

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: P453174

Luminaire Tested: **GALN-SA4A-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453174
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-SA4A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 14344 lumens
Efficiency: N/A
Efficacy: 118.5 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 (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

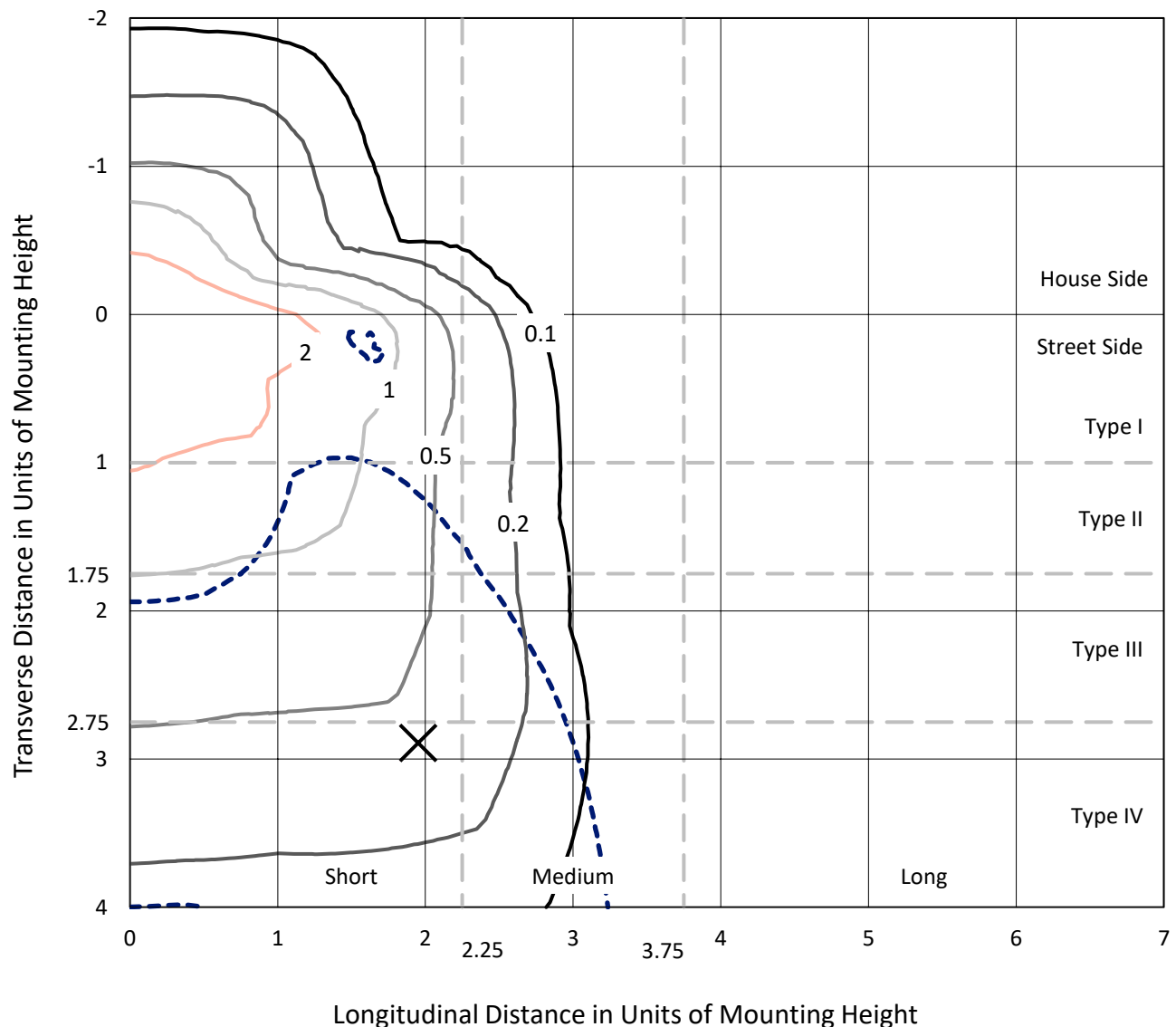


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

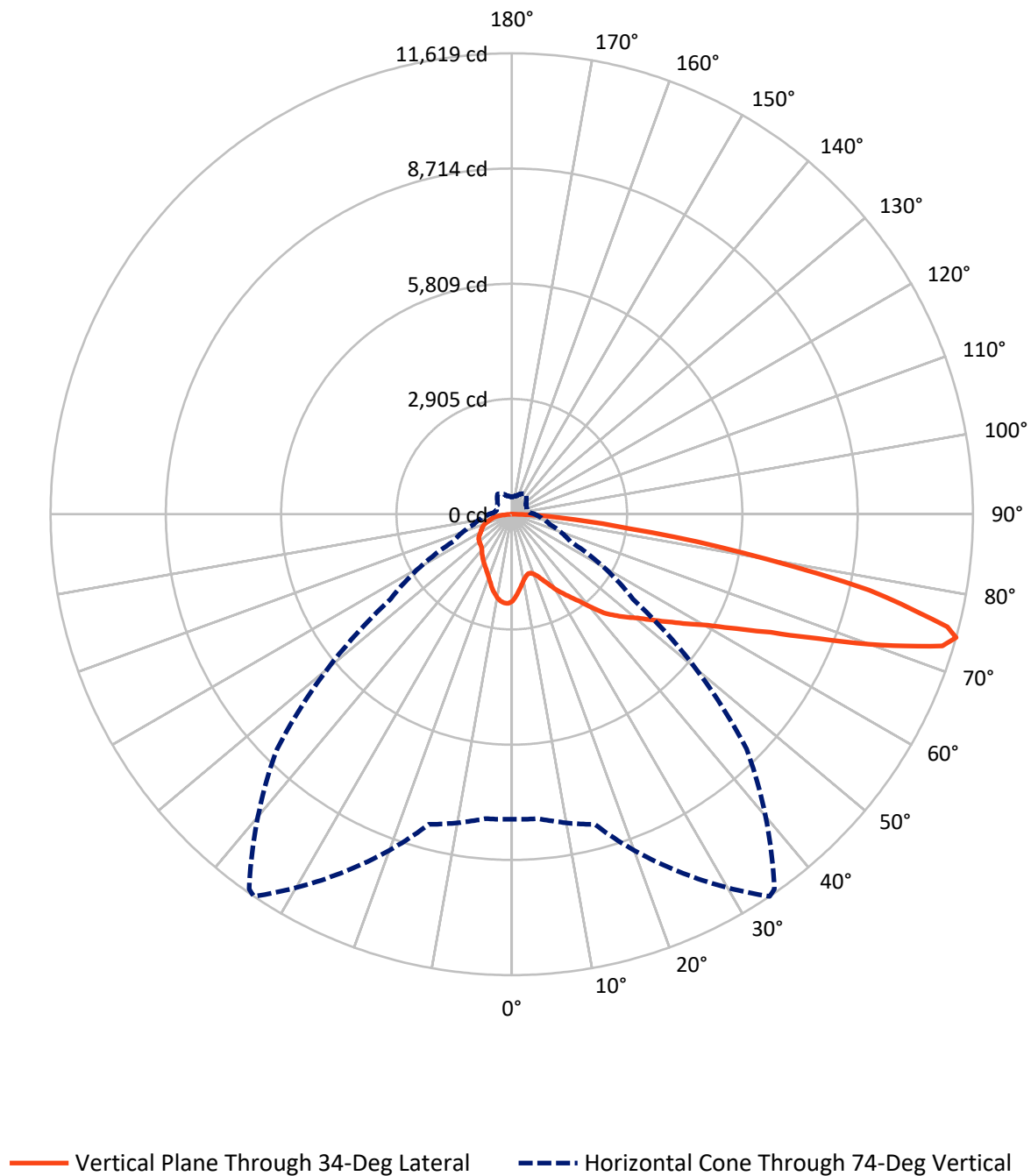


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3052.5	0.0	3052.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	11291.5	0.0	11291.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	14344.0	0.0	14344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	1.4
10°-20°	545.2	3.8
20°-30°	898.9	6.3
30°-40°	1346.5	9.4
40°-50°	1957.5	13.6
50°-60°	2734.1	19.1
60°-70°	3423.0	23.9
70°-80°	2830.5	19.7
80°-90°	409.0	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°	14344.0	100.0
0°-180°	14344.0	100.0

Coefficient of Utilization



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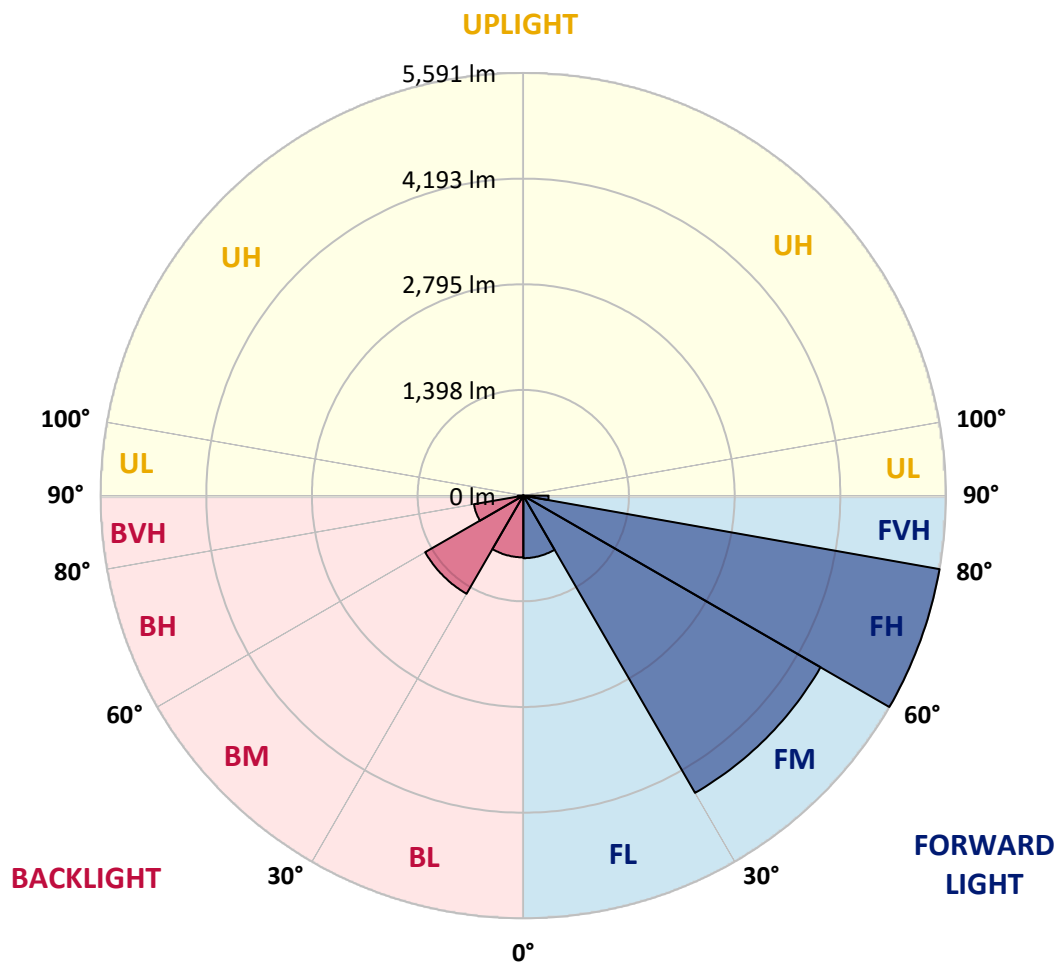
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	826.9	5.8			
FM	(30°-60°)	4539.0	31.6			
FH	(60°-80°)	5590.5	39.0			G3/7500
FVH	(80°-90°)	335.1	2.3			G3/500
BL	(0°-30°)	816.5	5.7	B2/1000		
BM	(30°-60°)	1499.1	10.5	B2/2500		
