

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: P451637

Luminaire Tested: **GALN-SA2C-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451637
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-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 12847 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

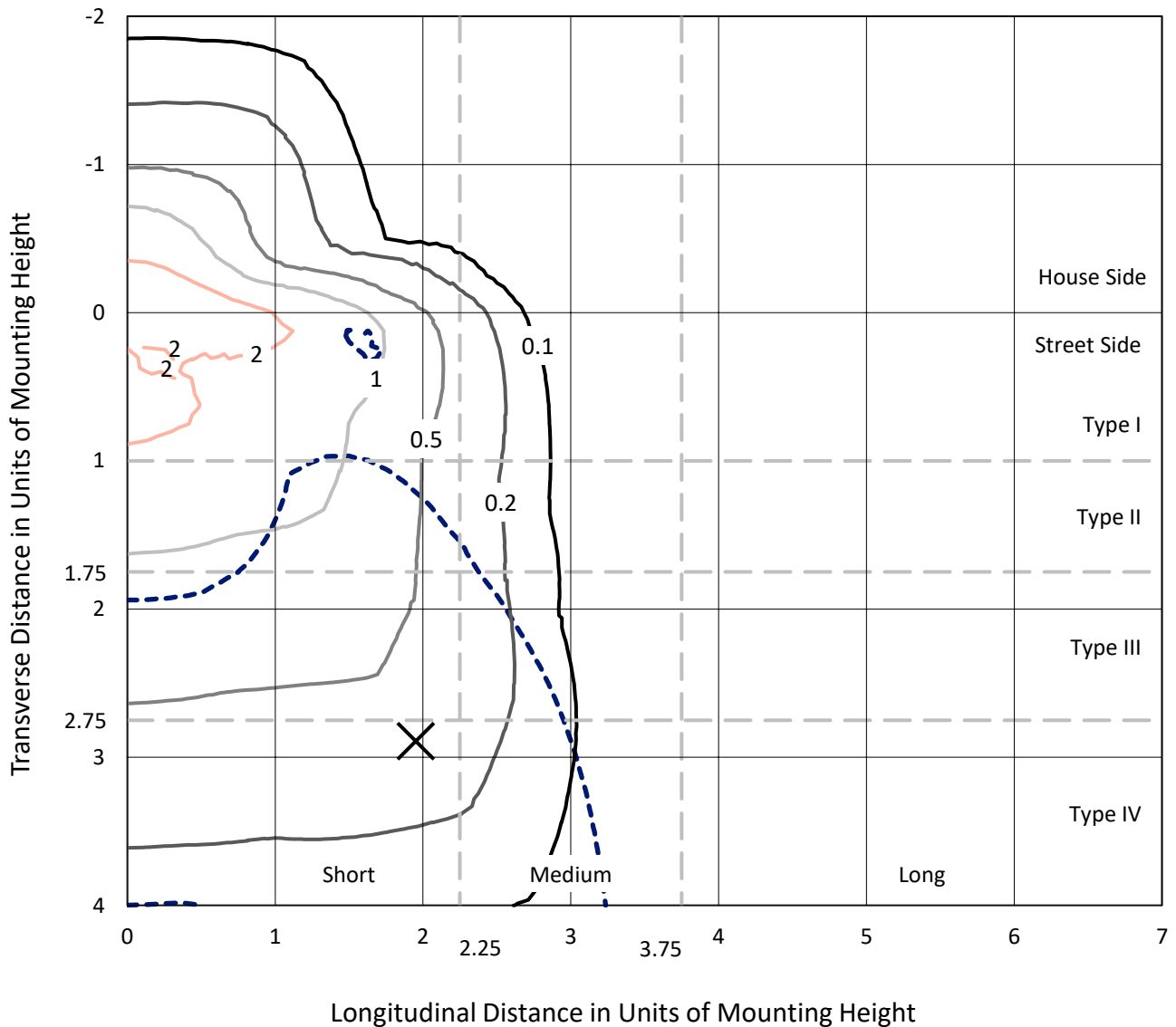
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451637
 CATALOG NUMBER: GALN-SA2C-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

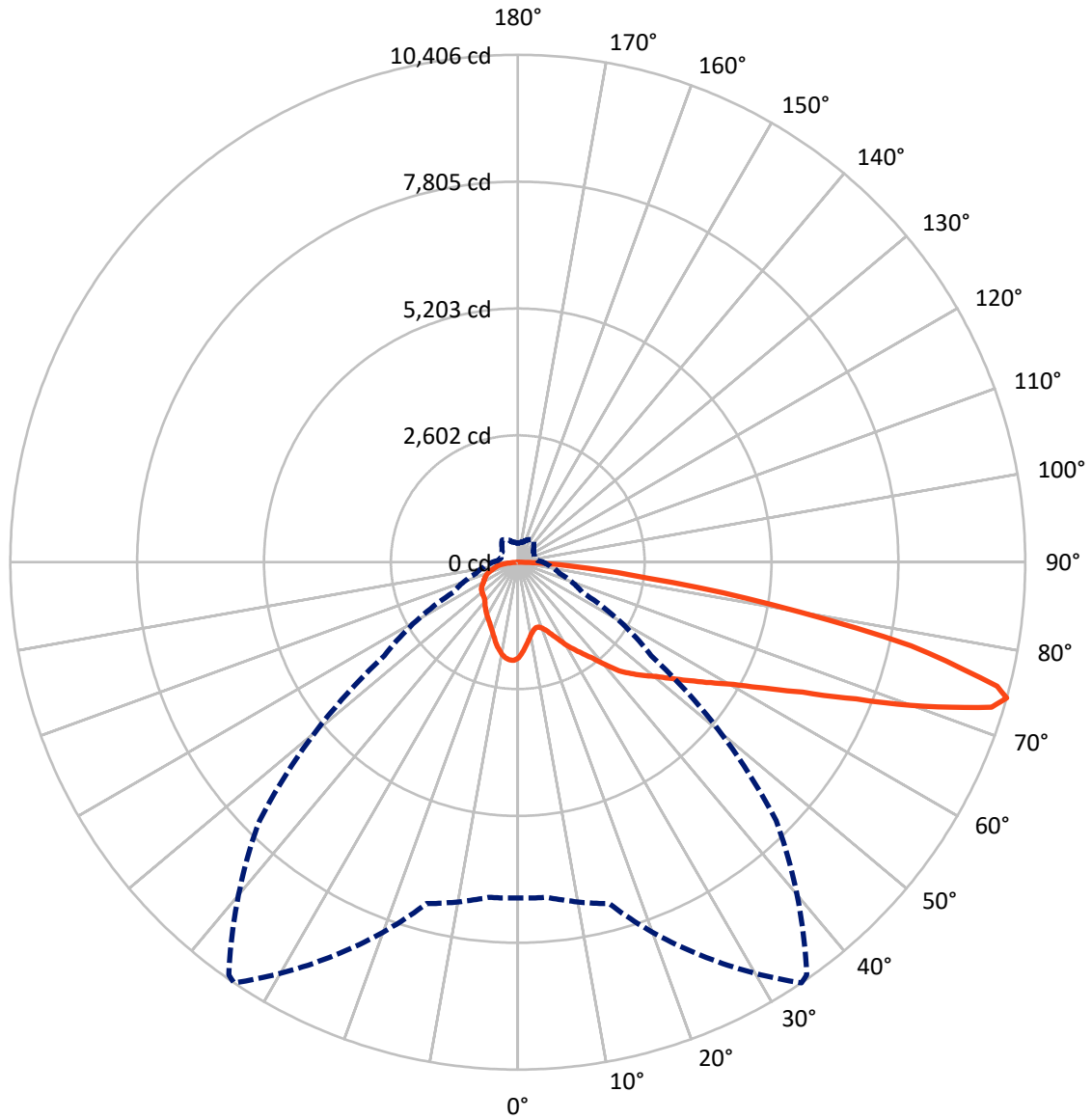
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P451637
CATALOG NUMBER: GALN-SA2C-730-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451637

CATALOG NUMBER: GALN-SA2C-730-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2733.9	0.0	2733.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	10113.1	0.0	10113.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	12847.0	0.0	12847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	1.4
10°-20°	488.3	3.8
20°-30°	805.1	6.3
30°-40°	1206.0	9.4
40°-50°	1753.2	13.6
50°-60°	2448.8	19.1
60°-70°	3065.8	23.9
70°-80°	2535.1	19.7
80°-90°	366.3	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°	12847.0	100.0
0°-180°	12847.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451637

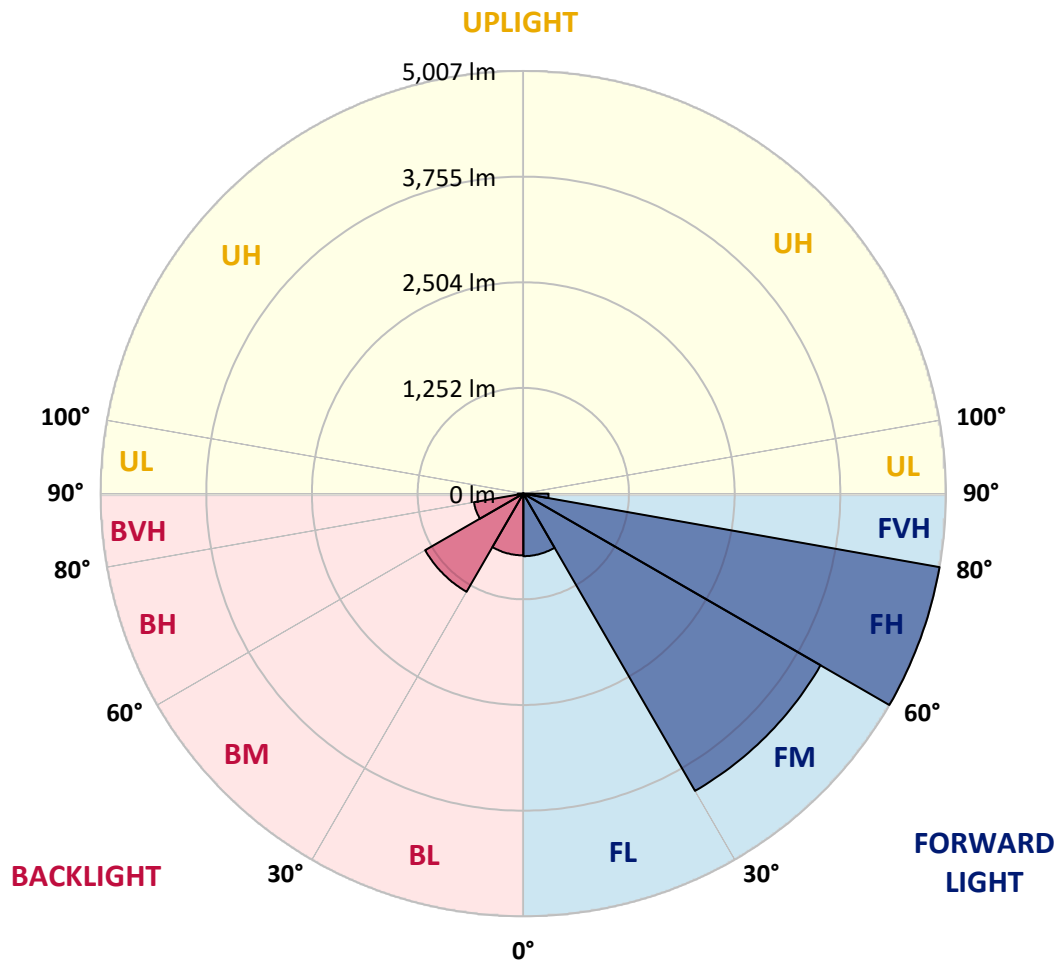
CATALOG NUMBER: GALN-SA2C-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	740.6	5.8			
FM	(30°-60°)	4065.3	31.6			
FH	(60°-80°)	5007.1	39.0			G3/7500
FVH	(80°-90°)	300.1	2.3			G3/500
