

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: P947725

Luminaire Tested: **GALN-SB3A-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12816 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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



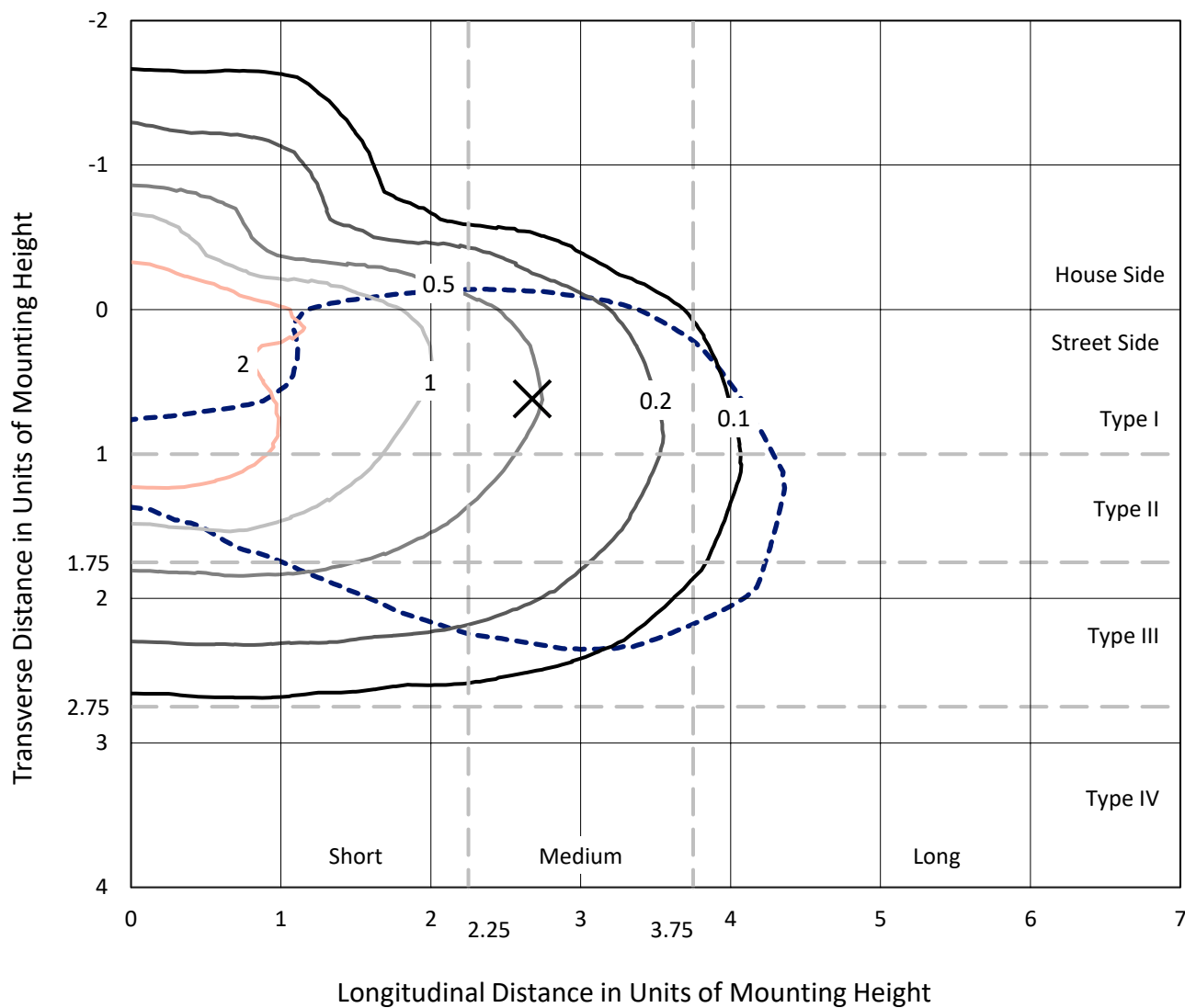
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Iso-Footcandle Lines of Horizontal Illumination

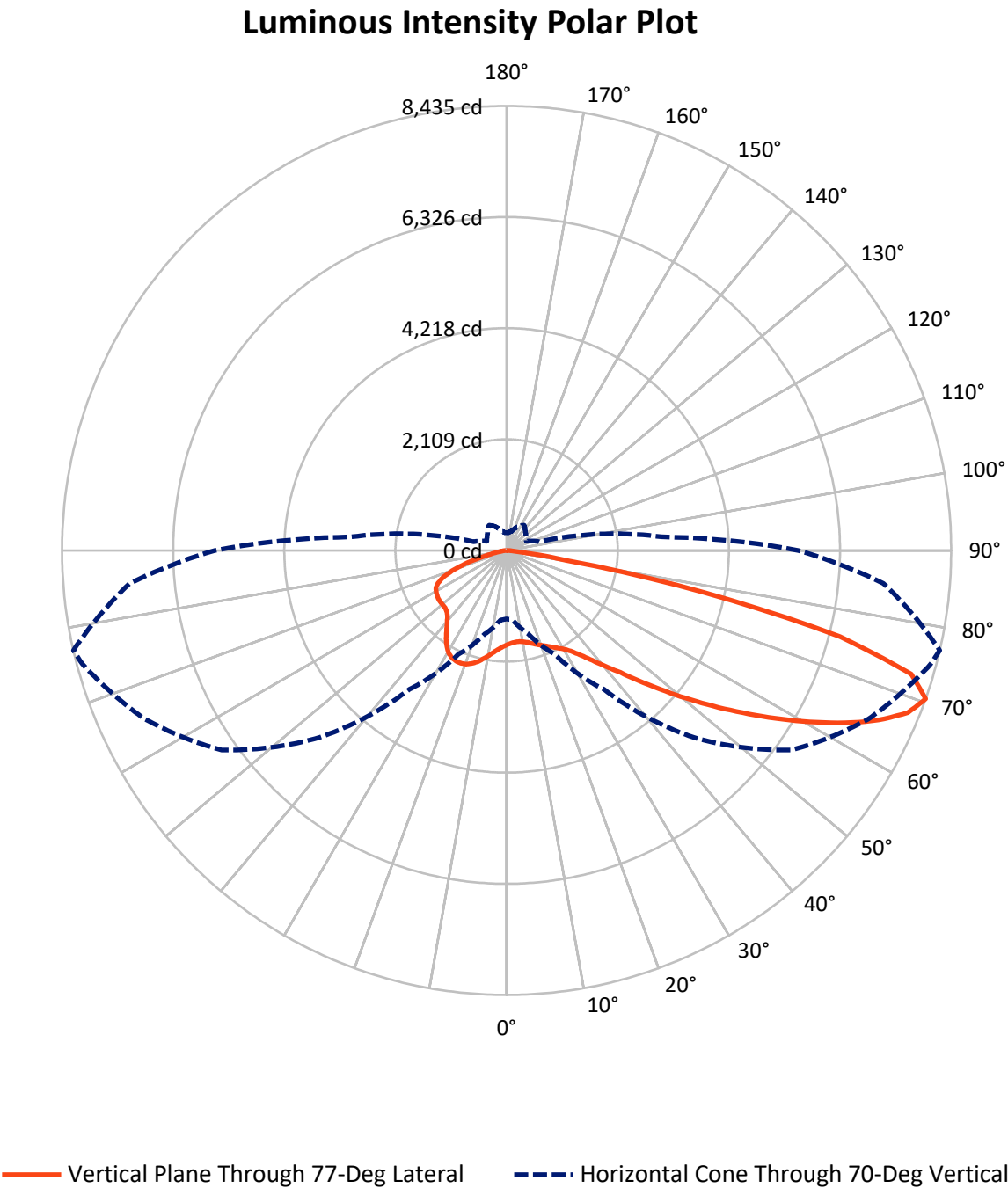
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2806.5	0.0	2806.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10009.5	0.0	10009.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	12816.0	0.0	12816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	1.3
10°-20°	492.1	3.8
20°-30°	841.6	6.6
30°-40°	1353.4	10.6
40°-50°	2113.1	16.5
50°-60°	2822.6	22.0
60°-70°	3008.4	23.5
70°-80°	1852.0	14.5
80°-90°	162.3	1.3
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°	12816.0	100.0
0°-180°	12816.0	100.0

Coefficient of Utilization



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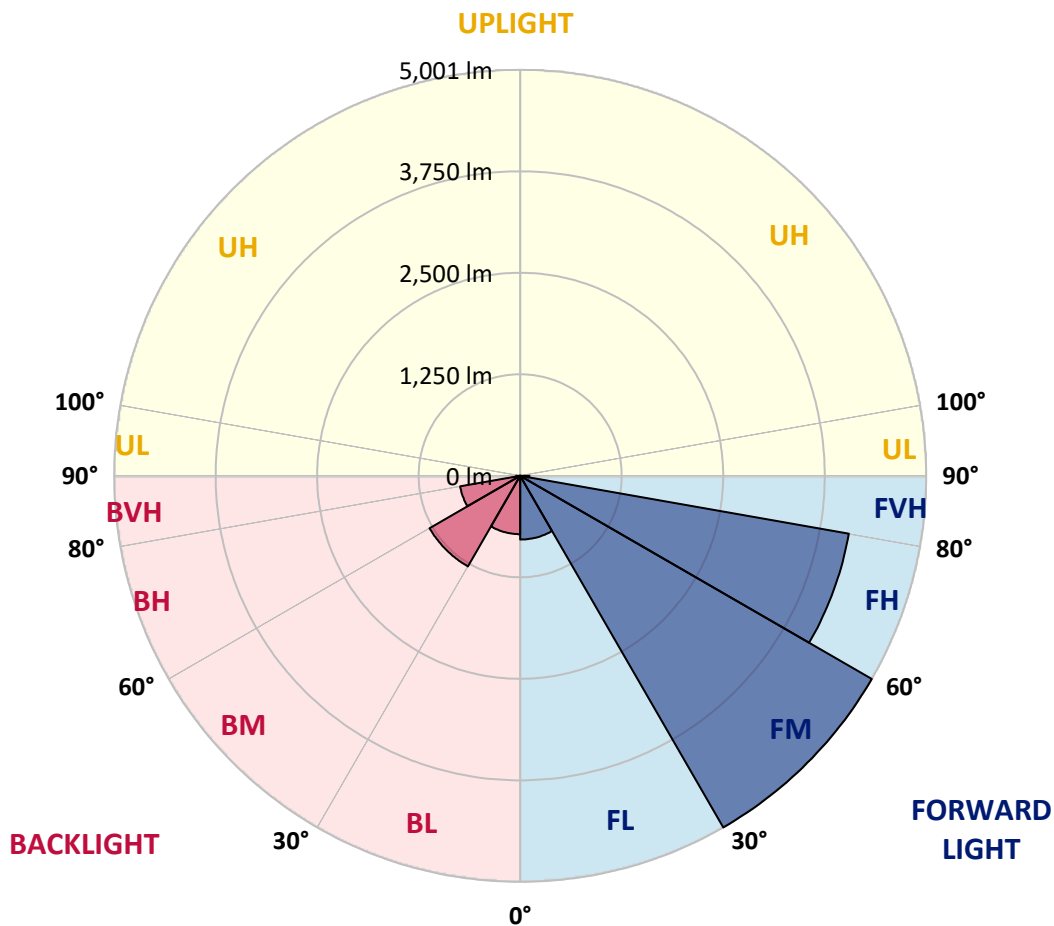
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	785.2	6.1			
FM	(30°-60°)	5000.5	39.0			
FH	(60°-80°)	4110.3	32.1			G2/5000
FVH	(80°-90°)	113.5	0.9			G2/225
BL	(0°-30°)	719.1	5.6	B2/1000		
BM	(30°-60°)	1288.5	10.1	B2/2500		
BH	(60°-80°)	750.1	5.9	B2/1000		G2/1000
BVH	(80°-90°)	48.8	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9
