

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: P451604

Luminaire Tested: **GALN-SA2C-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451604
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-SA2C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11725 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

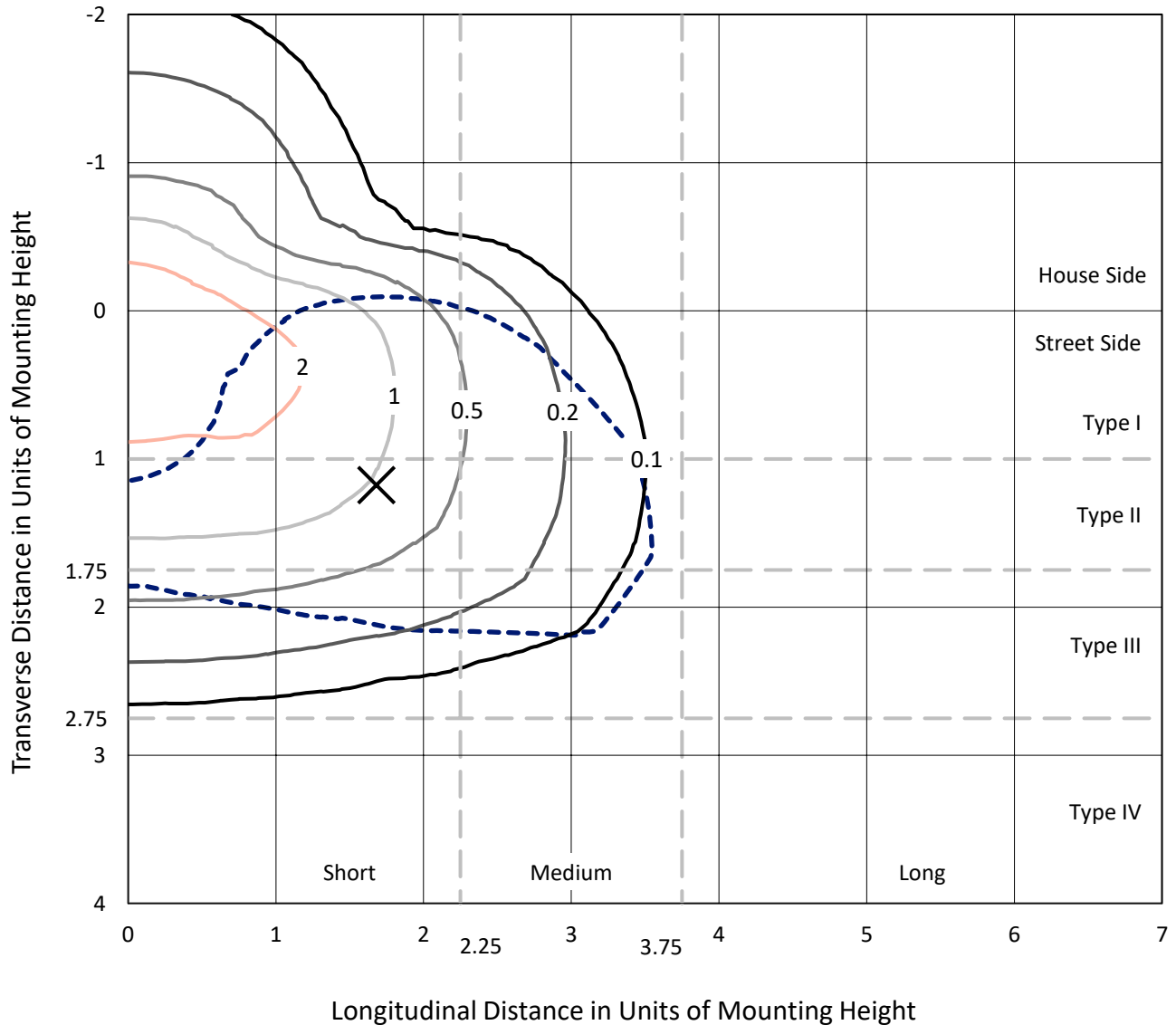
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451604
 CATALOG NUMBER: GALN-SA2C-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

