

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: P647305

Luminaire Tested: **GALN-SA2D-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647305
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-SA2D-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA 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: 12153.7 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

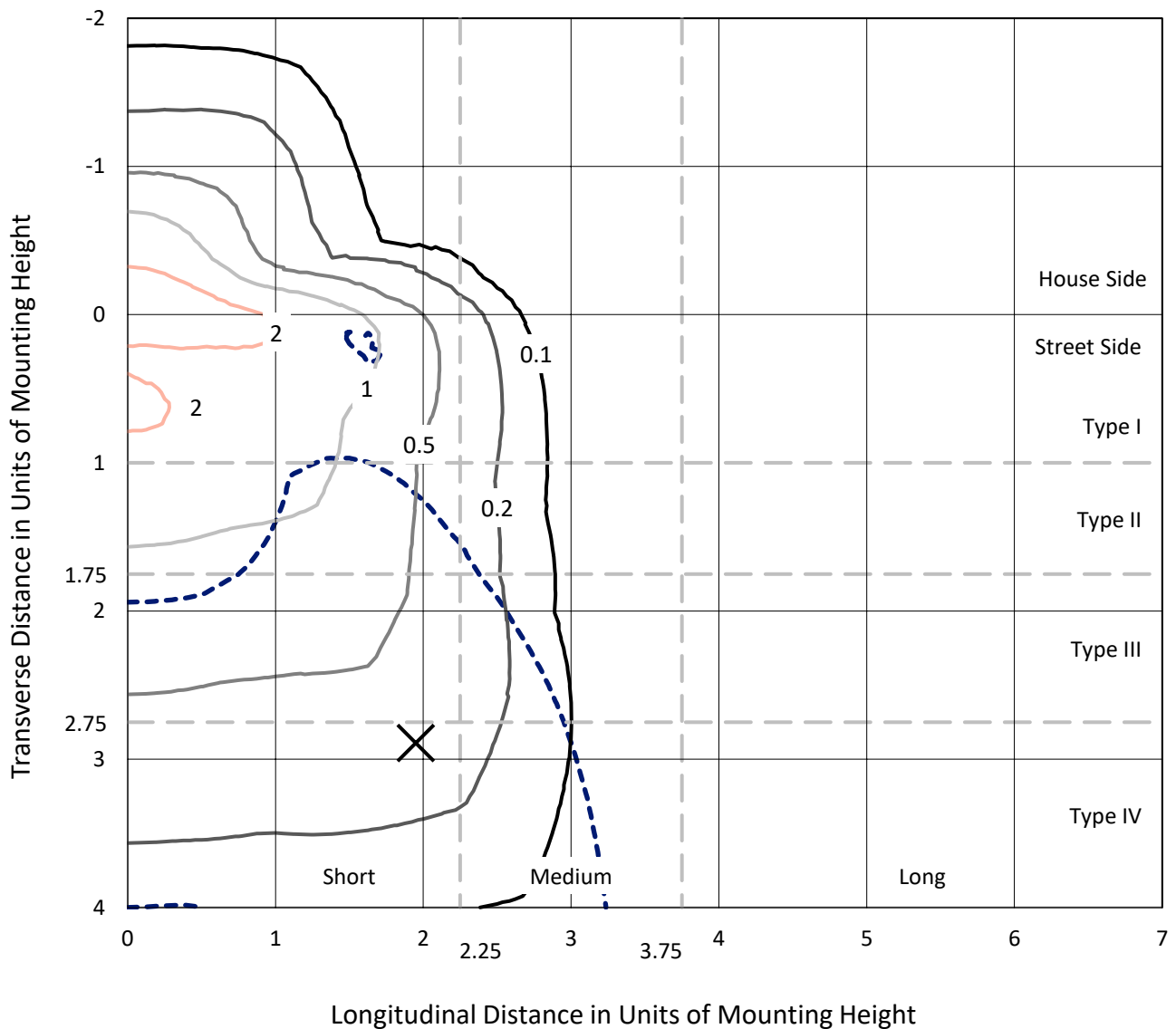
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

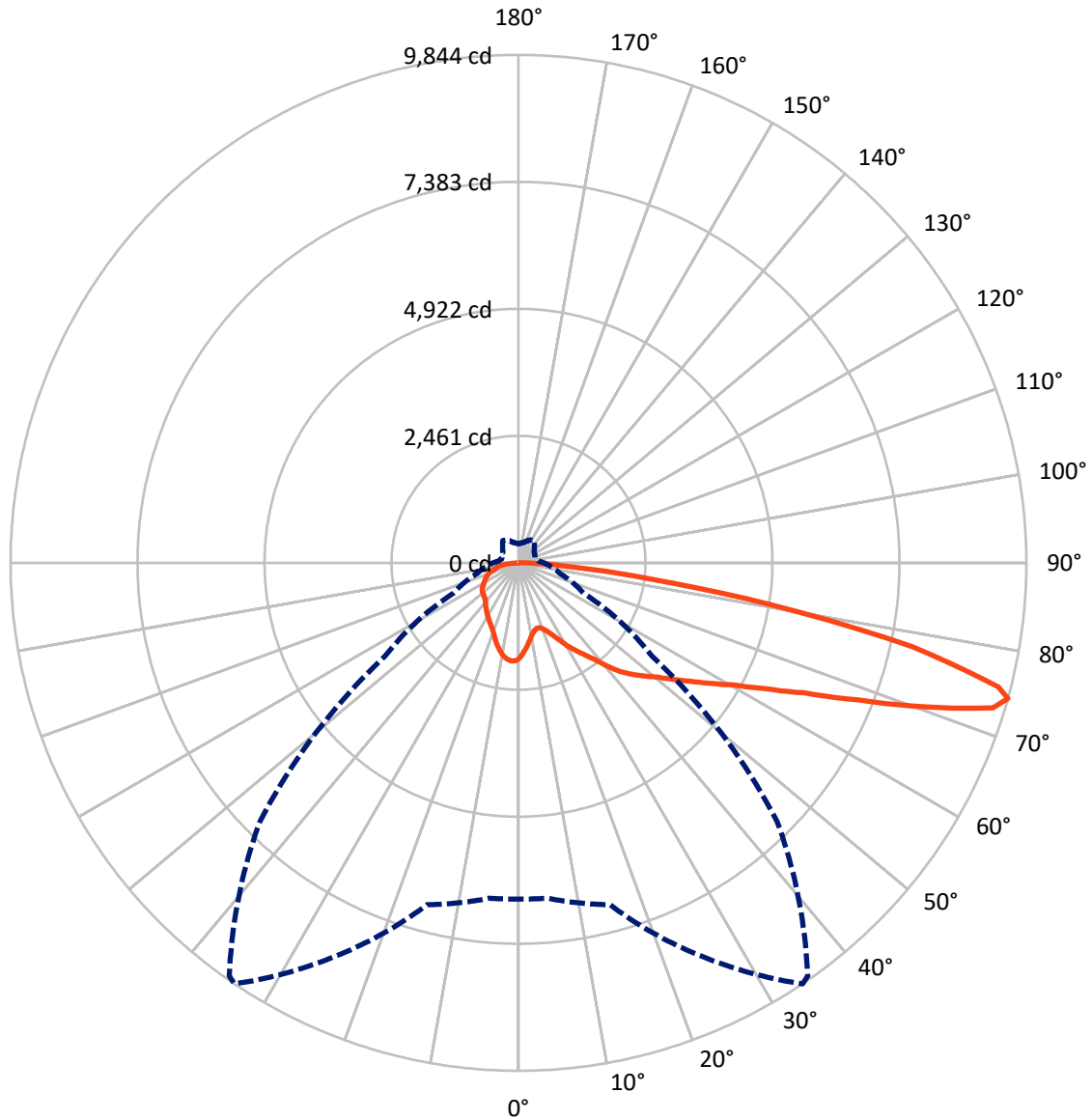
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type 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	2586.4	0.0	2586.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	9567.3	0.0	9567.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	12153.7	0.0	12153.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	1.4
10°-20°	462.0	3.8
20°-30°	761.7	6.3
30°-40°	1140.9	9.4
40°-50°	1658.6	13.6
50°-60°	2316.6	19.1
60°-70°	2900.3	23.9
70°-80°	2398.3	19.7
80°-90°	346.5	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°	12153.7	100.0
0°-180°	12153.7	100.0

Coefficient of Utilization



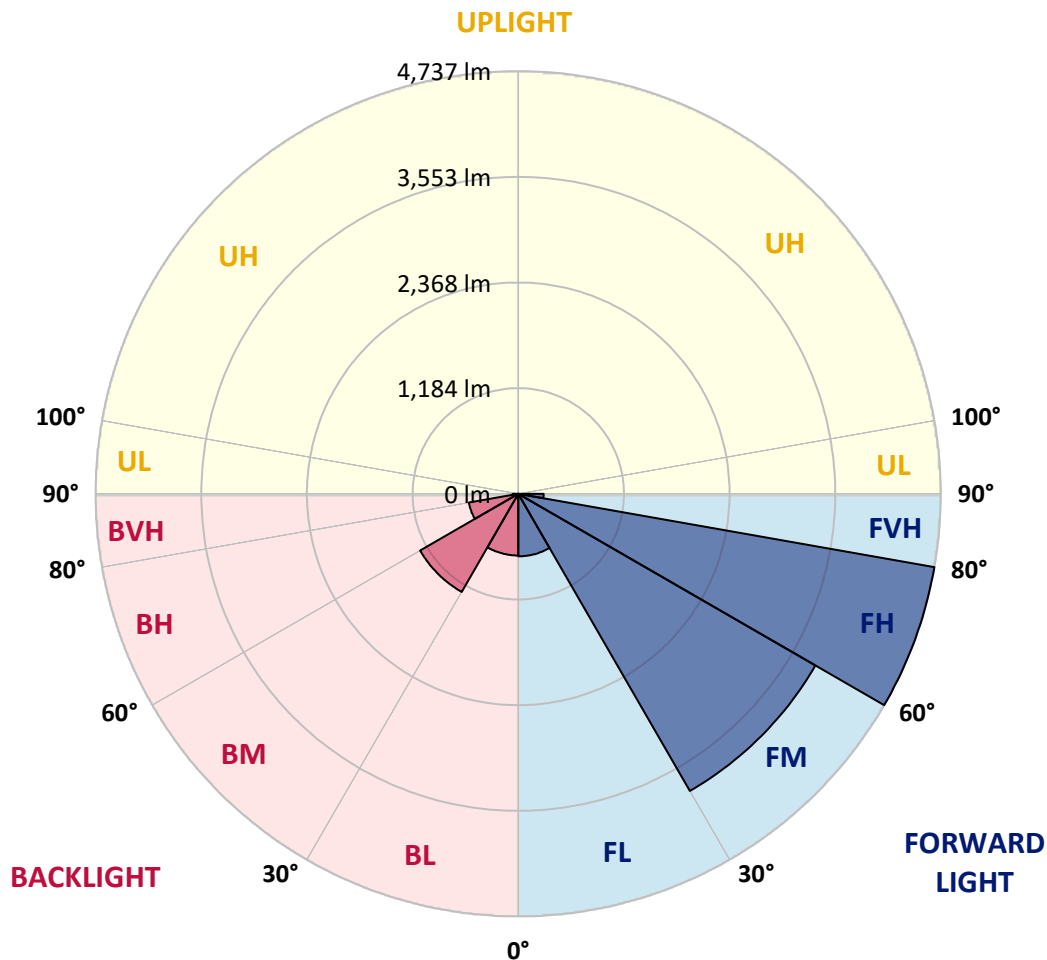
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.6	5.8			
FM (30°-60°)	3845.9	31.6			
FH (60°-80°)	4736.9	39.0			G2/5000
FVH (80°-90°)	283.9	2.3			G3/500
BL (0°-30°)	691.8	5.7	B2/1000		
BM (30°-60°)	1270.2	10.5	B2/2500		