BH	(60°-80°)	663.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	73.9	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°	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0
2.5°	2024.0	2034.3	2039.9	2059.7	2064.5	2070.8	2087.5	2109.8	2138.4	2163.8	2186.1
5°	1855.5	1871.4	1880.9	1898.4	1932.6	1935.8	1980.3	2031.1	2089.1	2143.2	2187.7
7.5°	1695.8	1713.3	1721.2	1753.0	1798.3	1805.4	1870.6	1950.9	2047.8	2129.7	2198.0
10°	1575.8	1584.5	1602.0	1625.8	1679.9	1684.7	1769.7	1877.0	2002.5	2123.3	2215.5
12.5°	1510.6	1515.4	1519.4	1544.8	1598.0	1605.2	1694.2	1815.8	1966.7	2128.1	2244.1
15°	1520.2	1521.7	1504.3	1509.0	1551.9	1562.3	1650.5	1775.2	1944.5	2140.0	2287.0
17.5°	1600.4	1594.9	1551.9	1529.7	1559.9	1564.7	1641.7	1759.3	1934.2	2162.2	2331.5
20°	1726.8	1718.8	1644.9	1595.6	1613.1	1617.1	1670.3	1771.3	1944.5	2198.8	2400.6
22.5°	1884.1	1880.9	1768.9	1709.3	1708.5	1708.5	1736.3	1814.2	1975.5	2248.8	2472.9
25°	2104.2	2087.5	1941.3	1864.2	1842.8	1841.2	1838.0	1884.9	2015.2	2302.1	2558.8
27.5°	2329.9	2301.3	2171.0	2052.6	2006.5	2000.9	1980.3	1985.0	2066.1	2362.5	2656.5
30°	2532.5	2514.3	2391.9	2260.8	2205.9	2193.2	2136.0	2109.8	2151.1	2471.3	2812.3
32.5°	2687.5	2676.4	2581.0	2461.8	2380.8	2378.4	2294.9	2273.5	2283.8	2603.3	2990.3
35°	2813.0	2817.0	2768.5	2665.2	2572.3	2558.8	2503.1	2476.1	2445.9	2794.0	3214.3
37.5°	2984.7	2993.4	2990.3	2901.3	2787.6	2790.8	2778.1	2733.6	2653.3	3006.9	3463.1
40°	3173.8	3180.2	3179.4	3145.2	3085.6	3088.8	3084.0	3033.2	2913.2	3277.9	3739.6
42.5°	3435.3	3405.1	3326.4	3360.6	3395.5	3410.6	3443.2	3394.7	3230.2	3567.2	3999.5