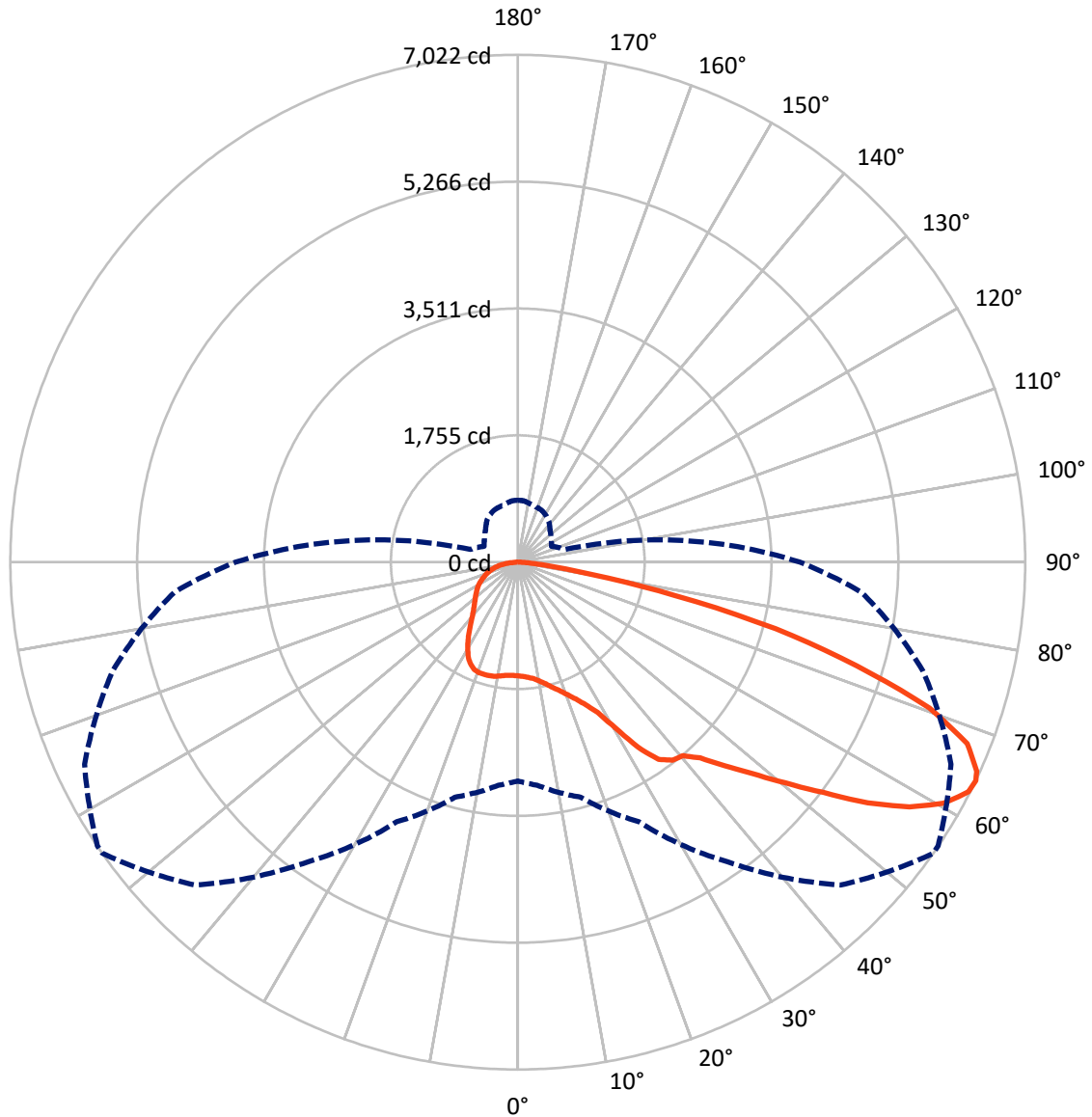
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

REPORT NUMBER: P451604
CATALOG NUMBER: GALN-SA2C-727-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451604

CATALOG NUMBER: GALN-SA2C-727-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2848.2	0.0	2848.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	8876.8	0.0	8876.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	11725.0	0.0	11725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	1.3
10°-20°	482.8	4.1
20°-30°	859.6	7.3
30°-40°	1322.6	11.3
40°-50°	1874.8	16.0
50°-60°	2713.8	23.1
60°-70°	2808.5	24.0
70°-80°	1315.2	11.2
80°-90°	194.7	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°	11725.0	100.0
0°-180°	11725.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451604

