

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: P452478

Luminaire Tested: **GALN-SA3B-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13468 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

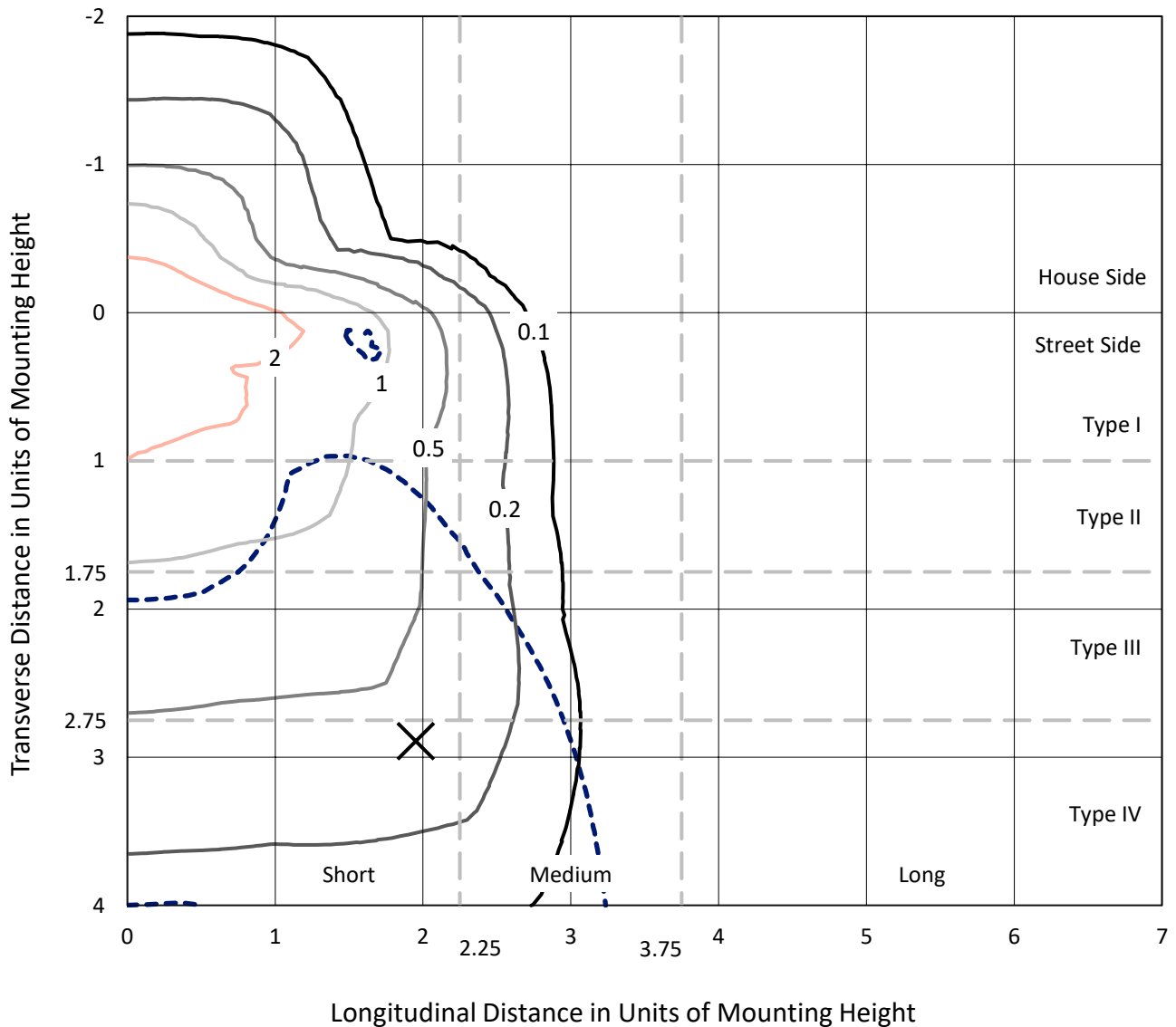
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

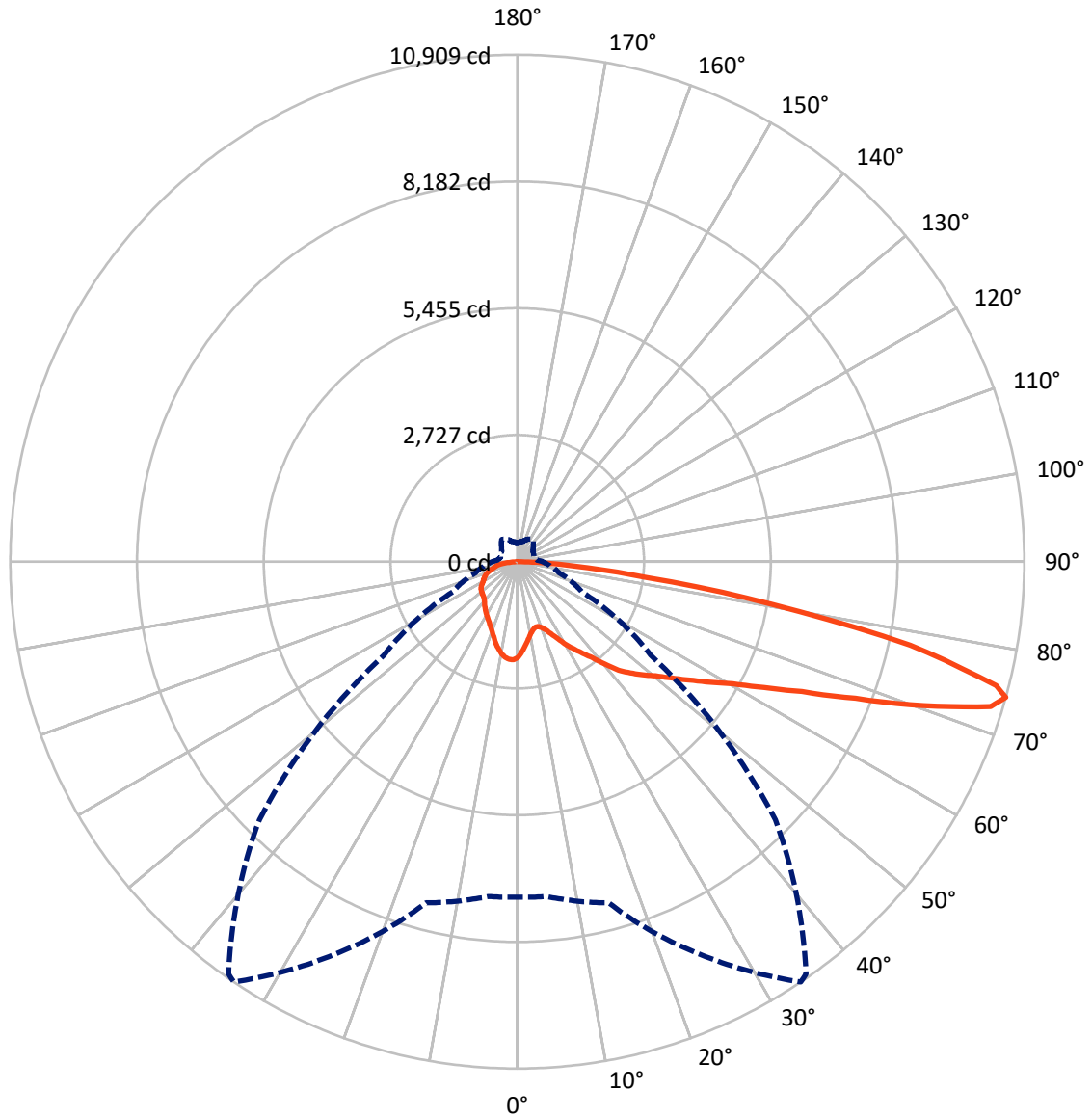
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2866.1	0.0	2866.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	10601.9	0.0	10601.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	13468.0	0.0	13468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	1.4
10°-20°	511.9	3.8
20°-30°	844.1	6.3
30°-40°	1264.3	9.4
40°-50°	1837.9	13.6
50°-60°	2567.2	19.1
60°-70°	3213.9	23.9
70°-80°	2657.7	19.7
80°-90°	384.0	2.9
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°	13468.0	100.0
0°-180°	13468.0	100.0

Coefficient of Utilization



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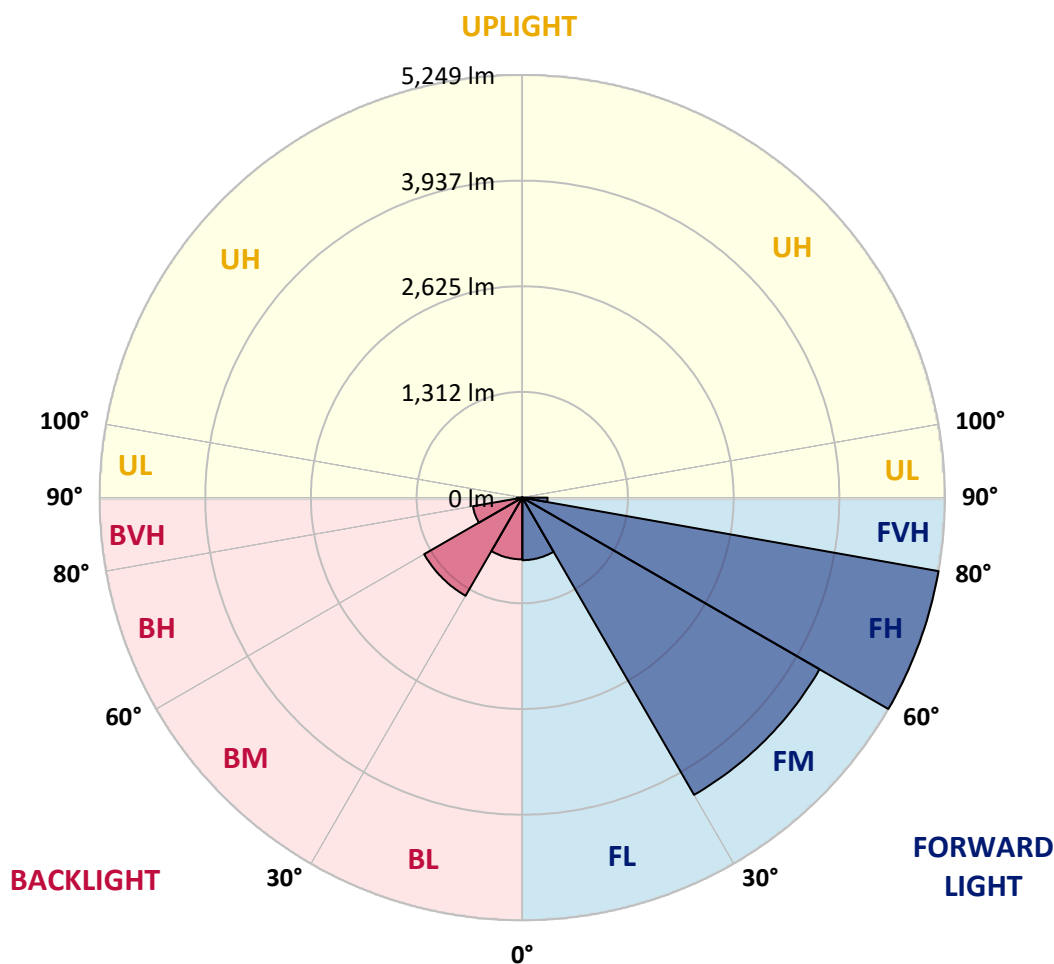
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.4	5.8			
FM (30°-60°)	4261.8	31.6			
FH (60°-80°)	5249.1	39.0			G3/7500
FVH (80°-90°)	314.6	2.3			G3/500
BL (0°-30°)	766.6	5.7	B2/1000		
BM (30°-60°)	1407.5	10.5	B2/2500		
BH (60°-80°)	622.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	69.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3
2.5°	1900.4	1910.1	1915.3	1933.9	1938.4	1944.4	1960.0	1980.9	2007.8	2031.7	2052.6
