.5°	206.6	208.6	285.5	385.9	820.6	1684.0	1985.2	1568.1	896.6	552.6	284.6
85°	125.7	126.7	173.5	238.8	498.0	581.8	597.4	592.5	526.3	361.6	152.0
87.5°	60.4	62.4	89.7	113.0	195.9	180.3	170.5	197.8	248.5	194.9	65.3
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°	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3
2.5°	1826.3	1823.4	1816.6	1813.6	1811.7	1812.7	1811.7	1811.7	1812.7	1812.7	1812.7
5°	1835.1	1830.2	1819.5	1819.5	1825.3	1839.0	1851.7	1861.4	1872.1	1871.1	1871.1
7.5°	1873.1	1864.3	1851.7	1855.6	1870.2	1891.6	1914.0	1935.5	1956.9	1958.9	1957.9
10°	1928.6	1919.9	1906.2	1911.1	1934.5	1966.7	1994.9	2026.1	2049.5	2056.3	2054.4
12.5°	1992.0	1974.4	1962.8	1976.4	2013.4	2056.3	2083.6	2107.0	2123.6	2133.3	2129.4
15°	2056.3	2039.7	2026.1	2054.4	2099.2	2139.1	2152.8	2156.7	2159.6	2169.4	2167.4
17.5°	2118.7	2096.3	2091.4	2128.4	2171.3	2188.9	2181.1	2164.5	2151.8	2159.6	2158.6
20°	2174.2	2156.7	2154.7	2191.8	2208.3	2191.8	2158.6	2129.4	2107.0	2108.9	2108.0
22.5°	2226.9	2213.2	2215.2	2230.8	2204.4	2147.9	2093.3	2053.4	2029.0	2033.9	2036.8
25°	2285.3	2271.7	2276.6	2251.2	2164.5	2066.1	1987.1	1953.0	1943.3	1953.0	1959.8
27.5°	2361.3	2352.6	2349.7	2252.2	2093.3	1945.2	1855.6	1842.9	1851.7	1873.1	1883.8
30°	2443.2	2443.2	2427.6	2235.6	1995.9	1800.0	1722.0	1724.0	1754.2	1784.4	1795.1
32.5°	2522.1	2538.7	2490.0	2190.8	1870.2	1658.7	1599.2	1601.2	1627.5	1664.5	1674.3
35°	2587.4	2635.2	2543.6	2108.9	1722.0	1539.8	1495.0	1468.7	1469.6	1497.9	1505.7
37.5°	2677.1	2765.8	2574.8	1987.1	1564.2	1438.4	1387.8	1342.0	1311.8	1300.1	1300.1
40°	2833.0	2963.6	2582.6	1806.8	1415.1	1342.0	1269.8	1215.3	1156.8	1104.2	1094.4
42.5°	3097.1	3261.8	2567.0	1599.2	1280.6	1235.7	1165.6	1098.3	1017.4	943.4	937.5
45°	3564.9	3649.7	2525.1	1383.9	1160.7	1133.4	1065.2	992.1	906.3	840.1	835.2
47.5°	4314.4	4194.5	2469.5	1192.9	1051.5	1043.7	991.1	906.3	820.6	774.8	769.9
50°	5408.8	5052.1	2461.7	1054.5	963.8	967.7	924.9	846.9	771.8	733.8	728.0
52.5°	6726.4	6088.0	2513.4	957.0	886.8	901.5	880.0	807.9	741.6	709.5	703.6
55°	8005.0	7019.7	2544.6	881.0	814.7	842.0	844.9	784.5	724.1	691.9	688.0
57.5°	9042.9	7721.4	2406.2	811.8	752.4	794.3	815.7	770.9	715.3	691.0	687.1
60°	9765.0	8052.8	2012.5	750.4	706.6	756.3	805.0	771.8	736.8	739.7	741.6
62.5°	9995.0	7905.6	1509.6	704.6	675.4	743.6	822.5	811.8	775.7	798.2	802.1
65°	9614.0	7297.5	1094.4	668.5	648.1	752.4	875.2	841.0	762.1	778.7	778.7
67.5°	8338.3	6286.9	851.8	635.4	616.9	768.9	927.8	838.1	729.9	749.4	731.9
70°	6614.3	4863.0	709.5	598.4	583.8	744.6	932.6	807.9	691.9	695.8	662.7
72.5°	4389.4	3197.5	610.1	563.3	533.1	669.5	892.7	768.9	654.9	632.5	599.4
75°	2150.8	1594.4	532.1	519.4	466.8	582.8	838.1	731.9	614.9	579.9	561.3
77.5°	833.2	678.3	454.1	463.9	406.4	513.6	766.0	679.3	562.3	514.6	499.9
80°	404.4	384.9	372.3	386.9	334.3	437.6	699.7	633.5	513.6	461.0	439.5
82.5°	251.4	237.8	285.5	301.1	257.3	399.6	663.7	594.5	452.2	382.0	364.5
85°	127.7	136.4	191.0	205.6	184.2	317.7	546.7	446.3	326.5	270.9	272.9
87.5°	48.7	65.3	100.4	108.2	98.4	167.6	301.1	260.2	209.5	142.3	131.6
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)