

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: P451608

Luminaire Tested: **GALN-SA2C-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451608
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-SA2C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 11798 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

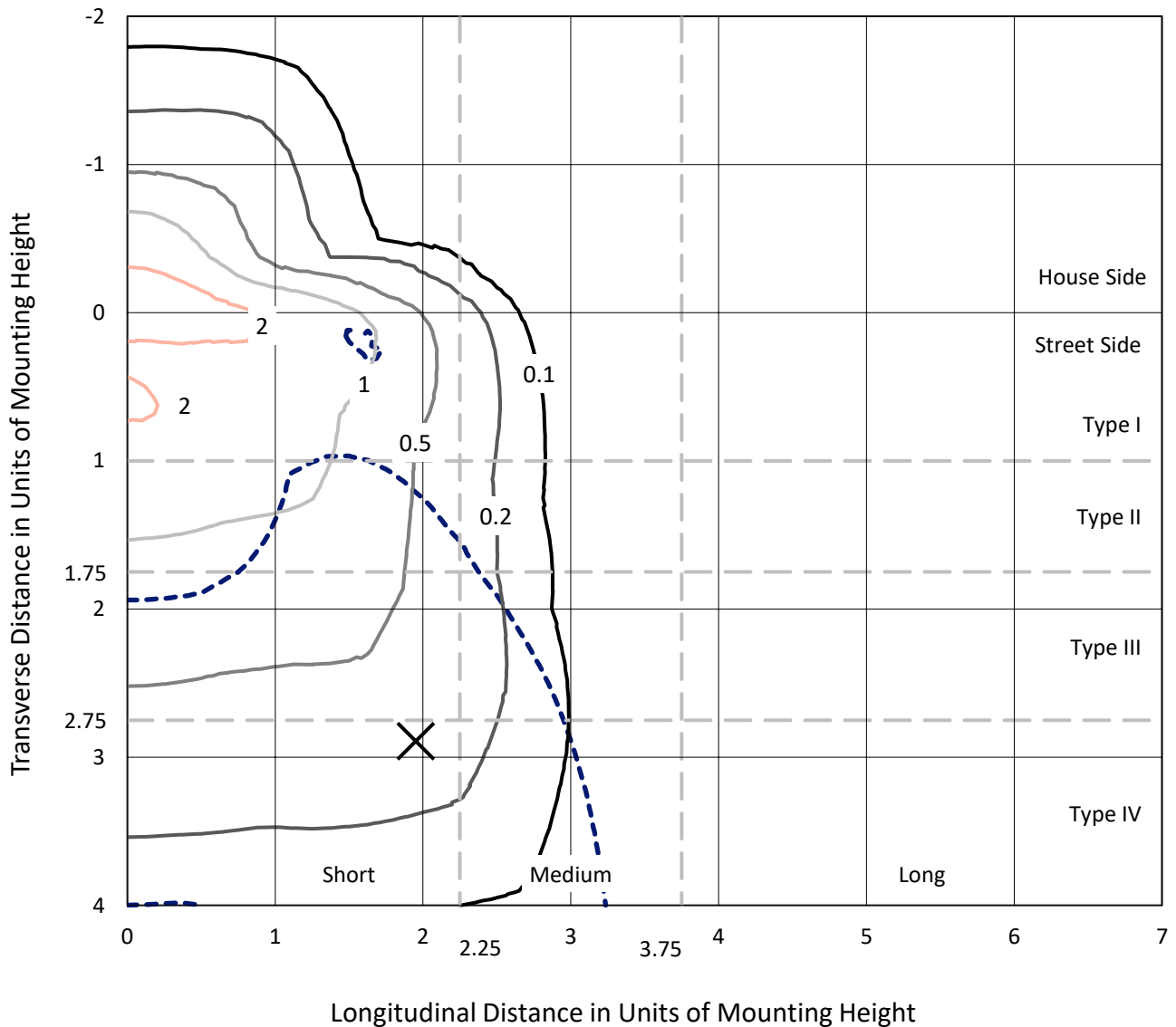
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

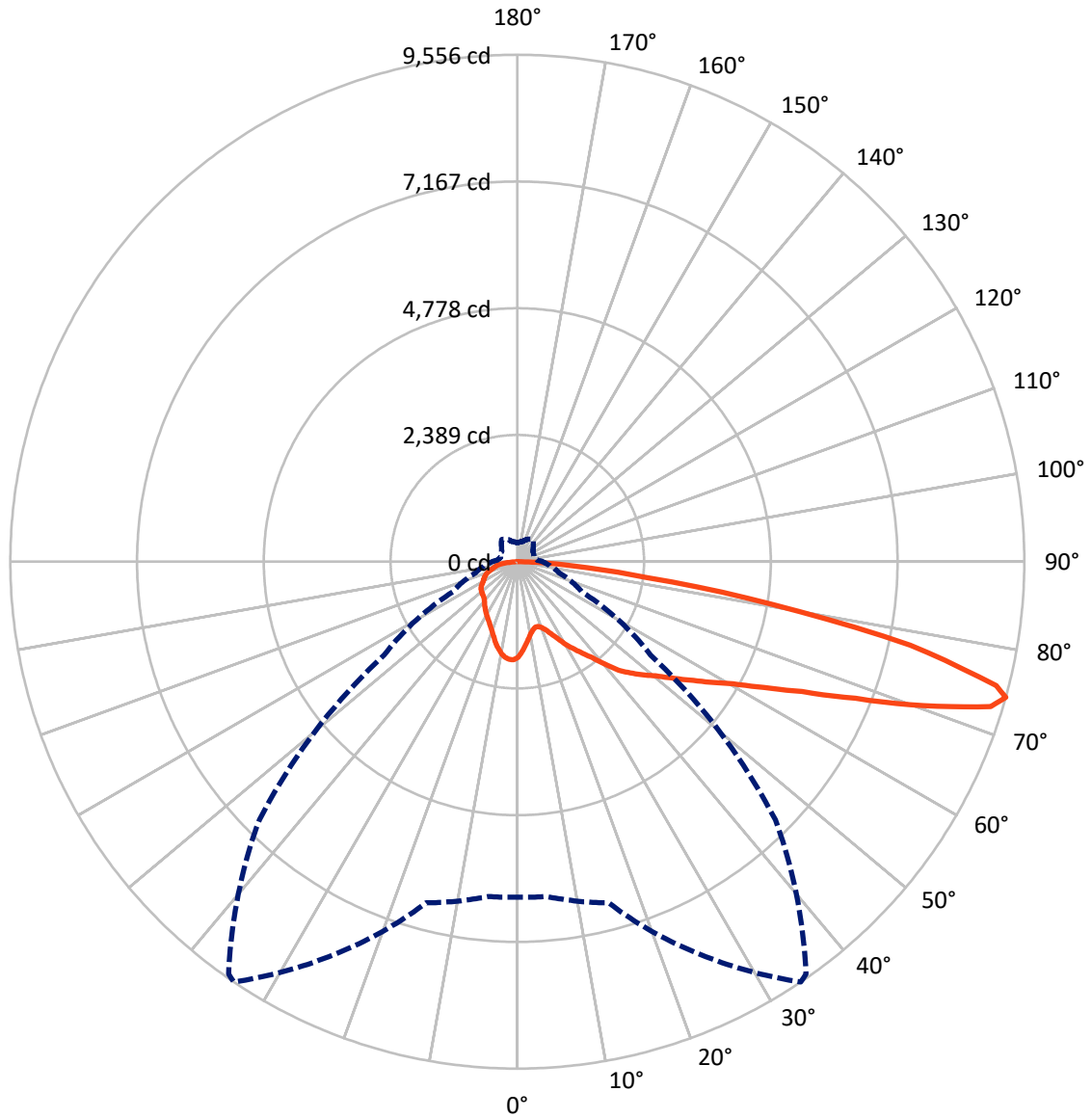
✕ Max cd
 - - - 1/2 Max cd



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



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2510.7	0.0	2510.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	9287.3	0.0	9287.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	11798.0	0.0	11798.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.4
10°-20°	448.5	3.8
20°-30°	739.4	6.3
30°-40°	1107.5	9.4
40°-50°	1610.0	13.6
50°-60°	2248.8	19.1
60°-70°	2815.4	23.9
70°-80°	2328.1	19.7
80°-90°	336.4	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°	11798.0	100.0
0°-180°	11798.0	100.0



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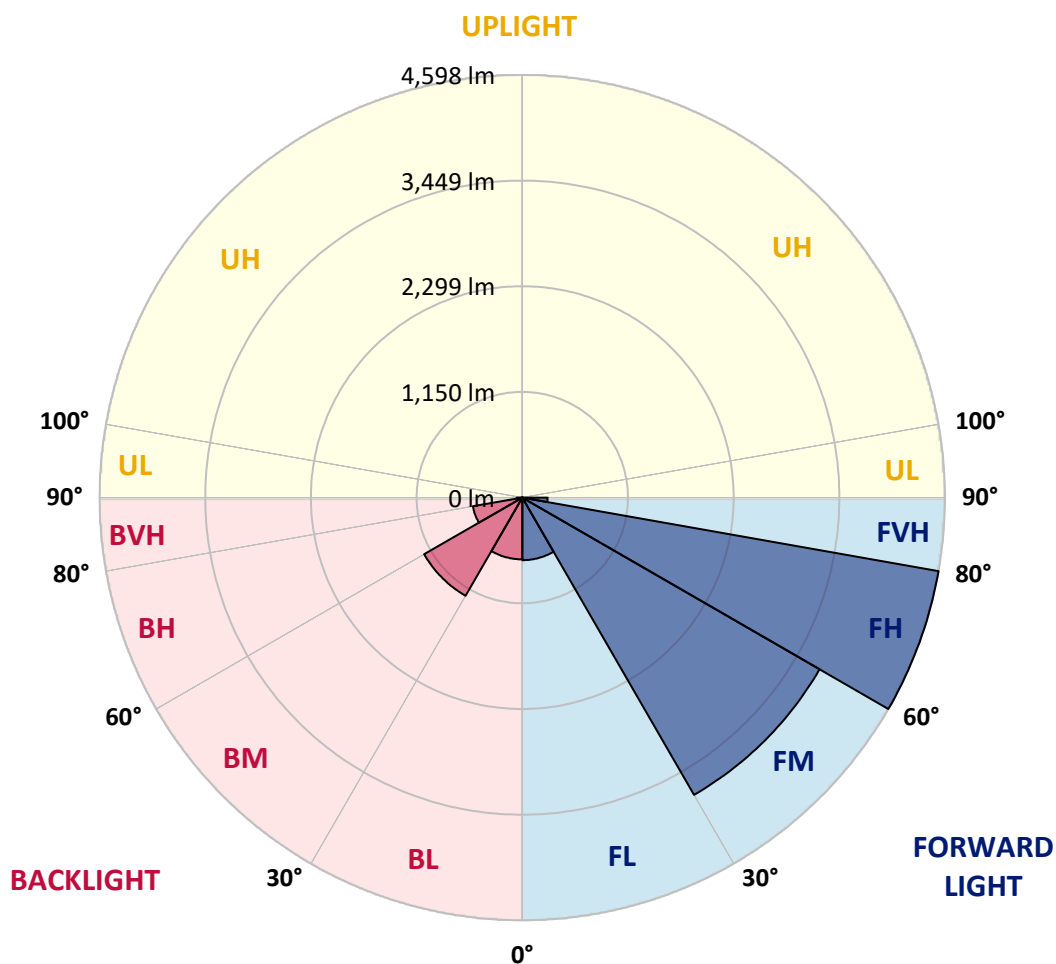
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	680.1	5.8			
FM	(30°-60°)	3733.4	31.6			
FH	(60°-80°)	4598.2	39.0			G2/5000
FVH	(80°-90°)	275.6	2.3			G3/500
BL	(0°-30°)	671.6	5.7	B2/1000		
BM	(30°-60°)	1233.0	10.5	B2/2500		