BH (60°-80°)	561.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	62.6	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°	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6
2.5°	1714.9	1723.7	1728.4	1745.2	1749.2	1754.6	1768.8	1787.7	1811.9	1833.4	1852.3
5°	1572.2	1585.7	1593.7	1608.5	1637.5	1640.2	1677.9	1721.0	1770.1	1815.9	1853.6
7.5°	1436.8	1451.7	1458.4	1485.4	1523.7	1529.7	1584.9	1653.0	1735.1	1804.4	1862.4
10°	1335.2	1342.6	1357.4	1377.6	1423.3	1427.4	1499.4	1590.4	1696.8	1799.1	1877.2
12.5°	1280.0	1284.0	1287.3	1308.9	1354.0	1360.1	1435.5	1538.5	1666.5	1803.1	1901.4
15°	1288.0	1289.4	1274.6	1278.6	1315.0	1323.7	1398.4	1504.1	1647.6	1813.2	1937.8
17.5°	1356.1	1351.3	1315.0	1296.1	1321.7	1325.8	1391.1	1490.7	1638.8	1832.1	1975.5
20°	1463.1	1456.4	1393.7	1352.0	1366.8	1370.2	1415.3	1500.8	1647.6	1863.1	2034.1
22.5°	1596.4	1593.7	1498.8	1448.3	1447.6	1447.6	1471.2	1537.2	1673.8	1905.4	2095.3
25°	1782.9	1768.8	1644.9	1579.5	1561.4	1560.0	1557.4	1597.1	1707.5	1950.5	2168.0
27.5°	1974.1	1949.9	1839.5	1739.1	1700.1	1695.4	1677.9	1681.9	1750.6	2001.7	2250.9
30°	2145.8	2130.3	2026.6	1915.5	1869.1	1858.3	1809.8	1787.7	1822.7	2094.0	2382.8
32.5°	2277.1	2267.7	2186.9	2085.9	2017.2	2015.2	1944.5	1926.3	1935.1	2205.8	2533.6
35°	2383.5	2386.9	2345.8	2258.3	2179.5	2168.0	2120.9	2098.0	2072.4	2367.3	2723.5
37.5°	2528.9	2536.4	2533.6	2458.2	2362.0	2364.7	2353.9	2316.2	2248.1	2547.8	2934.3
40°	2689.2	2694.5	2693.9	2664.9	2614.4	2617.2	2613.1	2570.0	2468.3	2777.4	3168.6
42.5°	2910.7	2885.1	2818.5	2847.4	2877.1	2889.8	2917.5	2876.4	2737.0	3022.5	3388.7