BL	(0°-30°)	731.3	5.7	B2/1000		
BM	(30°-60°)	1342.6	10.5	B2/2500		
BH	(60°-80°)	593.8	4.6	B2/1000		G2/1000
BVH	(80°-90°)	66.2	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





REPORT NUMBER: P451637

CATALOG NUMBER: GALN-SA2C-730-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5
2.5°	1812.7	1822.0	1827.0	1844.8	1849.0	1854.7	1869.7	1889.6	1915.2	1938.0	1957.9
5°	1661.9	1676.1	1684.6	1700.3	1730.9	1733.7	1773.6	1819.1	1871.1	1919.5	1959.3
7.5°	1518.8	1534.5	1541.6	1570.0	1610.6	1617.0	1675.4	1747.3	1834.1	1907.4	1968.6
10°	1411.3	1419.2	1434.8	1456.2	1504.6	1508.8	1585.0	1681.1	1793.5	1901.7	1984.3
12.5°	1353.0	1357.2	1360.8	1383.6	1431.3	1437.7	1517.4	1626.3	1761.5	1906.0	2009.9
15°	1361.5	1362.9	1347.3	1351.5	1390.0	1399.2	1478.2	1590.0	1741.6	1916.6	2048.3
17.5°	1433.4	1428.4	1390.0	1370.0	1397.1	1401.4	1470.4	1575.7	1732.3	1936.6	2088.2
20°	1546.6	1539.4	1473.2	1429.1	1444.8	1448.3	1496.0	1586.4	1741.6	1969.3	2150.1
22.5°	1687.5	1684.6	1584.3	1530.9	1530.2	1530.2	1555.1	1624.8	1769.3	2014.1	2214.9
25°	1884.6	1869.7	1738.7	1669.7	1650.5	1649.0	1646.2	1688.2	1804.9	2061.8	2291.7
27.5°	2086.7	2061.1	1944.4	1838.4	1797.1	1792.1	1773.6	1777.9	1850.5	2115.9	2379.3
30°	2268.2	2251.9	2142.3	2024.8	1975.7	1964.3	1913.1	1889.6	1926.6	2213.4	2518.8
32.5°	2407.0	2397.1	2311.6	2204.9	2132.3	2130.2	2055.4	2036.2	2045.5	2331.6	2678.2
35°	2519.5	2523.0	2479.6	2387.1	2303.8	2291.7	2241.9	2217.7	2190.7	2502.4	2878.9
37.5°	2673.2	2681.0	2678.2	2598.5	2496.7	2499.5	2488.2	2448.3	2376.4	2693.1	3101.6