45°	3727.7	3670.5	3492.5	3508.4	3637.9	3666.5	3846.1	3779.3	3574.3	3899.3	4305.4
47.5°	3912.0	3855.6	3705.4	3702.3	3873.9	3901.7	4219.6	4194.9	3887.4	4257.7	4678.9
50°	4076.5	4068.6	3899.3	3939.9	4107.5	4148.8	4626.4	4603.4	4199.7	4680.5	5085.7
52.5°	4320.5	4256.1	4121.0	4204.5	4426.2	4480.2	5030.1	4962.6	4486.6	5054.0	5480.7
55°	4430.2	4415.1	4407.1	4479.4	4783.8	4822.7	5422.7	5267.7	4731.3	5370.2	5781.1
57.5°	4723.4	4695.6	4774.2	4823.5	5204.9	5264.5	5832.7	5586.4	4945.9	5621.3	5927.3
60°	5103.2	5088.1	5160.4	5249.4	5675.4	5766.0	6300.0	5858.1	5118.3	5747.7	5847.0
62.5°	5670.6	5669.0	5655.5	5846.2	6342.1	6425.5	6836.3	6122.7	5145.3	5653.1	5432.2
65°	6484.3	6455.7	6338.1	6546.3	7171.7	7269.4	7395.0	6270.6	4982.4	5167.6	4574.0
67.5°	7335.4	7333.8	7238.4	7508.6	8362.9	8463.8	8093.5	6238.0	4530.3	4186.2	3248.5
70°	8041.0	8006.9	8128.4	8848.4	9884.6	10001.4	8704.6	5854.2	3608.5	2764.6	1930.2
72.5°	8210.3	8211.9	8464.6	9881.4	11346.0	11364.2	8924.7	4744.8	2414.9	1524.9	965.5
74°	7689.0	7702.5	8094.3	9933.1	11618.5	11535.9	8362.1	3729.3	1633.0	995.7	696.1
75°	7018.3	6933.3	7499.9	9589.0	11335.6	11246.6	7703.3	2992.6	1246.0	795.4	609.5
77.5°	3752.3	3838.9	4713.0	7155.8	9209.2	9106.6	5223.2	1435.1	673.1	553.9	438.6
80°	1335.8	1473.3	2070.8	3744.4	5904.2	5936.0	2492.8	658.0	473.6	408.4	309.9
82.5°	545.1	560.2	889.2	1661.6	2998.2	3026.8	1017.9	391.0	338.5	281.3	185.2
85°	213.0	219.3	393.3	747.0	1279.4	1362.8	352.0	206.6	208.2	161.3	94.6
