

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: P647303

Luminaire Tested: **GALN-SA2D-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12079.3 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

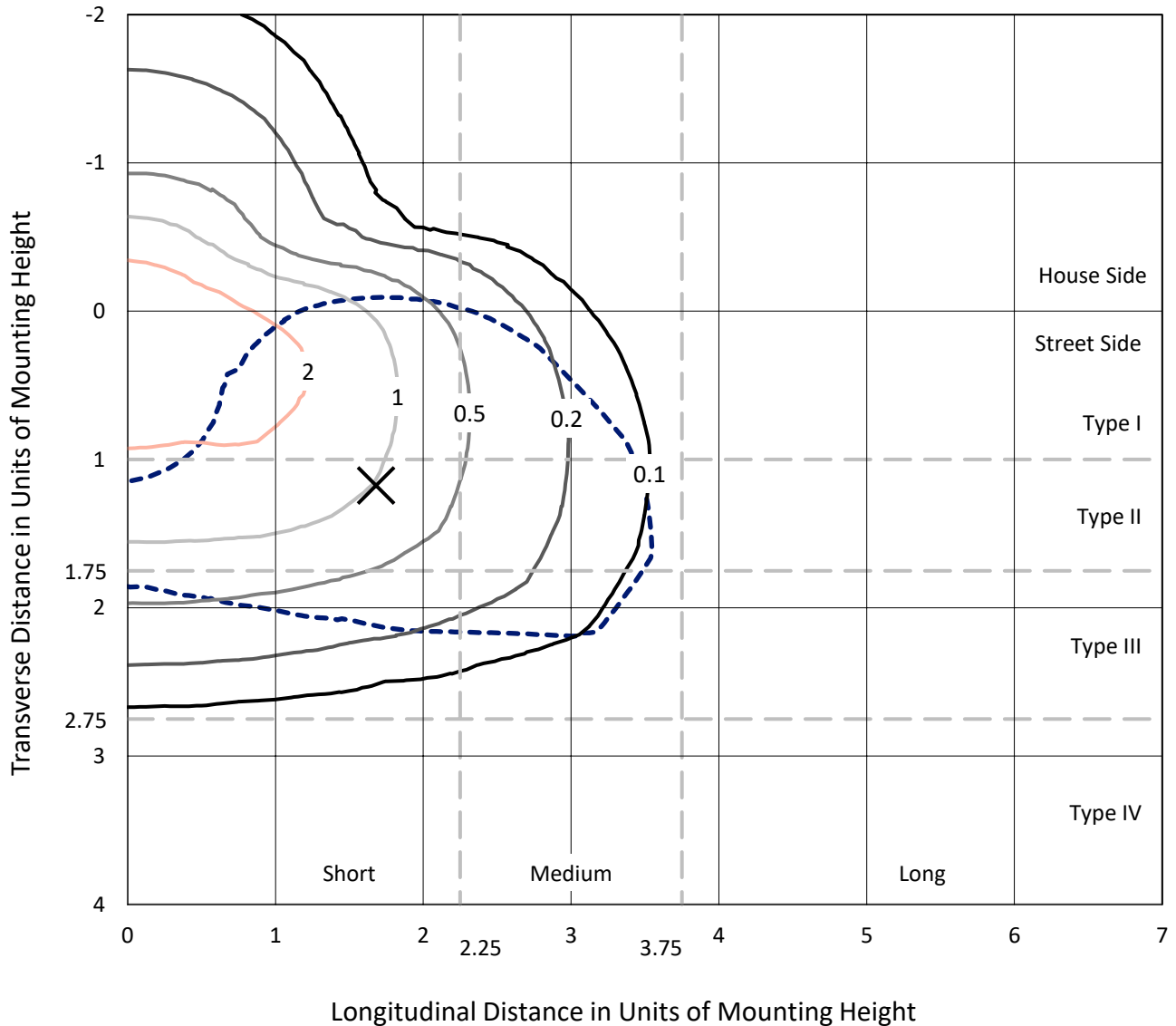
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

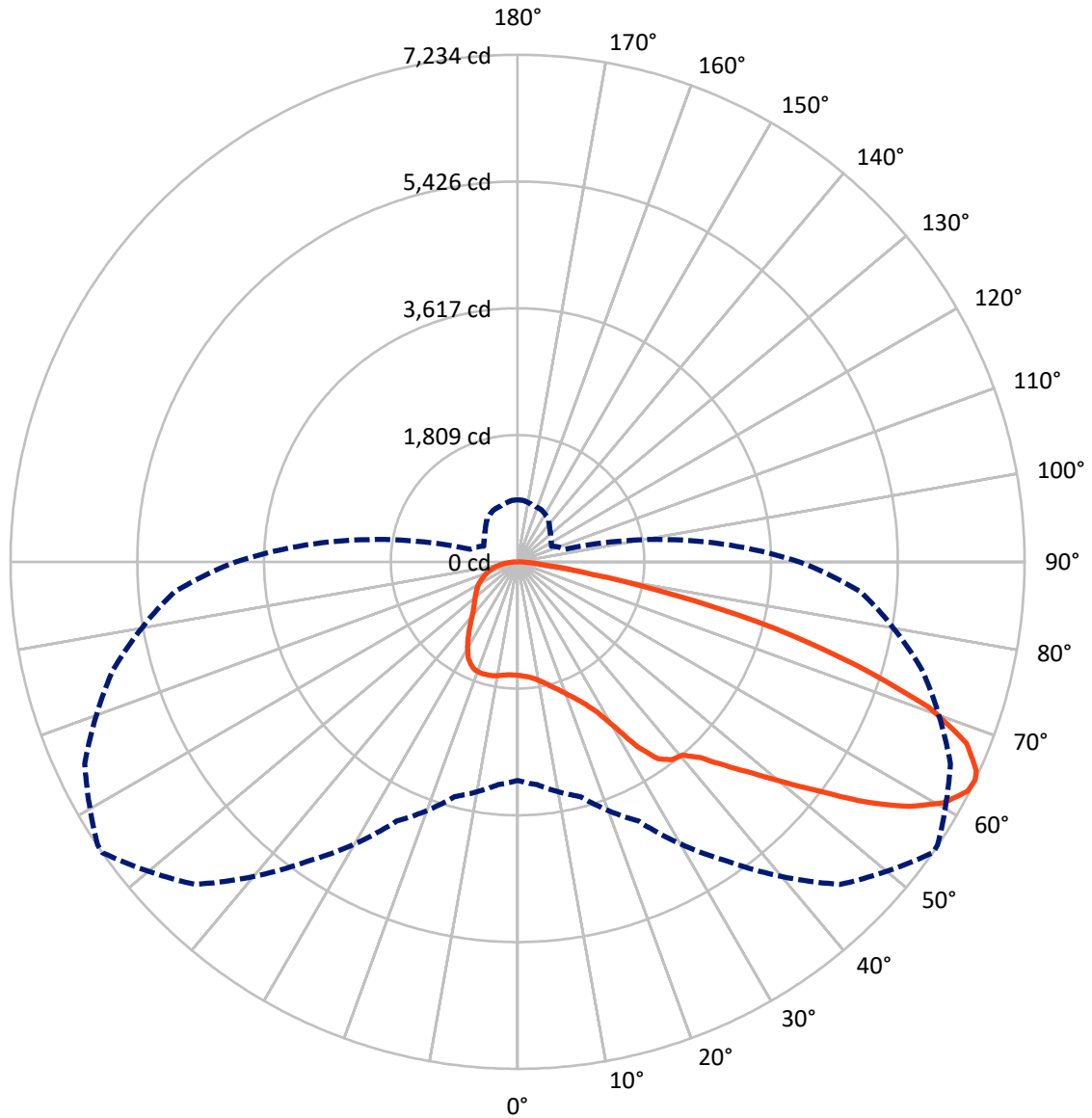
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2934.3	0.0	2934.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	9145.0	0.0	9145.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	12079.3	0.0	12079.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	1.3
10°-20°	497.4	4.1
20°-30°	885.6	7.3
30°-40°	1362.5	11.3
40°-50°	1931.5	16.0
50°-60°	2795.8	23.1
60°-70°	2893.3	24.0
70°-80°	1355.0	11.2
80°-90°	200.6	1.7
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°	12079.3	100.0
0°-180°	12079.3	100.0

Coefficient of Utilization



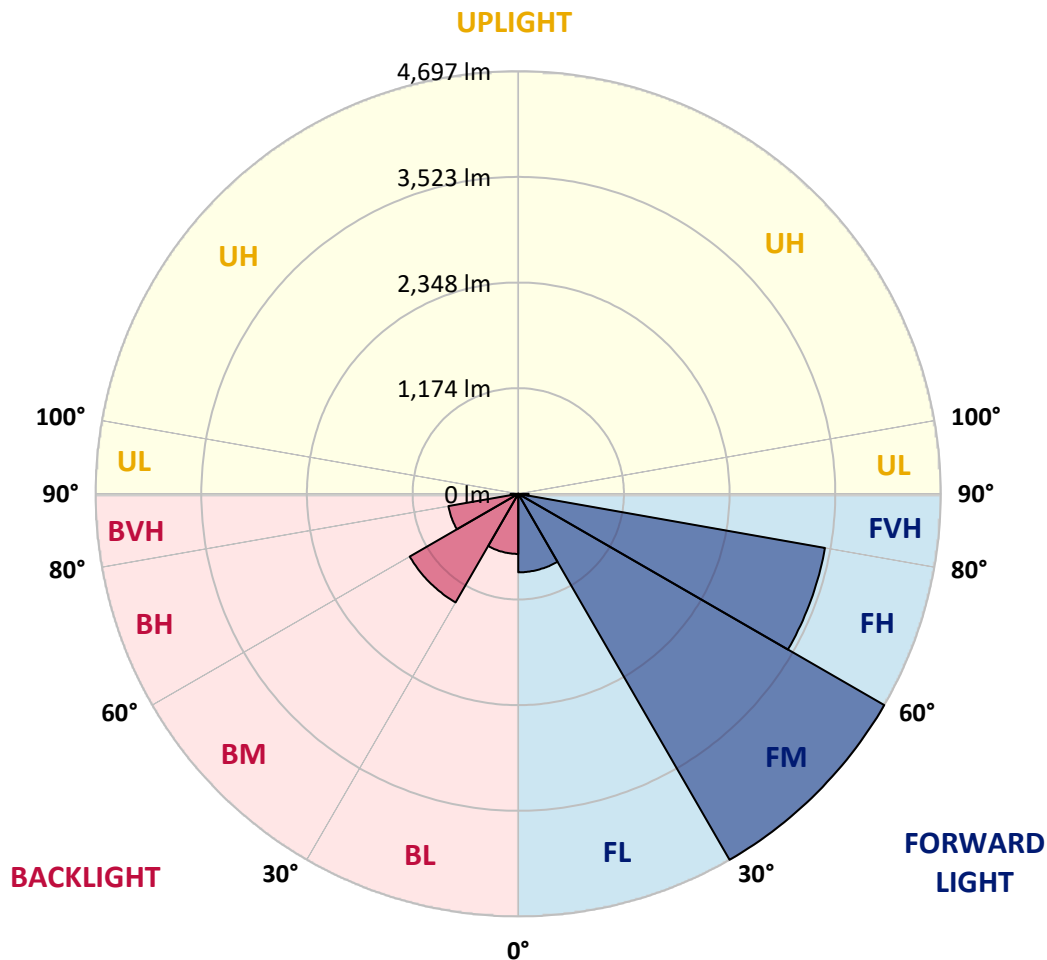
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.3	7.2			
FM (30°-60°)	4696.8	38.9			
FH (60°-80°)	3461.1	28.7			G2/5000
FVH (80°-90°)	114.8	1.0			G2/225
BL (0°-30°)	668.3	5.5	B2/1000		
BM (30°-60°)	1393.0	11.5	B2/2500		
BH (60°-80°)	787.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	85.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7
2.5°	1638.9	1638.2	1640.2	1638.2	1639.5	1634.8	1632.8	1634.1	1632.2	1628.8	1622.7
5°	1659.1	1658.4	1659.1	1656.4	1657.7	1655.0	1650.3	1651.7	1648.3	1640.9	1632.2