5°	1742.2	1757.1	1766.1	1782.5	1814.6	1817.5	1859.3	1907.1	1961.5	2012.3	2054.1
7.5°	1592.2	1608.6	1616.1	1645.9	1688.5	1695.2	1756.4	1831.7	1922.7	1999.6	2063.8
10°	1479.5	1487.8	1504.2	1526.6	1577.3	1581.8	1661.6	1762.3	1880.2	1993.6	2080.2
12.5°	1418.4	1422.8	1426.6	1450.5	1500.4	1507.2	1590.7	1704.9	1846.6	1998.1	2107.0
15°	1427.3	1428.8	1412.4	1416.9	1457.2	1466.9	1549.7	1666.8	1825.7	2009.3	2147.3
17.5°	1502.7	1497.5	1457.2	1436.3	1464.6	1469.1	1541.5	1651.9	1816.0	2030.2	2189.1
20°	1621.3	1613.9	1544.5	1498.2	1514.6	1518.3	1568.3	1663.1	1825.7	2064.5	2254.0
22.5°	1769.0	1766.1	1660.9	1604.9	1604.2	1604.2	1630.3	1703.4	1854.8	2111.5	2321.9
25°	1975.7	1960.0	1822.8	1750.4	1730.2	1728.8	1725.8	1769.8	1892.2	2161.5	2402.5
27.5°	2187.6	2160.8	2038.4	1927.2	1883.9	1878.7	1859.3	1863.8	1939.9	2218.2	2494.3
30°	2377.9	2360.7	2245.8	2122.7	2071.2	2059.3	2005.6	1980.9	2019.7	2320.4	2640.5
32.5°	2523.4	2512.9	2423.4	2311.5	2235.4	2233.1	2154.8	2134.6	2144.3	2444.3	2807.6
35°	2641.3	2645.0	2599.5	2502.5	2415.2	2402.5	2350.3	2324.9	2296.5	2623.3	3018.0
37.5°	2802.4	2810.6	2807.6	2724.1	2617.4	2620.4	2608.4	2566.6	2491.3	2823.3	3251.6
40°	2980.0	2986.0	2985.2	2953.1	2897.2	2900.2	2895.7	2847.9	2735.3	3077.7	3511.2
42.5°	3225.5	3197.1	3123.2	3155.3	3188.2	3202.3	3232.9	3187.4	3033.0	3349.3	3755.2
45°	3500.0	3446.3	3279.2	3294.1	3415.7	3442.6	3611.2	3548.5	3356.0	3661.2	4042.5
47.5°	3673.1	3620.2	3479.1	3476.2	3637.3	3663.4	3961.9	3938.7	3650.0	3997.7	4393.1