87.5°	71.5	81.1	161.3	248.7	434.7	425.9	102.5	61.2	74.7	69.9	29.4
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°	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0	2190.0
2.5°	2197.2	2212.3	2222.6	2233.8	2244.1	2247.3	2244.9	2252.0	2252.8	2253.6	2254.4
5°	2209.9	2230.6	2250.4	2261.6	2266.3	2262.4	2248.8	2241.7	2235.3	2230.6	2232.2
7.5°	2227.4	2256.8	2275.1	2279.8	2267.1	2248.8	2215.5	2189.3	2172.6	2161.4	2160.6
10°	2254.4	2283.0	2298.1	2284.6	2249.6	2205.1	2152.7	2103.4	2066.1	2055.0	2054.2
12.5°	2288.6	2321.2	2320.4	2280.6	2219.4	2140.0	2055.0	1997.7	1946.9	1921.5	1931.8
15°	2333.1	2357.7	2334.7	2263.2	2166.2	2057.3	1952.4	1874.6	1817.4	1790.3	1791.9
17.5°	2384.7	2406.2	2345.0	2232.2	2091.5	1951.7	1830.1	1756.2	1710.9	1691.0	1689.4
20°	2449.1	2455.5	2345.0	2178.1	1995.4	1828.5	1712.5	1660.8	1635.4	1625.1	1628.2
22.5°	2518.2	2505.5	2332.3	2101.8	1869.0	1699.7	1621.9	1598.8	1586.1	1584.5	1586.1
25°	2596.1	2560.4	2306.1	1998.5	1737.1	1588.5	1543.2	1547.2	1549.6	1549.6	1555.1
27.5°	2691.5	2619.9	2262.4	1868.2	1582.9	1485.2	1472.5	1500.3	1513.0	1515.4	1519.4
30°	2817.0	2685.1	2190.0	1705.3	1451.8	1392.2	1414.5	1451.8	1466.1	1474.9	1473.3
32.5°	2966.4	2756.6	2092.3	1542.4	1346.1	1327.1	1354.1	1392.2	1408.1	1412.9	1406.5
35°	3142.0	2837.7	1963.6	1389.8	1254.0	1265.1	1296.9	1308.8	1323.1	1323.1	1326.3
37.5°	3331.2	2902.8	1806.2	1250.0	1182.4	1223.0	1246.0	1234.9	1228.5	1220.6	1224.5
40°	3523.5	2951.3	1602.0	1111.7	1110.9	1179.3	1185.6	1153.8	1128.4	1120.5	1116.5