7.5°	1693.4	1690.7	1690.7	1690.0	1687.4	1683.3	1679.9	1678.6	1675.2	1665.8	1652.4
10°	1737.9	1737.9	1738.5	1733.1	1736.5	1729.1	1725.7	1725.0	1713.6	1701.5	1682.7
12.5°	1796.4	1799.8	1797.8	1795.1	1793.7	1791.0	1779.6	1782.3	1769.5	1748.6	1725.7
15°	1869.1	1874.5	1871.1	1869.8	1866.4	1856.3	1851.6	1849.6	1832.8	1802.5	1772.2
17.5°	1965.4	1958.7	1956.0	1952.6	1938.5	1931.1	1923.0	1921.6	1906.8	1871.1	1824.0
20°	2049.6	2059.0	2053.7	2050.3	2036.1	2022.0	2015.9	2013.9	2001.1	1962.0	1886.6
22.5°	2149.9	2151.9	2154.0	2145.9	2139.2	2128.4	2117.6	2114.3	2109.5	2069.1	1976.8
25°	2257.0	2265.1	2258.3	2250.3	2242.1	2241.5	2251.6	2250.3	2248.2	2209.2	2096.7
27.5°	2431.4	2438.7	2440.8	2432.0	2401.1	2403.7	2426.7	2434.0	2465.0	2400.4	2250.9
30°	2529.6	2537.1	2553.9	2586.9	2636.0	2679.1	2734.4	2751.2	2780.8	2658.9	2434.0
32.5°	2590.2	2593.0	2623.3	2684.5	2832.0	2992.9	3143.0	3149.1	3167.9	2996.9	2601.7
35°	2685.8	2687.9	2712.2	2779.5	2952.5	3220.5	3452.8	3460.2	3444.7	3102.0	2679.8
37.5°	2803.7	2809.1	2824.6	2880.5	3087.2	3411.1	3581.4	3576.0	3438.6	3185.5	2817.9
40°	2975.4	2975.4	2957.2	3032.6	3229.2	3520.1	3626.5	3617.1	3580.7	3427.2	3027.9
42.5°	3126.9	3124.2	3167.3	3218.4	3407.0	3688.5	3815.7	3831.2	3891.1	3730.8	3267.0
45°	3324.1	3336.3	3360.6	3453.5	3709.3	3976.0	4140.3	4155.1	4239.9	4088.4	3546.4
47.5°	3523.5	3527.5	3603.6	3727.5	4083.7	4365.8	4500.4	4524.7	4602.2	4506.6	3847.3