2.5°	1648.1	1647.5	1656.0	1658.6	1674.4	1685.6	1706.6	1728.9	1757.8	1761.0	1778.8
5°	1553.0	1553.0	1562.8	1573.3	1593.7	1616.0	1648.1	1686.9	1736.8	1744.6	1788.6
7.5°	1472.2	1477.5	1486.0	1506.4	1530.0	1562.2	1611.4	1666.5	1732.2	1744.6	1815.5
10°	1407.3	1413.2	1423.7	1440.1	1475.5	1520.2	1584.5	1655.4	1743.3	1763.0	1854.9
12.5°	1386.9	1392.8	1398.7	1411.2	1444.0	1496.5	1573.3	1660.6	1770.2	1789.9	1908.7
15°	1434.2	1441.4	1436.8	1433.5	1450.6	1498.5	1578.6	1679.6	1803.7	1831.9	1975.0
17.5°	1543.1	1545.7	1535.2	1504.4	1501.8	1527.4	1603.5	1705.9	1845.7	1876.6	2042.0
20°	1719.0	1714.4	1692.8	1631.7	1596.9	1591.7	1646.2	1745.3	1889.0	1921.8	2114.2
22.5°	1957.9	1952.7	1909.4	1812.9	1735.4	1684.2	1707.9	1796.5	1937.6	1974.4	2184.4
25°	2255.9	2248.7	2185.1	2053.8	1933.7	1807.0	1791.9	1864.1	1997.3	2031.5	2257.9
27.5°	2603.8	2597.9	2529.0	2355.7	2182.4	1975.0	1896.2	1943.5	2059.7	2098.4	2340.6
30°	2977.9	2995.0	2872.9	2686.5	2467.3	2194.2	2036.7	2041.3	2140.4	2175.2	2441.0
32.5°	3417.7	3447.2	3300.2	3063.9	2764.6	2432.5	2213.9	2177.8	2257.9	2286.8	2567.7
35°	3853.5	3887.0	3764.9	3503.7	3159.1	2713.4	2399.0	2334.7	2414.1	2445.6	2735.7
37.5°	4230.3	4274.9	4211.9	3984.8	3581.1	3052.1	2640.6	2519.1	2606.4	2645.8	2961.5
40°	4527.6	4595.9	4591.3	4449.5	4078.7	3463.0	2947.1	2746.9	2845.4	2888.0	3235.2
42.5°	4769.2	4828.2	4879.4	4872.2	4597.9	3929.7	3307.4	3042.9	3117.8	3167.0	3543.1