45°	3158.5	3110.0	2959.2	2972.7	3082.4	3106.6	3258.8	3202.2	3028.6	3303.9	3648.0
47.5°	3314.7	3266.9	3139.6	3136.9	3282.3	3305.9	3575.3	3554.4	3293.8	3607.6	3964.4
50°	3454.0	3447.3	3303.9	3338.2	3480.4	3515.4	3920.0	3900.4	3558.4	3965.7	4309.2
52.5°	3660.8	3606.3	3491.8	3562.5	3750.3	3796.1	4262.0	4204.8	3801.5	4282.2	4643.8
55°	3753.7	3740.9	3734.1	3795.4	4053.3	4086.3	4594.6	4463.3	4008.9	4550.2	4898.3
57.5°	4002.1	3978.6	4045.2	4086.9	4410.2	4460.7	4942.1	4733.3	4190.7	4763.0	5022.2
60°	4324.0	4311.2	4372.4	4447.8	4808.8	4885.5	5337.9	4963.6	4336.8	4870.0	4954.2
62.5°	4804.7	4803.4	4792.0	4953.5	5373.7	5444.4	5792.5	5187.8	4359.7	4789.9	4602.7
65°	5494.2	5470.0	5370.3	5546.7	6076.6	6159.4	6265.8	5313.0	4221.6	4378.5	3875.5
67.5°	6215.3	6214.0	6133.2	6362.1	7085.9	7171.4	6857.6	5285.5	3838.5	3547.0	2752.5
70°	6813.2	6784.2	6887.3	7497.3	8375.3	8474.3	7375.4	4960.2	3057.5	2342.4	1635.5
72.5°	6956.6	6958.0	7172.0	8372.5	9613.4	9628.9	7561.9	4020.3	2046.2	1292.1	818.1
74°	6515.0	6526.4	6858.3	8416.3	9844.4	9774.4	7085.2	3159.8	1383.6	843.7	589.8
75°	5946.7	5874.6	6354.7	8124.8	9604.7	9529.3	6527.0	2535.7	1055.7	674.0	516.4
77.5°	3179.4	3252.7	3993.4	6063.2	7803.0	7716.1	4425.7	1216.0	570.3	469.3	371.7
80°	1131.8	1248.3	1754.6	3172.6	5002.7	5029.6	2112.1	557.5	401.3	346.1	262.6
82.5°	461.9	474.7	753.4	1407.9	2540.4	2564.6	862.5	331.3	286.8	238.3	156.9
85°	180.5	185.8	333.3	632.9	1084.0	1154.7	298.2	175.1	176.4	136.7	80.1