50°	3664.9	3703.3	3825.1	4020.4	4469.5	4841.2	4946.2	4975.2	5111.8	4961.7	4198.1
52.5°	3814.4	3852.0	4000.9	4298.5	4912.5	5327.3	5456.6	5476.1	5618.2	5422.3	4557.1
55°	3942.3	3977.3	4146.3	4544.9	5265.4	5823.6	6057.8	6035.0	6103.0	5777.1	4833.8
57.5°	3963.2	3991.4	4204.2	4702.5	5530.6	6249.1	6585.1	6598.6	6519.7	6042.4	5062.0
60°	3801.5	3859.5	4103.9	4685.6	5649.8	6545.3	6978.3	6987.7	6764.2	6178.4	5152.9
62.5°	3515.4	3509.3	3804.9	4414.9	5482.9	6612.7	7209.9	7199.8	6859.8	6113.1	5064.8
64°	3120.2	3192.9	3468.9	4082.3	5213.5	6509.0	7234.1	7228.7	6814.0	5977.0	4914.6
65°	2879.1	2875.1	3147.7	3810.3	4945.5	6352.8	7191.1	7183.6	6718.4	5855.2	4798.1
67.5°	2078.6	2087.9	2357.3	2940.4	4020.4	5742.1	6910.3	6882.6	6341.4	5451.2	4355.0
70°	1259.1	1264.5	1476.0	1950.6	2885.8	4641.9	6228.9	6230.3	5764.3	4847.9	3706.6
72.5°	663.2	677.4	762.2	1107.6	1752.7	3256.9	5053.2	5173.1	4948.9	4137.5	2928.3
75°	368.9	371.0	431.0	546.1	894.2	1822.7	3798.2	3832.6	3918.1	3330.3	2165.4
77.5°	281.4	285.5	304.4	352.8	486.8	845.0	2298.7	2471.1	2761.2	2347.9	1235.6
80°	228.2	232.3	248.4	277.4	323.8	400.7	1067.9	1160.8	1477.9	1042.3	482.1
82.5°	177.7	175.1	195.9	214.8	235.7	237.0	438.3	484.8	602.0	448.4	208.7
85°	131.9	131.9	148.8	144.8	152.1	138.7	193.2	213.4	241.1	190.6	96.9
87.5°	52.5	57.9	97.6	87.5	68.0	54.6	71.4	75.4	83.5	74.8	40.4
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°	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7	1620.7