40°	2842.6	2848.3	2847.6	2817.0	2763.6	2766.4	2762.2	2716.6	2609.1	2935.8	3349.3
42.5°	3076.7	3049.7	2979.2	3009.8	3041.2	3054.7	3083.9	3040.4	2893.1	3194.9	3582.1
45°	3338.6	3287.4	3128.0	3142.2	3258.2	3283.8	3444.7	3384.9	3201.3	3492.4	3856.1
47.5°	3503.8	3453.2	3318.7	3315.9	3469.6	3494.5	3779.2	3757.1	3481.7	3813.4	4190.6
50°	3651.1	3644.0	3492.4	3528.7	3678.8	3715.9	4143.6	4123.0	3761.4	4192.0	4555.0
52.5°	3869.6	3811.9	3690.9	3765.7	3964.2	4012.6	4505.1	4444.7	4018.3	4526.5	4908.7
55°	3967.8	3954.3	3947.2	4011.9	4284.5	4319.4	4856.7	4717.9	4237.5	4809.8	5177.7
57.5°	4230.4	4205.5	4276.0	4320.1	4661.7	4715.1	5224.0	5003.3	4429.7	5034.7	5308.7
60°	4570.6	4557.1	4621.9	4701.6	5083.1	5164.2	5642.5	5246.8	4584.1	5147.8	5236.8
62.5°	5078.8	5077.4	5065.3	5236.1	5680.2	5754.9	6122.9	5483.8	4608.3	5063.1	4865.3
65°	5807.6	5782.0	5676.6	5863.1	6423.2	6510.8	6623.2	5616.1	4462.4	4628.3	4096.6
67.5°	6569.8	6568.4	6483.0	6725.0	7490.1	7580.5	7248.8	5587.0	4057.5	3749.3	2909.5
70°	7201.8	7171.2	7280.1	7924.9	8853.0	8957.6	7796.1	5243.2	3231.9	2476.1	1728.8
72.5°	7353.4	7354.8	7581.2	8850.2	10161.8	10178.2	7993.3	4249.6	2162.9	1365.8	864.7
74°	6886.5	6898.6	7249.5	8896.4	10406.0	10331.9	7489.4	3340.1	1462.6	891.8	623.5
75°	6285.9	6209.7	6717.2	8588.2	10152.6	10072.9	6899.4	2680.3	1116.0	712.4	545.9
77.5°	3360.7	3438.3	4221.2	6409.0	8248.0	8156.2	4678.1	1285.4	602.8	496.1	392.9
80°	1196.4	1319.5	1854.7	3353.6	5288.0	5316.5	2232.6	589.3	424.2	365.8	277.6
82.5°	488.2	501.8	796.4	1488.2	2685.3	2710.9	911.7	350.2	303.2	251.9	165.8