87.5°	60.6	68.7	136.7	210.8	368.3	360.9	86.8	51.8	63.3	59.3	24.9
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°	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6	1855.6
2.5°	1861.7	1874.5	1883.3	1892.7	1901.4	1904.1	1902.1	1908.2	1908.8	1909.5	1910.2
5°	1872.5	1890.0	1906.8	1916.2	1920.3	1916.9	1905.4	1899.4	1894.0	1890.0	1891.3
7.5°	1887.3	1912.2	1927.7	1931.7	1920.9	1905.4	1877.2	1854.9	1840.8	1831.4	1830.7
10°	1910.2	1934.4	1947.2	1935.7	1906.1	1868.4	1824.0	1782.3	1750.6	1741.2	1740.5
12.5°	1939.1	1966.7	1966.0	1932.4	1880.5	1813.2	1741.2	1692.7	1649.6	1628.1	1636.8
15°	1976.8	1997.7	1978.2	1917.6	1835.4	1743.2	1654.3	1588.3	1539.8	1517.0	1518.3
17.5°	2020.6	2038.8	1986.9	1891.3	1772.2	1653.6	1550.7	1488.0	1449.6	1432.8	1431.5
20°	2075.1	2080.5	1986.9	1845.5	1690.7	1549.2	1451.0	1407.2	1385.7	1376.9	1379.6
22.5°	2133.7	2122.9	1976.1	1780.9	1583.6	1440.2	1374.2	1354.7	1343.9	1342.6	1343.9
25°	2199.7	2169.4	1953.9	1693.4	1471.9	1346.0	1307.5	1310.9	1312.9	1312.9	1317.6
27.5°	2280.5	2219.9	1916.9	1582.9	1341.2	1258.4	1247.6	1271.2	1282.0	1284.0	1287.3
30°	2386.9	2275.1	1855.6	1444.9	1230.1	1179.7	1198.5	1230.1	1242.2	1249.7	1248.3
32.5°	2513.4	2335.7	1772.8	1306.9	1140.6	1124.4	1147.3	1179.7	1193.1	1197.1	1191.7
35°	2662.3	2404.4	1663.7	1177.6	1062.5	1071.9	1098.9	1109.0	1121.0	1121.0	1123.8
37.5°	2822.5	2459.6	1530.5	1059.1	1001.8	1036.2	1055.7	1046.3	1040.9	1034.2	1037.6
40°	2985.4	2500.7	1357.4	941.9	941.2	999.2	1004.6	977.7	956.1	949.4	946.0