2.5°	1623.4	1625.4	1620.7	1617.3	1616.0	1613.9	1612.0	1612.6	1615.3	1618.0	1617.3
5°	1631.5	1632.2	1624.0	1620.0	1617.3	1614.6	1614.6	1616.7	1622.1	1626.1	1626.1
7.5°	1651.7	1651.7	1640.2	1632.8	1628.8	1624.0	1622.7	1623.4	1627.4	1632.8	1633.5
10°	1683.3	1680.6	1665.8	1654.3	1647.0	1635.5	1625.4	1620.0	1622.1	1625.4	1625.4
12.5°	1721.7	1714.3	1695.4	1679.9	1661.8	1640.2	1619.3	1608.6	1607.9	1611.3	1609.9
15°	1762.8	1754.7	1728.4	1700.1	1668.5	1636.9	1612.0	1596.5	1584.3	1581.0	1588.4
17.5°	1810.5	1793.7	1757.4	1718.3	1671.2	1630.1	1591.1	1559.4	1537.9	1531.8	1533.8
20°	1868.5	1846.2	1797.1	1735.8	1669.2	1605.9	1545.3	1502.9	1467.8	1457.1	1458.4
22.5°	1948.6	1910.2	1838.2	1744.6	1652.4	1560.0	1476.0	1420.7	1378.3	1361.5	1371.6
25°	2039.5	1997.7	1877.2	1742.6	1608.6	1486.7	1393.7	1321.7	1283.3	1258.4	1263.8
27.5°	2164.8	2090.7	1919.0	1724.4	1546.0	1397.1	1289.4	1221.4	1186.4	1173.6	1179.7
30°	2325.0	2211.2	1964.1	1675.2	1447.0	1284.0	1184.4	1140.0	1119.1	1102.9	1108.3
32.5°	2440.8	2296.0	1974.2	1592.4	1339.9	1181.0	1113.0	1080.0	1057.1	1041.6	1045.0
35°	2523.6	2368.1	1969.5	1490.8	1228.1	1096.2	1056.4	1029.5	992.5	958.8	952.8
37.5°	2634.7	2458.3	1935.1	1379.6	1117.7	1039.0	1010.6	960.8	907.7	862.6	860.5
40°	2805.0	2564.0	1861.7	1249.0	1023.5	996.5	962.2	897.6	840.3	803.9	801.2
42.5°	2980.8	2661.7	1762.1	1111.6	946.0	952.0	910.3	846.3	811.3	787.8	785.1
