

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: P451869

Luminaire Tested: **GALN-SA2D-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451869
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-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 14137 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

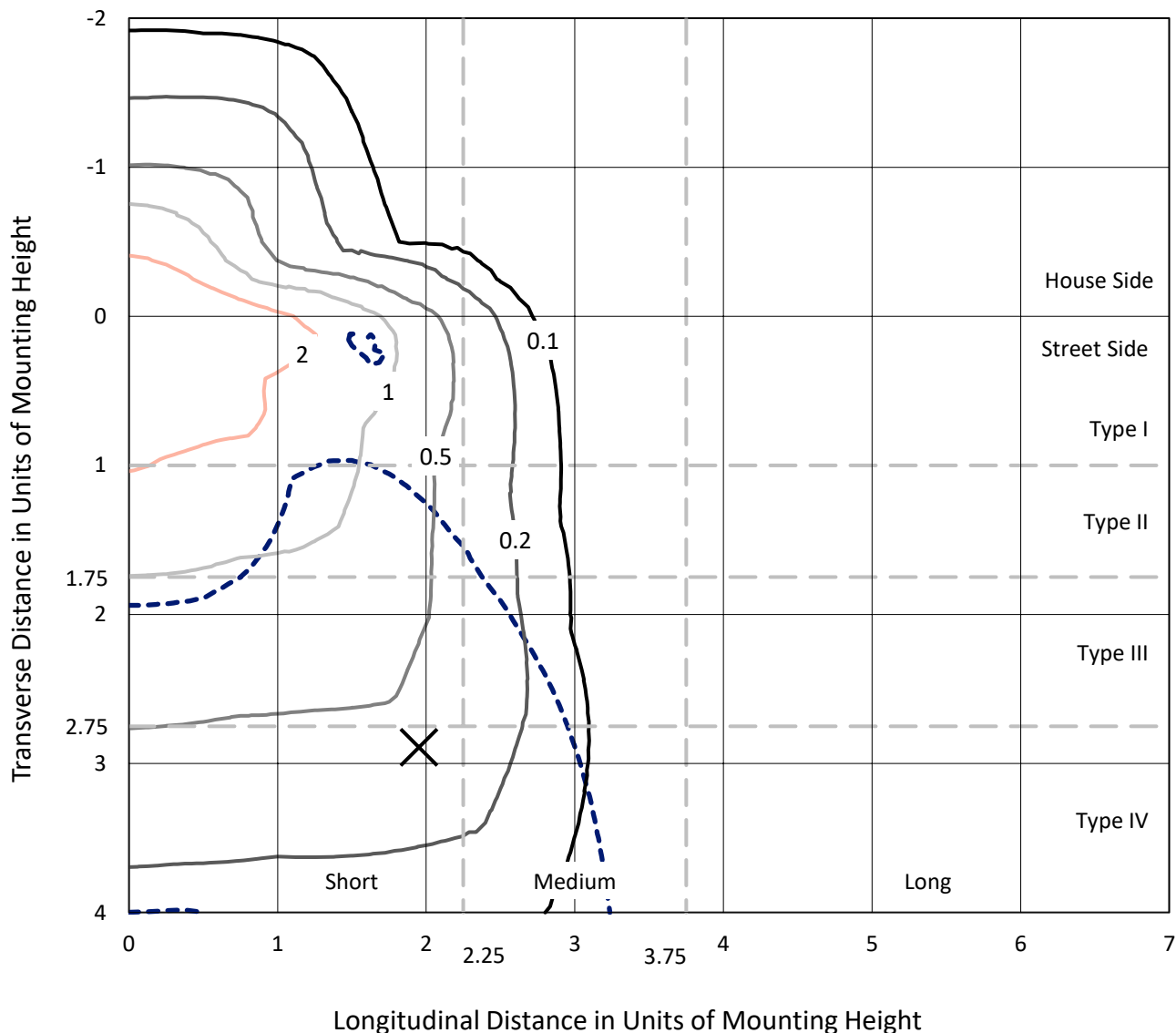
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451869
 CATALOG NUMBER: GALN-SA2D-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