BH	(60°-80°)	545.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	60.8	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°	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3
2.5°	1664.7	1673.2	1677.8	1694.1	1698.1	1703.3	1717.0	1735.3	1758.8	1779.8	1798.1
5°	1526.2	1539.2	1547.1	1561.5	1589.6	1592.2	1628.8	1670.6	1718.3	1762.8	1799.4
7.5°	1394.8	1409.2	1415.7	1441.8	1479.1	1485.0	1538.6	1604.6	1684.3	1751.6	1807.9
10°	1296.1	1303.3	1317.7	1337.3	1381.7	1385.6	1455.6	1543.8	1647.1	1746.4	1822.2
12.5°	1242.5	1246.4	1249.7	1270.6	1314.4	1320.3	1393.5	1493.5	1617.7	1750.3	1845.8
15°	1250.3	1251.6	1237.3	1241.2	1276.5	1285.0	1357.5	1460.1	1599.4	1760.1	1881.1
17.5°	1316.4	1311.8	1276.5	1258.2	1283.0	1286.9	1350.3	1447.1	1590.9	1778.4	1917.7
20°	1420.3	1413.7	1353.0	1312.4	1326.8	1330.1	1373.9	1456.9	1599.4	1808.5	1974.5
22.5°	1549.7	1547.1	1454.9	1405.9	1405.2	1405.2	1428.1	1492.2	1624.8	1849.7	2034.0
25°	1730.7	1717.0	1596.7	1533.3	1515.7	1514.4	1511.8	1550.3	1657.5	1893.5	2104.6
27.5°	1916.4	1892.8	1785.6	1688.2	1650.3	1645.8	1628.8	1632.7	1699.4	1943.2	2185.0
30°	2083.0	2068.0	1967.3	1859.5	1814.4	1803.9	1756.9	1735.3	1769.3	2032.7	2313.1
32.5°	2210.5	2201.3	2122.9	2024.9	1958.2	1956.2	1887.6	1869.9	1878.4	2141.2	2459.5
35°	2313.7	2317.0	2277.1	2192.2	2115.7	2104.6	2058.8	2036.6	2011.8	2298.1	2643.8
37.5°	2454.9	2462.1	2459.5	2386.3	2292.8	2295.4	2285.0	2248.4	2182.4	2473.2	2848.4
40°	2610.5	2615.7	2615.1	2586.9	2537.9	2540.5	2536.6	2494.8	2396.1	2696.1	3075.8
42.5°	2825.5	2800.7	2736.0	2764.1	2792.8	2805.3	2832.0	2792.2	2656.9	2934.0	3289.6