50°	3827.6	3820.1	3661.2	3699.2	3856.7	3895.5	4343.9	4322.3	3943.2	4394.6	4775.1
52.5°	4056.6	3996.2	3869.4	3947.7	4155.9	4206.6	4722.9	4659.5	4212.6	4745.3	5146.0
55°	4159.6	4145.4	4138.0	4205.9	4491.6	4528.2	5091.5	4946.0	4442.4	5042.3	5428.0
57.5°	4434.9	4408.8	4482.7	4528.9	4887.1	4943.0	5476.5	5245.2	4643.8	5278.0	5565.3
60°	4791.6	4777.4	4845.3	4928.8	5328.8	5413.8	5915.2	5500.4	4805.7	5396.7	5489.9
62.5°	5324.3	5322.8	5310.1	5489.2	5954.8	6033.1	6418.8	5748.8	4831.1	5307.9	5100.5
65°	6088.3	6061.5	5951.0	6146.5	6733.7	6825.5	6943.4	5887.6	4678.2	4852.0	4294.6
67.5°	6887.4	6885.9	6796.4	7050.1	7852.1	7946.9	7599.2	5857.0	4253.6	3930.5	3050.1
70°	7550.0	7517.9	7632.0	8308.0	9280.9	9390.6	8173.0	5496.6	3388.1	2595.7	1812.3
72.5°	7708.9	7710.4	7947.6	9278.0	10653.1	10670.2	8379.6	4455.1	2267.4	1431.8	906.5
74°	7219.4	7232.1	7599.9	9326.5	10909.0	10831.4	7851.4	3501.5	1533.3	934.9	653.6
75°	6589.7	6509.9	7041.8	9003.4	10643.4	10559.8	7232.9	2809.9	1169.9	746.9	572.3
77.5°	3523.2	3604.5	4425.2	6718.8	8646.7	8550.5	4904.2	1347.5	632.0	520.0	411.9
80°	1254.2	1383.3	1944.4	3515.7	5543.6	5573.5	2340.6	617.8	444.7	383.5	291.0
82.5°	511.8	526.0	834.9	1560.1	2815.1	2842.0	955.8	367.1	317.8	264.1	173.8
85°	200.0	205.9	369.3	701.3	1201.2	1279.6	330.5	194.0	195.5	151.5	88.8
87.5°	67.2	76.1	151.5	233.5	408.1	399.9	96.2	57.5	70.1	65.7	27.6