45°	4935.9	4998.9	5109.2	5228.0	5097.4	4429.2	3720.3	3394.1	3462.3	3536.5	3910.0
47.5°	5084.9	5156.4	5299.5	5487.9	5521.4	4930.6	4172.5	3803.0	3865.4	3942.2	4278.2
50°	5098.0	5159.7	5381.6	5648.7	5822.6	5412.4	4658.3	4261.8	4320.2	4402.3	4672.7
52.5°	4781.0	4878.1	5265.4	5644.1	5961.1	5815.4	5140.7	4739.0	4804.6	4903.1	5081.0
55°	3711.1	3853.5	4924.7	5468.2	5911.9	6076.0	5599.5	5246.4	5330.4	5433.4	5491.8
57.5°	3196.5	3258.9	3909.3	5147.9	5687.4	6143.6	5986.7	5759.0	5894.2	6007.1	5926.4
60°	2872.9	2924.8	3309.4	4649.7	5392.1	6036.6	6286.0	6236.8	6470.5	6605.0	6370.7
62.5°	2526.4	2575.6	2925.4	3882.4	5014.0	5858.7	6475.1	6677.9	7061.2	7208.2	6789.5
65°	2182.4	2224.4	2559.8	3262.2	4533.5	5680.9	6572.9	7059.2	7608.0	7760.2	7137.4
67.5°	1799.1	1833.9	2150.9	2752.2	3949.4	5437.4	6621.4	7359.2	8083.8	8214.5	7309.3
70°	1298.3	1325.2	1652.7	2176.5	3216.2	5018.6	6601.8	7571.9	8330.6	8435.0	7179.4
72.5°	613.7	638.0	1022.6	1413.2	2271.7	4203.4	6203.3	7403.2	8079.9	8028.0	6383.8
75°	327.5	348.5	587.5	775.2	1199.8	2881.5	5076.4	6377.3	6784.9	6532.8	4718.0
77.5°	221.9	238.3	363.6	465.4	548.1	1367.9	3262.8	4415.4	4248.0	3831.9	2362.9
80°	175.9	193.0	298.0	315.1	265.2	494.2	1348.2	2043.9	1468.3	1174.2	672.1
82.5°	135.2	154.2	250.7	228.4	144.4	202.8	392.5	646.5	376.1	286.2	162.8
85°	82.7	103.0	196.9	145.7	81.4	92.5	133.2	179.8	114.9	95.8	58.4
87.5°	42.0	59.1	99.8	53.2	36.8	21.7	35.4	35.4	30.2	26.3	15.1