45°	3066.0	3019.0	2872.6	2885.6	2992.2	3015.7	3163.4	3108.5	2939.9	3207.2	3541.2
47.5°	3217.7	3171.3	3047.7	3045.1	3186.3	3209.2	3470.6	3450.4	3197.4	3502.0	3848.4
50°	3353.0	3346.4	3207.2	3240.5	3378.5	3412.4	3805.3	3786.3	3454.3	3849.7	4183.0
52.5°	3553.6	3500.7	3389.6	3458.2	3640.6	3685.0	4137.3	4081.7	3690.2	4156.9	4507.9
55°	3643.8	3631.4	3624.9	3684.3	3934.7	3966.7	4460.2	4332.7	3891.5	4417.0	4754.9
57.5°	3885.0	3862.1	3926.8	3967.4	4281.1	4330.1	4797.4	4594.8	4068.0	4623.6	4875.2
60°	4197.4	4185.0	4244.5	4317.7	4668.0	4742.5	5181.7	4818.3	4209.8	4727.5	4809.2
62.5°	4664.1	4662.8	4651.7	4808.5	5216.4	5285.0	5622.9	5036.0	4232.1	4649.7	4468.0
65°	5333.4	5309.8	5213.1	5384.4	5898.7	5979.1	6082.4	5157.6	4098.1	4250.4	3762.1
67.5°	6033.4	6032.1	5953.6	6175.9	6878.5	6961.5	6656.9	5130.8	3726.2	3443.2	2671.9
70°	6613.8	6585.7	6685.7	7277.8	8130.1	8226.2	7159.5	4815.1	2968.0	2273.9	1587.6
72.5°	6753.0	6754.3	6962.1	8127.5	9332.1	9347.1	7340.6	3902.6	1986.3	1254.3	794.1
74°	6324.2	6335.3	6657.6	8170.0	9556.3	9488.3	6877.8	3067.3	1343.1	819.0	572.6
75°	5772.6	5702.7	6168.7	7887.0	9323.6	9250.4	6336.0	2461.5	1024.8	654.3	501.3
77.5°	3086.3	3157.5	3876.5	5885.7	7574.6	7490.3	4296.1	1180.4	553.6	455.6	360.8
80°	1098.7	1211.8	1703.3	3079.8	4856.2	4882.4	2050.3	541.2	389.5	336.0	254.9
82.5°	448.4	460.8	731.4	1366.7	2466.0	2489.6	837.3	321.6	278.4	231.4	152.3
85°	175.2	180.4	323.5	614.4	1052.3	1120.9	289.5	169.9	171.2	132.7	77.8
