

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: P940089

Luminaire Tested: **GALN-SB3A-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12338 lumens
Efficiency: N/A
Efficacy: 145.7 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): 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



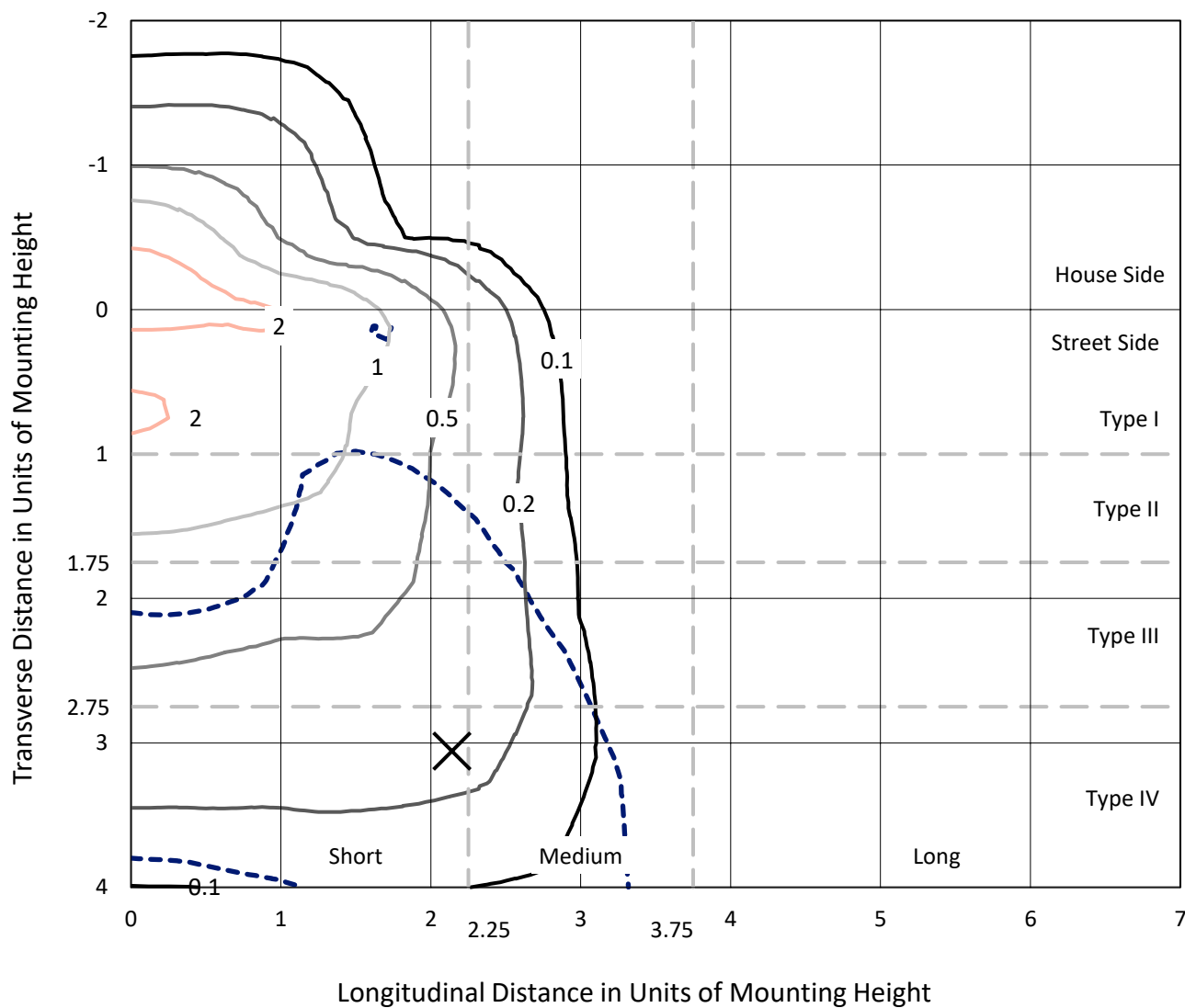
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



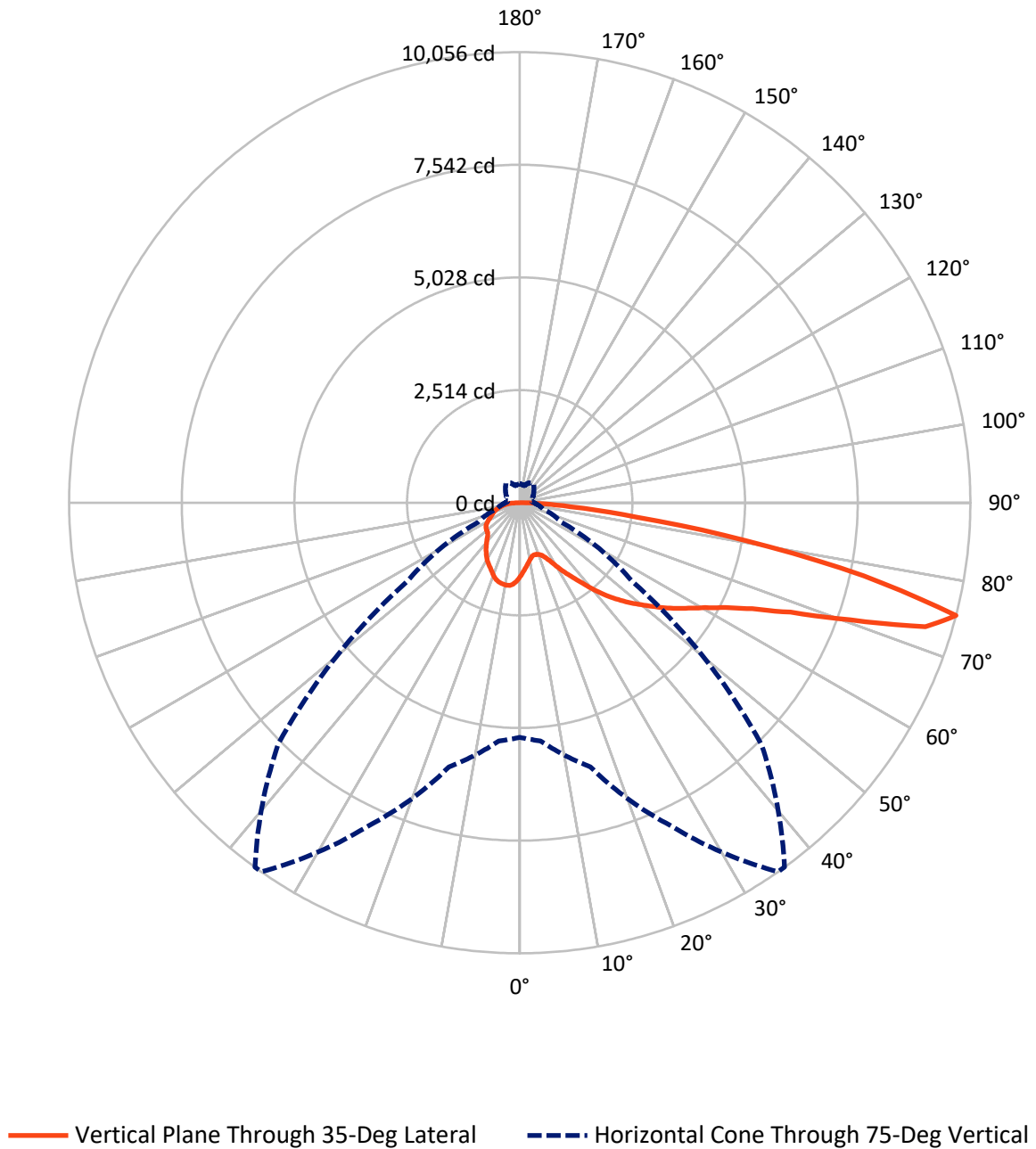
Based on 25 foot mounting height. Maximum calculated value = 2.9 fc

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	2936.1	0.0	2936.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	9401.9	0.0	9401.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	12338.0	0.0	12338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	1.3
10°-20°	449.0	3.6
20°-30°	754.0	6.1
30°-40°	1171.8	9.5
40°-50°	1739.3	14.1
50°-60°	2401.2	19.5
60°-70°	2913.2	23.6
70°-80°	2407.5	19.5
80°-90°	346.3	2.8
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°	12338.0	100.0
0°-180°	12338.0	100.0

Coefficient of Utilization



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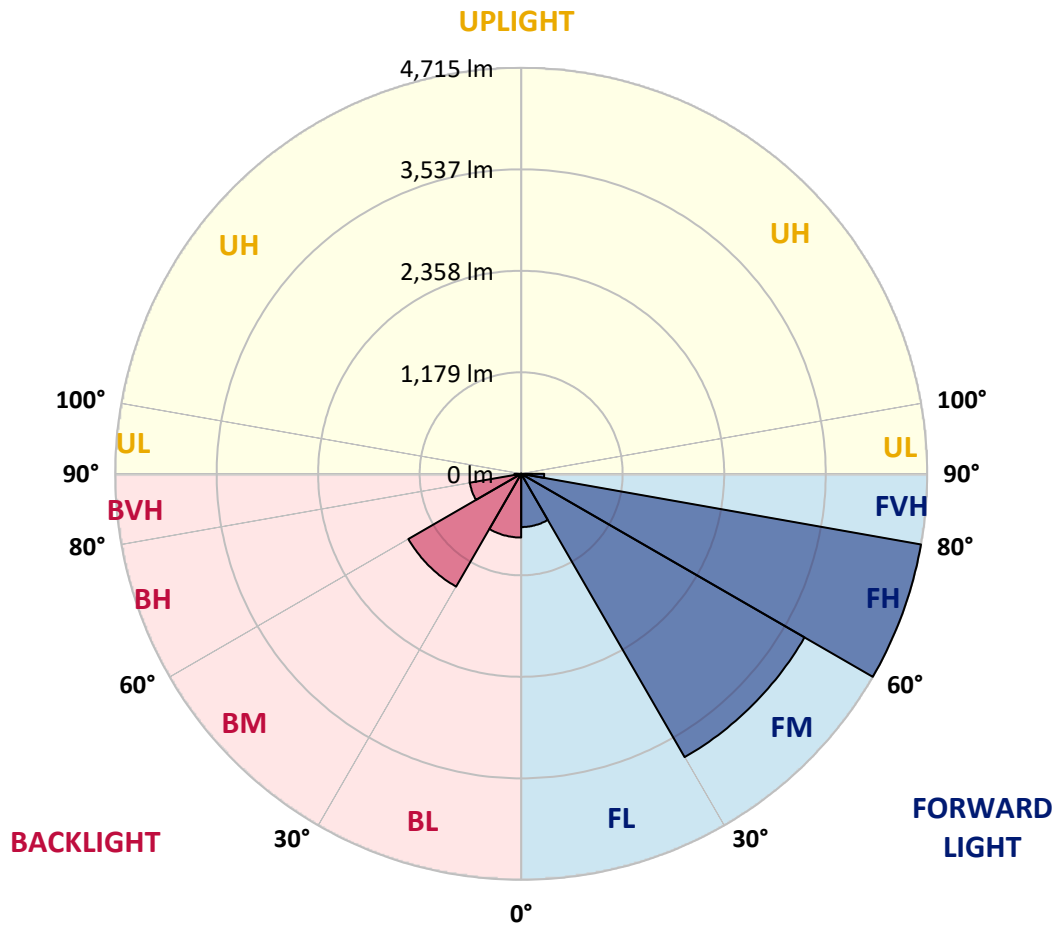
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.7	5.0			
FM	(30°-60°)	3799.4	30.8			
FH	(60°-80°)	4715.4	38.2			G2/5000
FVH	(80°-90°)	268.3	2.2			G3/500
BL	(0°-30°)	739.9	6.0	B2/1000		
BM	(30°-60°)	1512.9	12.3	B2/2500		
BH	(60°-80°)	605.3	4.9	B2/1000		G2/1000