42.5°	3127.5	2526.3	1201.2	851.0	884.1	962.9	966.8	923.8	889.4	869.2	862.5
45°	3295.2	2555.9	1048.4	775.6	830.8	933.9	944.0	886.0	835.5	793.2	782.4
47.5°	3524.8	2623.2	927.9	717.1	792.5	915.7	929.8	855.1	788.5	733.2	724.5
50°	3784.0	2715.4	834.2	677.4	762.9	899.5	917.0	823.5	744.7	683.4	676.7
52.5°	4021.6	2765.2	753.4	641.7	733.9	869.9	900.2	800.5	701.6	633.6	627.5
55°	4151.6	2684.4	674.0	606.7	694.2	831.5	876.6	768.9	659.8	607.3	598.6
57.5°	4169.1	2517.5	602.0	568.9	652.4	784.4	832.9	730.5	632.9	589.1	581.8
60°	4033.8	2268.4	546.1	538.0	610.0	731.2	783.7	696.9	605.3	568.9	561.6
62.5°	3697.1	1997.7	507.0	509.7	566.9	675.3	747.4	664.5	579.0	546.7	540.0
65°	3118.1	1648.9	469.3	480.8	528.5	631.6	714.4	637.6	552.8	529.9	523.8
67.5°	2166.0	1190.4	438.3	450.5	492.2	587.1	676.0	608.7	523.1	511.1	501.6
70°	1199.2	732.6	402.0	416.1	454.5	537.3	632.9	564.9	480.1	474.7	461.2
72.5°	630.2	466.6	360.9	376.4	403.3	473.3	566.9	517.1	437.6	414.8	397.2
74°	492.2	382.4	333.3	349.5	367.6	435.7	527.9	482.8	407.3	380.4	366.9
75°	428.9	340.7	309.8	330.6	346.8	410.1	497.6	458.5	390.5	365.0	352.8
77.5°	303.0	255.2	253.1	278.0	286.8	359.6	448.4	417.4	348.1	321.2	309.8
80°	212.7	191.2	200.7	216.1	228.2	317.8	416.1	360.9	285.5	253.8	249.8
82.5°	138.7	125.2	143.4	157.5	161.6	234.3	336.0	274.0	208.0	169.0	156.9
85°	64.0	62.6	82.1	80.1	79.5	114.5	199.3	160.3	119.9	89.6	84.2
87.5°	16.1	15.5	20.2	16.8	20.2	17.5	18.2	4.7	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)