87.5°	58.8	66.7	132.7	204.6	357.5	350.3	84.3	50.3	61.4	57.5	24.2
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°	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3	1801.3
2.5°	1807.2	1819.6	1828.1	1837.3	1845.8	1848.4	1846.4	1852.3	1853.0	1853.6	1854.3
5°	1817.7	1834.7	1851.0	1860.1	1864.1	1860.8	1849.7	1843.8	1838.6	1834.7	1836.0
7.5°	1832.0	1856.2	1871.3	1875.2	1864.7	1849.7	1822.2	1800.7	1786.9	1777.8	1777.1
10°	1854.3	1877.8	1890.2	1879.1	1850.3	1813.7	1770.6	1730.1	1699.4	1690.2	1689.6
12.5°	1882.4	1909.2	1908.5	1875.8	1825.5	1760.1	1690.2	1643.2	1601.3	1580.4	1588.9
15°	1919.0	1939.2	1920.3	1861.5	1781.7	1692.2	1605.9	1541.8	1494.8	1472.6	1473.9
17.5°	1961.5	1979.1	1928.8	1836.0	1720.3	1605.2	1505.2	1444.5	1407.2	1390.9	1389.6
20°	2014.4	2019.6	1928.8	1791.5	1641.2	1503.9	1408.5	1366.0	1345.1	1336.6	1339.2
22.5°	2071.3	2060.8	1918.3	1728.8	1537.3	1398.1	1334.0	1315.0	1304.6	1303.3	1304.6
25°	2135.3	2105.9	1896.7	1643.8	1428.8	1306.5	1269.3	1272.6	1274.5	1274.5	1279.1
27.5°	2213.7	2154.9	1860.8	1536.6	1302.0	1221.6	1211.1	1234.0	1244.5	1246.4	1249.7
30°	2317.0	2208.5	1801.3	1402.6	1194.1	1145.1	1163.4	1194.1	1205.9	1213.1	1211.8
32.5°	2439.9	2267.3	1720.9	1268.6	1107.2	1091.5	1113.7	1145.1	1158.2	1162.1	1156.9
35°	2584.3	2334.0	1615.0	1143.1	1031.4	1040.5	1066.7	1076.5	1088.2	1088.2	1090.9
37.5°	2739.9	2387.6	1485.6	1028.1	972.6	1005.9	1024.8	1015.7	1010.5	1003.9	1007.2
40°	2898.1	2427.5	1317.7	914.4	913.7	969.9	975.2	949.0	928.1	921.6	918.3