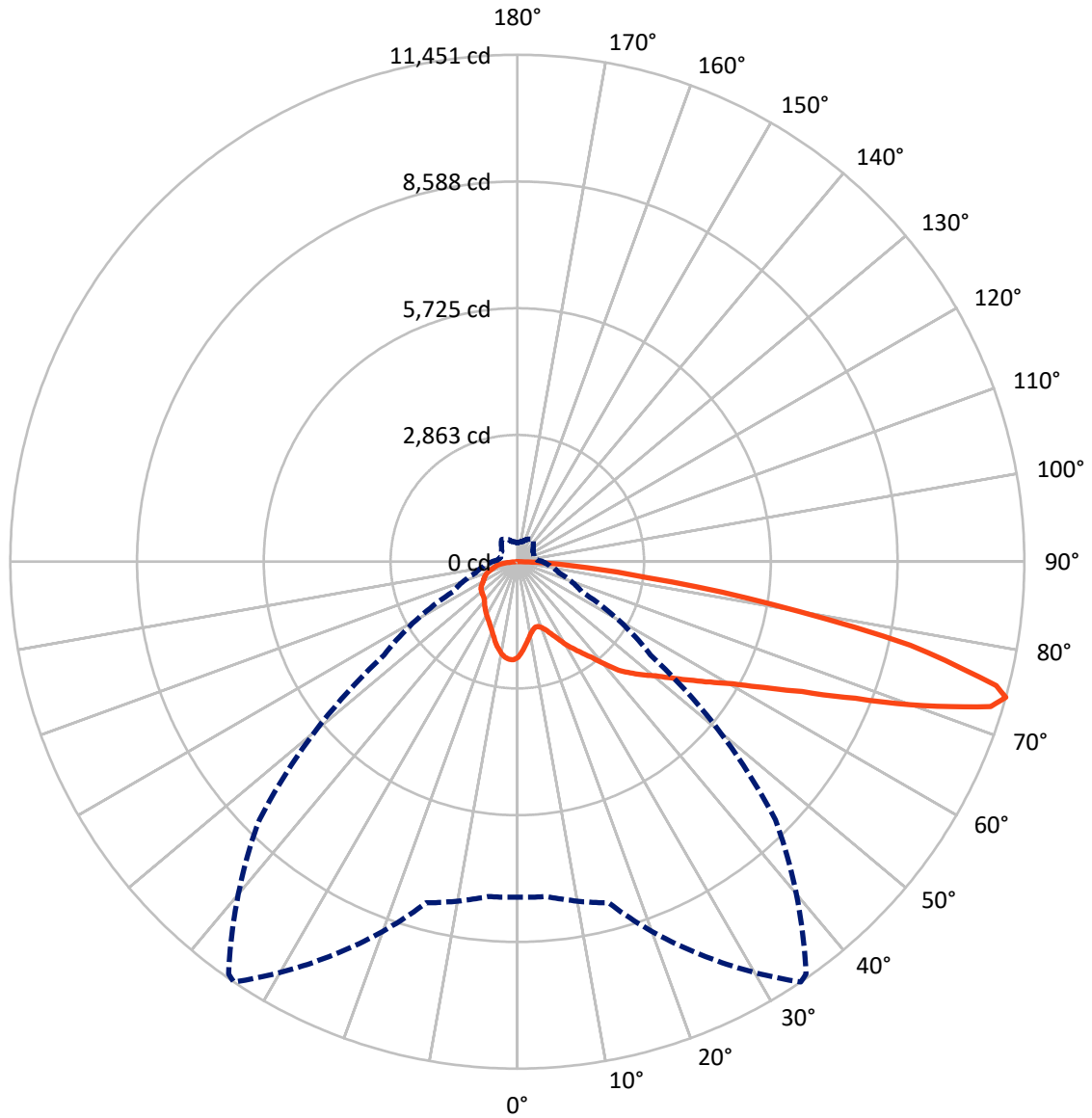
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P451869
CATALOG NUMBER: GALN-SA2D-730-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451869