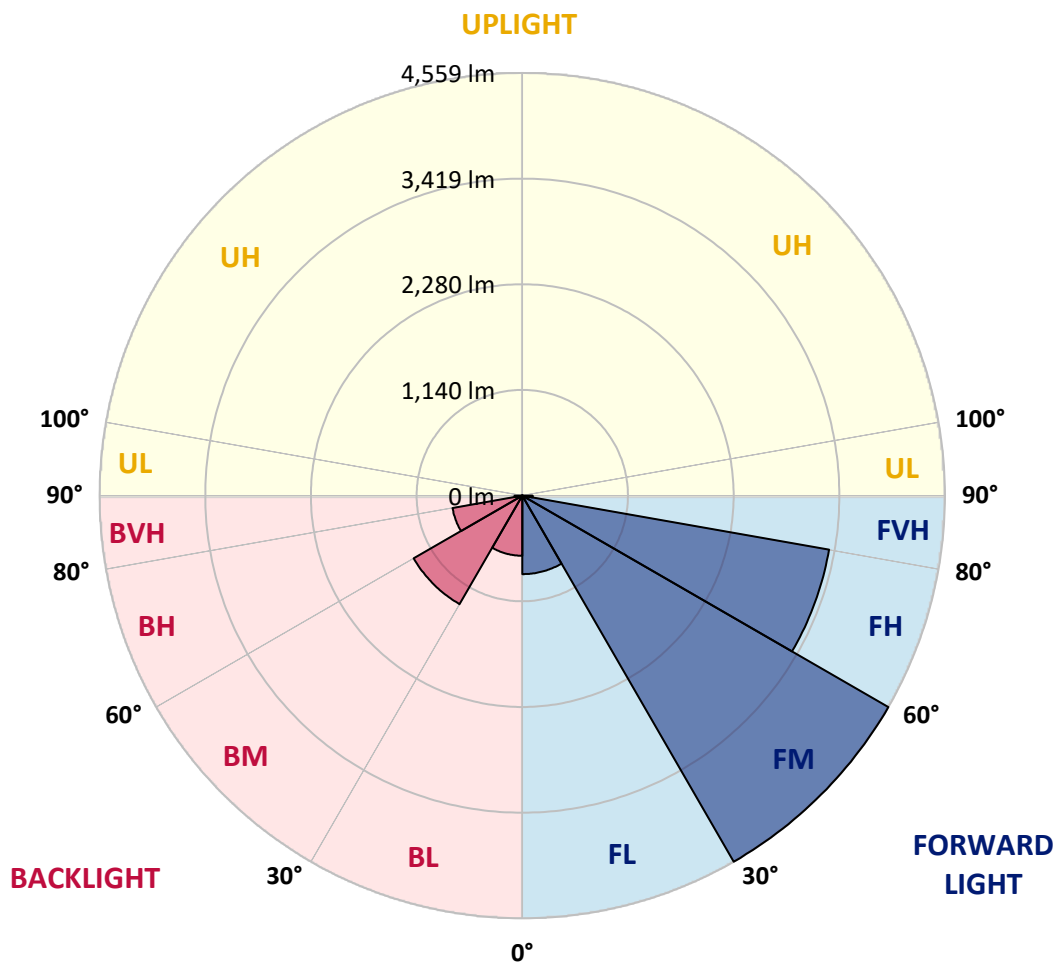
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	846.7	7.2			
FM	(30°-60°)	4559.0	38.9			
FH	(60°-80°)	3359.6	28.7			G2/5000
FVH	(80°-90°)	111.5	1.0			G2/225
BL	(0°-30°)	648.7	5.5	B2/1000		
BM	(30°-60°)	1352.2	11.5	B2/2500		
BH	(60°-80°)	764.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	83.2	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