42.5°	3691.1	2981.5	1417.6	1004.4	1043.4	1136.3	1141.1	1090.3	1049.7	1025.9	1017.9
45°	3889.0	3016.5	1237.3	915.4	980.6	1102.2	1114.1	1045.8	986.2	936.1	923.4
47.5°	4160.0	3095.9	1095.0	846.3	935.3	1080.7	1097.4	1009.2	930.5	865.4	855.0
50°	4465.9	3204.8	984.6	799.4	900.3	1061.6	1082.3	971.9	878.9	806.6	798.6
52.5°	4746.4	3263.6	889.2	757.3	866.2	1026.7	1062.4	944.8	828.0	747.8	740.6
55°	4899.8	3168.3	795.4	716.0	819.3	981.4	1034.6	907.5	778.8	716.8	706.4
57.5°	4920.4	2971.2	710.4	671.5	770.0	925.8	983.0	862.2	747.0	695.3	686.6
60°	4760.7	2677.2	644.5	634.9	719.9	863.0	925.0	822.5	714.4	671.5	662.7
62.5°	4363.4	2357.7	598.4	601.5	669.1	797.0	882.1	784.3	683.4	645.3	637.3
65°	3680.0	1946.1	553.9	567.4	623.8	745.4	843.1	752.5	652.4	625.4	618.2
67.5°	2556.4	1404.9	517.3	531.6	580.9	692.9	797.8	718.4	617.4	603.1	592.0
70°	1415.3	864.6	474.4	491.1	536.4	634.1	747.0	666.7	566.6	560.2	544.3
72.5°	743.8	550.7	425.9	444.2	476.0	558.6	669.1	610.3	516.5	489.5	468.8
74°	580.9	451.4	393.3	412.4	433.9	514.1	623.0	569.8	480.8	449.0	433.1
75°	506.2	402.1	365.5	390.2	409.2	483.9	587.2	541.2	460.9	430.7	416.4
77.5°	357.6	301.2	298.8	328.2	338.5	424.3	529.2	492.7	410.8	379.0	365.5
80°	251.1	225.7	236.8	255.1	269.4	375.1	491.1	425.9	336.9	299.6	294.8
82.5°	163.7	147.8	169.3	185.9	190.7	276.5	396.5	323.4	245.5	199.5	185.2
85°	75.5	73.9	96.9	94.6	93.8	135.1	235.2	189.1	141.4	105.7	99.3
87.5°	19.1	18.3	23.8	19.9	23.8	20.7	21.5	5.6	0.8	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)