85°	190.7	196.4	352.3	669.0	1145.9	1220.6	315.3	185.0	186.5	144.5	84.7
87.5°	64.1	72.6	144.5	222.8	389.3	381.5	91.8	54.8	66.9	62.6	26.3
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: P451637
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5	1961.5
2.5°	1967.9	1981.4	1990.7	2000.6	2009.9	2012.7	2010.6	2017.0	2017.7	2018.4	2019.1
5°	1979.3	1997.8	2015.6	2025.5	2029.8	2026.2	2014.1	2007.7	2002.1	1997.8	1999.2
7.5°	1994.9	2021.3	2037.6	2041.9	2030.5	2014.1	1984.3	1960.8	1945.8	1935.9	1935.1
10°	2019.1	2044.8	2058.3	2046.2	2014.9	1975.0	1928.0	1883.9	1850.5	1840.5	1839.8
12.5°	2049.7	2078.9	2078.2	2042.6	1987.8	1916.6	1840.5	1789.2	1743.7	1720.9	1730.2
15°	2089.6	2111.7	2091.0	2027.0	1940.1	1842.6	1748.7	1678.9	1627.7	1603.5	1604.9
17.5°	2135.9	2155.1	2100.3	1999.2	1873.2	1748.0	1639.1	1572.9	1532.3	1514.5	1513.1
20°	2193.5	2199.2	2100.3	1950.8	1787.1	1637.7	1533.7	1487.5	1464.7	1455.5	1458.3
22.5°	2255.4	2244.0	2088.9	1882.5	1674.0	1522.4	1452.6	1432.0	1420.6	1419.2	1420.6
25°	2325.2	2293.1	2065.4	1790.0	1555.8	1422.7	1382.1	1385.7	1387.8	1387.8	1392.8
27.5°	2410.6	2346.5	2026.2	1673.2	1417.7	1330.2	1318.8	1343.7	1355.1	1357.2	1360.8
30°	2523.0	2404.9	1961.5	1527.3	1300.3	1246.9	1266.9	1300.3	1313.1	1320.9	1319.5
32.5°	2656.8	2468.9	1873.9	1381.4	1205.6	1188.6	1212.8	1246.9	1261.2	1265.4	1259.7
35°	2814.1	2541.5	1758.6	1244.8	1123.1	1133.0	1161.5	1172.2	1185.0	1185.0	1187.9
37.5°	2983.5	2599.9	1617.7	1119.5	1059.0	1095.3	1116.0	1106.0	1100.3	1093.2	1096.8