45°	3195.6	2767.4	1654.3	992.5	888.8	910.3	865.2	828.2	807.3	791.8	787.8
47.5°	3427.9	2875.7	1533.1	885.4	840.3	871.9	846.3	829.5	818.1	807.3	802.6
50°	3678.4	2996.9	1419.3	799.2	796.5	832.3	844.3	838.3	831.5	828.2	824.1
52.5°	3953.1	3120.8	1323.7	738.6	758.2	803.9	845.0	849.7	849.7	847.7	845.0
55°	4138.9	3207.0	1226.8	689.5	719.1	781.0	843.7	861.8	868.6	865.9	863.2
57.5°	4276.3	3254.1	1104.9	647.1	686.1	758.8	836.2	863.2	869.9	873.3	871.9
60°	4304.5	3210.4	945.3	602.6	650.4	726.5	809.3	843.0	851.7	872.7	874.6
62.5°	4177.3	3075.7	786.4	558.8	606.7	677.4	773.0	820.1	837.6	869.9	873.3
64°	4021.1	2924.9	698.2	531.3	578.4	649.7	754.8	814.0	836.9	880.0	882.8
65°	3906.6	2815.1	643.0	513.7	560.2	631.6	744.7	816.0	843.0	895.5	899.6
67.5°	3485.1	2437.4	531.9	472.7	517.1	600.6	746.7	832.9	841.6	901.5	900.9
70°	2883.9	1940.5	445.8	435.0	475.4	575.7	738.6	805.9	806.6	846.3	836.9
72.5°	2159.4	1434.1	386.5	395.9	428.9	516.5	697.6	769.6	758.2	763.6	754.1
75°	1483.3	948.7	332.6	354.2	380.5	456.5	639.6	698.9	680.7	674.0	667.3
77.5°	791.8	524.5	276.7	313.1	330.6	394.6	558.2	615.4	596.6	570.3	561.6
80°	320.5	247.1	222.8	259.3	269.4	317.8	464.6	500.3	486.2	440.4	425.6
82.5°	160.9	148.1	175.1	204.0	204.7	226.9	345.4	379.1	347.4	291.5	278.7
85°	84.2	86.8	120.5	143.4	126.6	122.5	207.4	229.6	210.8	183.1	165.0
87.5°	30.3	35.0	63.3	62.6	44.5	23.6	45.8	22.2	12.1	7.4	9.4
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)