BVH	(80°-90°)	78.0	0.6			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°	35°	36°	45°	55°	65°	75°	85°
0°	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1516.1	1525.4	1529.4	1527.4	1537.4	1536.1	1550.1	1567.4	1591.4	1614.8	1648.8
5°	1399.3	1409.3	1418.0	1426.0	1445.4	1451.4	1473.4	1506.7	1550.7	1595.4	1651.5
7.5°	1290.6	1299.3	1312.6	1327.3	1360.0	1366.0	1402.7	1454.7	1516.1	1581.4	1658.8
10°	1201.9	1210.6	1224.6	1241.3	1281.9	1289.3	1336.0	1405.3	1485.4	1568.1	1666.8
12.5°	1163.9	1166.6	1174.6	1191.2	1226.6	1231.3	1282.6	1362.0	1455.4	1558.1	1678.8
15°	1161.9	1167.2	1167.9	1176.6	1205.9	1207.9	1255.3	1334.0	1436.7	1556.1	1696.8
17.5°	1181.9	1185.9	1179.9	1185.2	1209.9	1213.2	1250.6	1320.6	1430.7	1564.8	1727.5
20°	1235.3	1238.6	1220.6	1213.2	1231.3	1233.9	1270.6	1329.3	1436.7	1582.8	1769.5
22.5°	1348.6	1350.6	1306.6	1276.6	1277.9	1279.3	1311.3	1364.7	1460.0	1615.4	1822.9
25°	1525.4	1524.1	1454.0	1396.0	1362.7	1355.3	1376.7	1422.0	1499.4	1658.8	1891.6
27.5°	1732.2	1722.2	1652.1	1565.4	1492.7	1482.0	1477.4	1496.7	1555.4	1716.2	1975.6
30°	1965.6	1956.3	1880.9	1767.5	1666.8	1649.5	1605.4	1595.4	1638.8	1794.2	2092.3
32.5°	2221.7	2215.7	2125.7	1988.3	1853.6	1833.5	1759.5	1732.8	1766.8	1912.3	2255.1
35°	2436.5	2431.2	2356.5	2215.1	2050.3	2025.6	1950.3	1920.3	1937.6	2063.7	2467.9
37.5°	2630.6	2627.9	2563.9	2452.5	2282.4	2252.4	2167.7	2157.7	2154.4	2263.1	2726.0
40°	2810.7	2804.0	2737.3	2678.6	2552.6	2525.2	2450.5	2441.8	2416.5	2508.5	3018.1