REPORT NUMBER: P451604

CATALOG NUMBER: GALN-SA2C-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1
2.5°	1590.8	1590.1	1592.1	1590.1	1591.4	1586.9	1584.9	1586.2	1584.3	1581.0	1575.1
5°	1610.4	1609.7	1610.4	1607.8	1609.1	1606.5	1601.9	1603.2	1599.9	1592.7	1584.3
7.5°	1643.7	1641.1	1641.1	1640.5	1637.8	1633.9	1630.7	1629.3	1626.1	1616.9	1603.9
10°	1686.9	1686.9	1687.5	1682.3	1685.6	1678.4	1675.1	1674.4	1663.3	1651.6	1633.3
12.5°	1743.7	1747.0	1745.0	1742.4	1741.1	1738.5	1727.4	1730.0	1717.6	1697.3	1675.1
15°	1814.3	1819.5	1816.3	1815.0	1811.7	1801.9	1797.3	1795.4	1779.0	1749.6	1720.2
17.5°	1907.8	1901.2	1898.6	1895.4	1881.6	1874.4	1866.6	1865.3	1850.9	1816.3	1770.5
20°	1989.5	1998.6	1993.4	1990.1	1976.4	1962.7	1956.8	1954.8	1942.4	1904.5	1831.3
22.5°	2086.8	2088.8	2090.8	2082.9	2076.4	2065.9	2055.5	2052.2	2047.6	2008.4	1918.9
25°	2190.8	2198.6	2192.1	2184.2	2176.4	2175.7	2185.5	2184.2	2182.3	2144.4	2035.2
27.5°	2360.0	2367.2	2369.2	2360.7	2330.6	2333.2	2355.5	2362.7	2392.7	2330.0	2184.9
30°	2455.5	2462.6	2479.0	2511.0	2558.7	2600.6	2654.1	2670.5	2699.2	2580.9	2362.7
32.5°	2514.3	2516.9	2546.3	2605.8	2748.9	2905.1	3050.9	3056.7	3075.0	2909.0	2525.4
35°	2607.1	2609.0	2632.6	2697.9	2865.9	3126.0	3351.5	3358.7	3343.7	3011.0	2601.2
37.5°	2721.5	2726.7	2741.7	2796.0	2996.6	3311.0	3476.3	3471.1	3337.8	3092.0	2735.2
40°	2888.1	2888.1	2870.5	2943.7	3134.5	3416.9	3520.1	3511.0	3475.7	3326.7	2939.1
42.5°	3035.2	3032.6	3074.4	3124.1	3307.1	3580.3	3703.8	3718.8	3777.0	3621.4	3171.1
45°	3226.7	3238.4	3262.0	3352.2	3600.5	3859.3	4018.8	4033.2	4115.5	3968.5	3442.3
47.5°	3420.1	3424.0	3497.9	3618.2	3963.9	4237.7	4368.5	4392.0	4467.1	4374.3	3734.5
50°	3557.4	3594.6	3712.9	3902.5	4338.4	4699.2	4801.1	4829.2	4961.9	4816.2	4075.0
52.5°	3702.5	3739.1	3883.5	4172.4	4768.4	5171.0	5296.5	5315.5	5453.4	5263.2	4423.4
55°	3826.6	3860.6	4024.7	4411.6	5110.9	5652.7	5880.2	5857.9	5924.0	5607.6	4692.0
57.5°	3846.9	3874.4	4080.9	4564.5	5368.4	6065.8	6391.9	6405.0	6328.5	5865.1	4913.5
60°	3690.1	3746.3	3983.5	4548.2	5484.1	6353.3	6773.6	6782.7	6565.8	5997.2	5001.8
62.5°	3412.3	3406.4	3693.3	4285.5	5322.0	6418.7	6998.4	6988.6	6658.6	5933.8	4916.1
64°	3028.6	3099.2	3367.2	3962.6	5060.6	6318.1	7021.9	7016.7	6614.1	5801.7	4770.4
65°	2794.7	2790.7	3055.4	3698.5	4800.5	6166.4	6980.1	6972.9	6521.3	5683.4	4657.3
67.5°	2017.6	2026.7	2288.1	2854.1	3902.5	5573.6	6707.6	6680.8	6155.3	5291.3	4227.3
70°	1222.2	1227.4	1432.6	1893.4	2801.2	4505.7	6046.2	6047.5	5595.2	4705.7	3597.9
72.5°	643.8	657.5	739.8	1075.1	1701.2	3161.3	4905.0	5021.4	4803.7	4016.2	2842.4
75°	358.2	360.1	418.3	530.0	867.9	1769.2	3686.8	3720.1	3803.1	3232.6	2101.9
77.5°	273.2	277.1	295.4	342.5	472.5	820.2	2231.3	2398.6	2680.3	2279.0	1199.3
80°	221.6	225.5	241.2	269.3	314.4	388.9	1036.6	1126.8	1434.6	1011.7	468.0
82.5°	172.5	169.9	190.2	208.5	228.7	230.1	425.5	470.6	584.3	435.3	202.6
85°	128.1	128.1	144.4	140.5	147.7	134.6	187.6	207.2	234.0	185.0	94.1