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°	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3	2056.3
2.5°	2063.0	2077.2	2086.9	2097.3	2107.0	2110.0	2107.8	2114.5	2115.2	2116.0	2116.7
5°	2075.0	2094.3	2113.0	2123.4	2127.9	2124.2	2111.5	2104.8	2098.8	2094.3	2095.8
7.5°	2091.4	2119.0	2136.1	2140.6	2128.7	2111.5	2080.2	2055.6	2039.9	2029.4	2028.7
10°	2116.7	2143.6	2157.8	2145.1	2112.3	2070.5	2021.2	1975.0	1939.9	1929.5	1928.7
12.5°	2148.8	2179.4	2178.7	2141.4	2083.9	2009.3	1929.5	1875.7	1828.0	1804.1	1813.8
15°	2190.6	2213.7	2192.1	2124.9	2033.9	1931.7	1833.2	1760.1	1706.4	1681.0	1682.5
17.5°	2239.1	2259.2	2201.8	2095.8	1963.8	1832.5	1718.3	1648.9	1606.4	1587.7	1586.2
20°	2299.5	2305.5	2201.8	2045.1	1873.5	1716.8	1607.9	1559.4	1535.5	1525.8	1528.8
22.5°	2364.4	2352.5	2189.9	1973.5	1754.9	1595.9	1522.8	1501.2	1489.2	1487.8	1489.2
25°	2437.6	2404.0	2165.2	1876.5	1631.0	1491.5	1449.0	1452.7	1454.9	1454.9	1460.2
27.5°	2527.1	2459.9	2124.2	1754.1	1486.3	1394.5	1382.6	1408.7	1420.6	1422.8	1426.6
30°	2645.0	2521.1	2056.3	1601.2	1363.2	1307.2	1328.1	1363.2	1376.6	1384.8	1383.3
32.5°	2785.3	2588.3	1964.5	1448.2	1263.9	1246.0	1271.4	1307.2	1322.1	1326.6	1320.6
35°	2950.1	2664.4	1843.7	1305.0	1177.4	1187.8	1217.7	1228.9	1242.3	1242.3	1245.3
37.5°	3127.7	2725.6	1695.9	1173.6	1110.2	1148.3	1169.9	1159.5	1153.5	1146.0	1149.8
40°	3308.3	2771.1	1504.2	1043.8	1043.1	1107.2	1113.2	1083.4	1059.5	1052.0	1048.3
42.5°	3465.7	2799.4	1331.1	943.1	979.7	1066.9	1071.4	1023.7	985.6	963.2	955.8