42.5°	3010.1	2992.8	2896.1	2868.7	2834.7	2812.0	2767.3	2768.7	2712.6	2785.3	3327.6
45°	3172.9	3162.9	3063.5	3047.5	3084.1	3074.8	3113.5	3123.5	3014.8	3075.5	3649.1
47.5°	3347.6	3338.3	3254.2	3242.9	3342.3	3344.9	3481.7	3485.0	3309.6	3377.0	3971.2
50°	3563.0	3549.7	3466.3	3480.3	3591.7	3601.7	3851.8	3829.2	3581.1	3683.1	4290.7
52.5°	3705.1	3713.1	3695.1	3717.8	3869.9	3879.2	4216.0	4158.0	3849.8	3985.2	4604.2
55°	3809.8	3825.8	3881.9	3933.9	4163.3	4172.7	4559.5	4470.8	4072.6	4265.4	4899.0
57.5°	3944.6	3921.9	4026.6	4128.0	4442.1	4466.8	4893.7	4772.3	4270.0	4506.8	5101.1
60°	4138.0	4122.0	4203.3	4353.4	4754.3	4793.6	5247.2	5043.8	4414.8	4698.3	5140.5
62.5°	4530.2	4490.2	4502.8	4635.6	5147.8	5199.8	5646.0	5280.5	4486.8	4773.0	4929.7
65°	5116.5	5047.8	4983.7	5075.8	5702.1	5753.4	6096.3	5466.6	4460.1	4628.2	4370.1
67.5°	5854.8	5786.8	5708.1	5794.8	6518.5	6559.1	6651.9	5571.3	4250.0	4070.6	3381.0
70°	6463.8	6438.4	6532.5	6889.3	7822.4	7823.8	7364.2	5484.6	3674.4	2886.1	1956.3
72.5°	6383.1	6367.7	6863.3	7966.5	9465.9	9430.5	8038.5	4828.3	2475.2	1302.0	733.0
75°	5236.5	5335.9	6103.6	7947.1	10056.2	10051.5	7625.7	3069.5	1023.8	539.6	378.8
77.5°	2808.0	2965.4	3962.6	5867.5	7850.4	7968.5	5361.2	1073.8	439.5	345.5	262.1
80°	915.8	1053.2	1579.4	2987.4	5101.1	5079.1	2297.8	421.5	300.8	244.8	181.4
82.5°	388.9	404.9	705.7	1410.7	2617.9	2577.2	731.7	242.1	211.4	167.4	112.1
85°	152.1	170.1	311.5	652.3	1133.9	1109.2	264.1	120.1	135.4	109.4	66.7