40°	3155.7	2643.3	1434.8	995.7	995.0	1056.2	1061.9	1033.4	1010.6	1003.5	1000.0
42.5°	3305.9	2670.3	1269.7	899.6	934.5	1017.8	1022.0	976.5	940.2	918.8	911.7
45°	3483.1	2701.7	1108.1	819.9	878.3	987.1	997.8	936.6	883.2	838.4	827.0
47.5°	3725.8	2772.8	980.7	758.0	837.7	967.9	982.9	903.9	833.4	775.1	765.8
50°	3999.8	2870.3	881.8	716.0	806.4	950.8	969.4	870.4	787.2	722.4	715.3
52.5°	4251.1	2923.0	796.4	678.3	775.8	919.5	951.6	846.2	741.6	669.7	663.3
55°	4388.4	2837.6	712.4	641.3	733.8	879.0	926.7	812.8	697.5	642.0	632.7
57.5°	4406.9	2661.1	636.3	601.4	689.7	829.1	880.4	772.2	669.0	622.7	614.9
60°	4263.9	2397.8	577.2	568.7	644.8	772.9	828.4	736.6	639.8	601.4	593.6
62.5°	3908.0	2111.7	535.9	538.8	599.3	713.8	790.0	702.5	612.1	577.9	570.8
65°	3295.9	1743.0	496.1	508.2	558.7	667.6	755.1	674.0	584.3	560.1	553.7
67.5°	2289.6	1258.3	463.3	476.1	520.3	620.6	714.6	643.4	553.0	540.2	530.2
70°	1267.6	774.3	424.9	439.8	480.4	567.9	669.0	597.1	507.5	501.8	487.5
72.5°	666.2	493.2	381.5	397.8	426.3	500.3	599.3	546.6	462.6	438.4	419.9
74°	520.3	404.3	352.3	369.4	388.6	460.5	558.0	510.3	430.6	402.1	387.9
75°	453.4	360.1	327.4	349.5	366.5	433.4	526.0	484.7	412.8	385.7	372.9
77.5°	320.3	269.7	267.6	293.9	303.2	380.1	474.0	441.3	368.0	339.5	327.4
80°	224.9	202.1	212.1	228.5	241.3	335.9	439.8	381.5	301.8	268.3	264.0
82.5°	146.6	132.4	151.6	166.5	170.8	247.7	355.1	289.7	219.9	178.6	165.8
85°	67.6	66.2	86.8	84.7	84.0	121.0	210.7	169.4	126.7	94.7	89.0
87.5°	17.1	16.4	21.4	17.8	21.4	18.5	19.2	5.0	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)