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°	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9	1787.9
2.5°	1794.5	1807.6	1830.0	1851.0	1867.4	1883.1	1898.9	1907.4	1910.0	1920.5	1926.4
5°	1815.5	1839.8	1883.1	1923.8	1949.4	1965.2	1976.3	1982.9	1984.2	1987.5	1992.7
7.5°	1854.2	1893.0	1953.4	1994.0	2013.1	2011.8	2007.2	1990.8	1984.2	1978.3	1979.6
10°	1908.7	1959.9	2034.1	2062.3	2050.5	2019.0	1978.3	1930.4	1908.1	1886.4	1879.8
12.5°	1976.3	2041.3	2114.2	2112.9	2054.4	1973.7	1879.2	1805.7	1759.1	1725.6	1717.7
15°	2058.4	2133.2	2189.0	2144.4	2016.4	1871.3	1732.8	1637.0	1595.0	1558.2	1554.3
17.5°	2143.0	2223.1	2248.7	2134.5	1920.5	1719.7	1562.8	1487.3	1446.0	1426.3	1432.2
20°	2225.7	2305.2	2284.2	2078.1	1774.8	1547.7	1407.9	1366.6	1358.0	1362.6	1360.7
22.5°	2313.0	2383.9	2291.4	1969.1	1589.1	1371.8	1295.0	1296.3	1315.4	1329.1	1332.4
25°	2402.3	2450.2	2272.3	1811.6	1389.5	1242.5	1223.5	1244.5	1281.9	1308.8	1316.0
27.5°	2488.3	2509.3	2231.0	1616.6	1218.2	1150.0	1153.2	1196.6	1253.0	1290.4	1299.6
30°	2585.4	2561.8	2151.6	1397.4	1099.4	1070.5	1098.1	1148.6	1205.1	1238.6	1246.4
32.5°	2695.1	2607.1	2025.6	1194.6	1015.4	1006.9	1052.2	1085.0	1109.9	1119.8	1125.0
35°	2831.6	2670.8	1864.1	1052.2	939.9	960.3	1003.6	987.2	977.3	972.1	977.3
37.5°	3008.8	2756.7	1675.1	959.6	878.9	926.8	944.5	893.3	854.6	835.6	840.2
40°	3222.1	2882.8	1493.2	888.1	840.2	897.9	867.1	805.4	756.1	729.2	731.2