87.5°	50.0	60.7	111.4	223.4	352.8	340.2	64.7	41.4	58.7	50.0	24.0
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°	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1658.1	1668.8	1681.5	1700.1	1716.2	1729.5	1743.5	1752.2	1755.5	1765.5	1764.8
5°	1670.1	1693.5	1724.8	1755.5	1785.5	1803.5	1819.5	1827.5	1834.9	1840.2	1841.5
7.5°	1690.1	1720.2	1769.5	1809.5	1834.9	1849.6	1860.2	1857.6	1860.2	1861.6	1863.6
10°	1707.5	1749.5	1808.2	1846.2	1865.6	1866.2	1863.6	1854.2	1849.6	1850.2	1851.6
12.5°	1728.2	1774.9	1838.2	1870.2	1875.6	1860.9	1849.6	1833.5	1827.5	1824.9	1823.5
15°	1756.2	1809.5	1870.9	1882.9	1869.6	1850.9	1831.5	1805.5	1792.2	1781.5	1784.9
17.5°	1790.2	1848.9	1896.2	1887.6	1858.9	1828.2	1796.9	1757.5	1730.2	1718.8	1719.5
20°	1837.5	1890.2	1915.6	1877.6	1834.2	1787.5	1734.2	1686.1	1660.8	1649.5	1648.1
22.5°	1894.9	1945.6	1934.3	1860.2	1798.9	1724.2	1657.5	1622.1	1609.4	1601.4	1602.8
25°	1963.6	2007.0	1947.6	1834.9	1740.8	1640.1	1588.8	1577.4	1571.4	1565.4	1565.4
27.5°	2053.0	2076.3	1957.6	1797.5	1650.1	1550.7	1532.1	1534.1	1532.1	1522.1	1524.1
30°	2171.0	2166.4	1966.9	1736.8	1546.1	1470.0	1471.4	1480.0	1481.4	1474.7	1478.0
32.5°	2326.4	2279.1	1971.6	1658.1	1446.7	1399.3	1400.7	1410.0	1416.7	1405.3	1410.7
35°	2514.5	2410.5	1964.3	1559.4	1370.0	1332.0	1322.0	1324.6	1326.6	1316.0	1323.3
37.5°	2734.0	2557.9	1931.6	1450.0	1306.6	1265.9	1244.6	1226.6	1215.9	1205.9	1212.6
40°	2974.8	2718.6	1871.6	1343.3	1235.9	1195.9	1163.9	1129.9	1093.9	1080.5	1086.5