42.5°	3036.0	2452.3	1166.0	826.2	858.2	934.6	938.6	896.7	863.4	843.8	837.3
45°	3198.7	2481.1	1017.7	752.9	806.5	906.5	916.3	860.1	811.1	769.9	759.5
47.5°	3421.6	2546.4	900.7	696.1	769.3	888.9	902.6	830.1	765.4	711.8	703.3
50°	3673.2	2636.0	809.8	657.5	740.5	873.2	890.2	799.4	722.9	663.4	656.9
52.5°	3904.0	2684.3	731.4	622.9	712.4	844.5	873.9	777.1	681.1	615.0	609.2
55°	4030.1	2605.9	654.3	588.9	673.9	807.2	851.0	746.4	640.5	589.5	581.1
57.5°	4047.1	2443.8	584.3	552.3	633.3	761.4	808.5	709.2	614.4	571.9	564.7
60°	3915.7	2202.0	530.1	522.2	592.2	709.8	760.8	676.5	587.6	552.3	545.1
62.5°	3588.9	1939.2	492.2	494.8	550.3	655.6	725.5	645.1	562.1	530.7	524.2
65°	3026.8	1600.7	455.6	466.7	513.1	613.1	693.5	619.0	536.6	514.4	508.5
67.5°	2102.6	1155.6	425.5	437.3	477.8	569.9	656.2	590.9	507.8	496.1	486.9
70°	1164.1	711.1	390.2	403.9	441.2	521.6	614.4	548.4	466.0	460.8	447.7
72.5°	611.8	452.9	350.3	365.4	391.5	459.5	550.3	502.0	424.8	402.6	385.6
74°	477.8	371.2	323.5	339.2	356.9	422.9	512.4	468.6	395.4	369.3	356.2
75°	416.3	330.7	300.7	320.9	336.6	398.0	483.0	445.1	379.1	354.3	342.5
77.5°	294.1	247.7	245.8	269.9	278.4	349.0	435.3	405.2	337.9	311.8	300.7
80°	206.5	185.6	194.8	209.8	221.6	308.5	403.9	350.3	277.1	246.4	242.5
82.5°	134.6	121.6	139.2	152.9	156.9	227.5	326.1	266.0	202.0	164.1	152.3
85°	62.1	60.8	79.7	77.8	77.1	111.1	193.5	155.6	116.3	86.9	81.7
87.5°	15.7	15.0	19.6	16.3	19.6	17.0	17.6	4.6	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)