45°	3651.5	2832.3	1161.7	859.5	920.7	1034.9	1046.1	981.9	925.9	878.9	867.0
47.5°	3905.9	2906.9	1028.1	794.6	878.2	1014.7	1030.4	947.6	873.7	812.5	802.8
50°	4193.2	3009.1	924.4	750.6	845.4	996.8	1016.2	912.5	825.2	757.3	749.8
52.5°	4456.6	3064.3	834.9	711.0	813.3	964.0	997.6	887.1	777.5	702.1	695.4
55°	4600.6	2974.8	746.9	672.3	769.2	921.5	971.4	852.1	731.2	673.0	663.3
57.5°	4620.0	2789.7	667.0	630.5	723.0	869.2	922.9	809.5	701.3	652.9	644.6
60°	4470.0	2513.7	605.1	596.1	676.0	810.3	868.5	772.2	670.8	630.5	622.3
62.5°	4096.9	2213.7	561.8	564.8	628.2	748.4	828.2	736.4	641.7	605.8	598.4
65°	3455.3	1827.2	520.0	532.7	585.7	699.9	791.6	706.6	612.6	587.2	580.5
67.5°	2400.3	1319.1	485.7	499.2	545.4	650.6	749.1	674.5	579.7	566.3	555.9
70°	1328.8	811.8	445.4	461.1	503.6	595.4	701.3	626.0	532.0	526.0	511.1
72.5°	698.4	517.1	399.9	417.1	446.9	524.5	628.2	573.0	485.0	459.6	440.2
74°	545.4	423.8	369.3	387.2	407.4	482.7	585.0	535.0	451.4	421.6	406.6
75°	475.3	377.5	343.2	366.3	384.3	454.4	551.4	508.1	432.7	404.4	391.0
77.5°	335.8	282.8	280.5	308.1	317.8	398.4	496.9	462.6	385.7	355.9	343.2
80°	235.8	211.9	222.3	239.5	252.9	352.2	461.1	399.9	316.4	281.3	276.8
82.5°	153.7	138.8	158.9	174.6	179.1	259.6	372.3	303.7	230.6	187.3	173.8
85°	70.9	69.4	91.0	88.8	88.0	126.8	220.9	177.6	132.8	99.2	93.3
87.5°	17.9	17.2	22.4	18.7	22.4	19.4	20.1	5.2	0.7	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)