42.5°	3226.9	2884.1	1798.9	1241.3	1154.6	1121.9	1087.9	1038.5	984.5	957.1	960.5
45°	3488.3	3053.5	1727.5	1140.5	1071.2	1057.2	1017.8	958.5	899.8	865.1	862.4
47.5°	3744.5	3213.5	1622.8	1039.2	993.1	1008.5	977.8	923.1	857.7	803.1	797.0
50°	3989.2	3363.6	1451.4	936.4	929.8	993.8	964.5	885.8	811.1	741.0	735.0
52.5°	4232.0	3485.0	1231.9	843.1	895.8	989.8	947.1	860.4	769.0	695.7	687.7
55°	4438.1	3547.7	1020.5	763.0	846.4	955.8	926.4	830.4	709.7	631.6	625.0
57.5°	4555.5	3497.0	844.4	684.3	778.4	899.8	891.1	766.4	639.0	578.9	570.9
60°	4504.8	3291.6	700.3	615.6	713.7	839.1	829.7	703.0	584.9	528.3	520.2
62.5°	4225.4	2900.1	586.3	555.6	655.0	777.0	768.4	654.3	543.6	488.9	480.2
65°	3662.4	2359.1	497.6	505.6	595.6	702.3	715.0	613.6	510.9	457.6	448.9
67.5°	2793.3	1708.8	428.2	462.2	537.6	629.0	665.7	584.3	483.6	432.9	424.9
70°	1592.1	970.5	369.5	420.2	486.2	560.9	627.6	560.9	454.2	412.2	406.9
72.5°	603.6	445.5	319.5	378.2	436.9	503.6	585.6	524.3	420.2	388.9	383.5
75°	322.2	271.5	268.8	328.8	380.2	447.5	532.9	488.2	394.9	410.9	424.2
77.5°	219.4	192.1	224.8	281.5	318.2	385.5	476.9	433.5	342.2	340.8	314.2
80°	152.1	136.1	182.8	226.8	246.1	324.2	416.2	372.2	278.8	260.1	248.8
82.5°	91.4	88.7	136.7	169.4	174.1	250.1	344.8	312.1	228.1	198.8	200.1
85°	50.0	52.7	87.4	99.4	101.4	174.8	270.1	241.4	175.4	147.4	148.7
87.5°	14.0	18.0	32.0	39.4	48.7	90.7	160.7	143.4	88.0	61.4	61.4
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)