87.5°	51.0	56.2	94.8	85.0	66.0	52.9	69.3	73.2	81.0	72.5	39.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451604
 CATALOG NUMBER: GALN-SA2C-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1	1573.1
2.5°	1575.8	1577.7	1573.1	1569.9	1568.6	1566.6	1564.6	1565.3	1567.9	1570.5	1569.9
5°	1583.6	1584.3	1576.4	1572.5	1569.9	1567.3	1567.3	1569.2	1574.4	1578.4	1578.4
7.5°	1603.2	1603.2	1592.1	1584.9	1581.0	1576.4	1575.1	1575.8	1579.7	1584.9	1585.6
10°	1633.9	1631.3	1616.9	1605.8	1598.6	1587.5	1577.7	1572.5	1574.4	1577.7	1577.7
12.5°	1671.2	1664.0	1645.7	1630.7	1613.0	1592.1	1571.8	1561.4	1560.7	1564.0	1562.7
15°	1711.0	1703.2	1677.7	1650.3	1619.5	1588.8	1564.6	1549.6	1537.8	1534.6	1541.8
17.5°	1757.4	1741.1	1705.8	1667.9	1622.2	1582.3	1544.4	1513.7	1492.8	1486.9	1488.8
20°	1813.7	1792.1	1744.4	1684.9	1620.2	1558.8	1499.9	1458.8	1424.8	1414.3	1415.6
22.5°	1891.4	1854.2	1784.2	1693.4	1603.9	1514.3	1432.6	1379.0	1337.9	1321.5	1331.3
25°	1979.7	1939.1	1822.2	1691.4	1561.4	1443.1	1352.9	1283.0	1245.7	1221.5	1226.7
27.5°	2101.2	2029.3	1862.7	1673.8	1500.6	1356.2	1251.6	1185.6	1151.6	1139.2	1145.1
30°	2256.8	2146.3	1906.5	1626.1	1404.5	1246.4	1149.6	1106.5	1086.2	1070.5	1075.8
32.5°	2369.2	2228.7	1916.3	1545.7	1300.6	1146.4	1080.3	1048.3	1026.1	1011.1	1014.3
35°	2449.6	2298.6	1911.7	1447.0	1192.1	1064.0	1025.5	999.3	963.4	930.7	924.8
37.5°	2557.4	2386.2	1878.4	1339.2	1084.9	1008.5	981.0	932.6	881.0	837.2	835.3
40°	2722.8	2488.8	1807.1	1212.4	993.4	967.3	934.0	871.2	815.7	780.4	777.7
42.5°	2893.4	2583.6	1710.4	1079.0	918.3	924.1	883.6	821.5	787.6	764.7	762.1
45°	3101.8	2686.2	1605.8	963.4	862.7	883.6	839.8	803.9	783.6	768.6	764.7
47.5°	3327.3	2791.4	1488.2	859.4	815.7	846.4	821.5	805.2	794.1	783.6	779.1
50°	3570.4	2909.0	1377.7	775.8	773.2	807.8	819.6	813.7	807.2	803.9	800.0
52.5°	3837.1	3029.3	1284.9	717.0	735.9	780.4	820.2	824.8	824.8	822.8	820.2
55°	4017.5	3113.0	1190.8	669.3	698.0	758.1	818.9	836.6	843.1	840.5	837.9
57.5°	4150.8	3158.7	1072.5	628.1	666.0	736.6	811.7	837.9	844.4	847.7	846.4
60°	4178.3	3116.2	917.6	584.9	631.3	705.2	785.6	818.3	826.8	847.0	849.0
62.5°	4054.7	2985.5	763.4	542.5	588.9	657.5	750.3	796.0	813.0	844.4	847.7
64°	3903.1	2839.1	677.8	515.7	561.4	630.7	732.7	790.2	812.4	854.2	856.8
65°	3792.0	2732.6	624.2	498.7	543.8	613.0	722.8	792.1	818.3	869.2	873.2
67.5°	3382.9	2365.9	516.3	458.8	501.9	583.0	724.8	808.5	817.0	875.1	874.5
70°	2799.2	1883.6	432.7	422.2	461.4	558.8	717.0	782.3	783.0	821.5	812.4
72.5°	2096.0	1392.1	375.1	384.3	416.3	501.3	677.1	747.0	735.9	741.1	732.0
75°	1439.8	920.9	322.9	343.8	369.3	443.1	620.9	678.4	660.8	654.2	647.7
77.5°	768.6	509.1	268.6	303.9	320.9	383.0	541.8	597.4	579.1	553.6	545.1
80°	311.1	239.9	216.3	251.6	261.4	308.5	451.0	485.6	471.9	427.4	413.1
82.5°	156.2	143.8	169.9	198.0	198.7	220.3	335.3	368.0	337.2	283.0	270.6
85°	81.7	84.3	117.0	139.2	122.9	118.9	201.3	222.9	204.6	177.8	160.1
87.5°	29.4	34.0	61.4	60.8	43.1	22.9	44.4	21.6	11.8	7.2	9.1
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)