42.5°	3459.1	3014.7	1340.3	834.2	818.5	874.3	810.0	736.4	657.0	648.5	657.0
45°	3707.8	3150.6	1235.9	792.9	808.0	853.9	777.1	658.3	601.9	636.7	655.1
47.5°	3956.6	3275.3	1172.9	762.0	802.7	831.0	748.3	615.0	575.0	625.5	649.1
50°	4233.6	3386.9	1144.7	739.7	796.8	821.8	704.9	603.9	546.8	580.2	605.2
52.5°	4508.6	3473.5	1123.7	717.4	788.3	814.6	683.9	590.7	512.6	514.6	528.4
55°	4783.0	3530.0	1100.7	687.9	769.3	798.8	682.0	576.3	487.0	477.8	484.4
57.5°	5075.7	3562.1	1072.5	655.1	736.4	758.8	680.0	565.1	479.1	464.1	466.0
60°	5373.7	3609.4	1035.8	615.0	692.5	710.8	675.4	561.2	474.6	449.0	450.9
62.5°	5640.8	3625.8	991.8	576.9	636.0	663.6	665.6	557.9	462.1	418.1	418.1
65°	5816.1	3554.9	915.0	533.6	575.0	615.0	646.5	546.8	439.8	395.8	395.8
67.5°	5808.9	3352.7	794.9	477.8	515.9	561.2	619.0	527.7	412.9	368.2	370.2
70°	5538.4	2953.7	642.6	412.9	450.9	503.4	583.5	499.5	380.7	338.0	342.0
72.5°	4750.1	2311.7	466.7	336.7	375.4	443.7	537.6	465.4	347.9	311.1	309.1
75°	3393.4	1463.0	316.4	258.6	292.1	376.1	480.5	425.3	317.7	312.4	294.7
77.5°	1733.5	699.0	209.4	189.0	203.5	296.7	403.7	380.0	322.3	258.0	229.7
80°	563.8	258.0	131.9	128.6	135.2	197.6	312.4	311.8	244.2	175.3	154.9
82.5°	179.8	110.9	86.0	82.7	79.4	124.1	217.9	246.8	164.7	110.9	110.3
85°	71.5	66.3	50.5	46.6	33.5	58.4	114.2	164.1	122.7	80.1	82.0
87.5°	26.3	26.3	13.8	9.8	7.2	19.7	30.8	49.2	70.2	41.4	40.7
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)