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3008.5	0.0	3008.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	11128.5	0.0	11128.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	14137.0	0.0	14137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	1.4
10°-20°	537.4	3.8
20°-30°	886.0	6.3
30°-40°	1327.1	9.4
40°-50°	1929.2	13.6
50°-60°	2694.7	19.1
60°-70°	3373.6	23.9
70°-80°	2789.7	19.7
80°-90°	403.1	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°	14137.0	100.0
0°-180°	14137.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451869

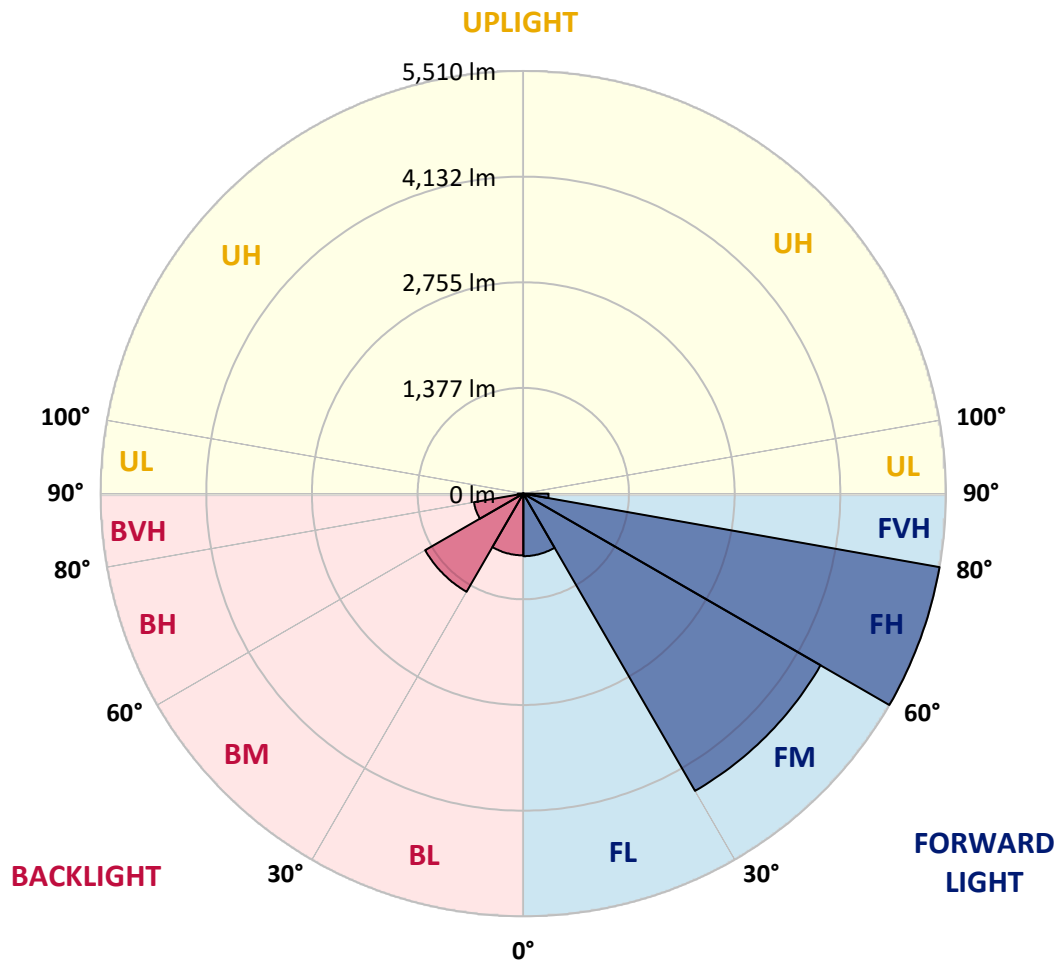
CATALOG NUMBER: GALN-SA2D-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.9	5.8			
FM (30°-60°)	4473.5	31.6			
FH (60°-80°)	5509.9	39.0			G3/7500
FVH (80°-90°)	330.2	2.3			G3/500
BL (0°-30°)	804.7	5.7	B2/1000		
BM (30°-60°)	1477.5	10.5	B2/2500		
BH (60°-80°)	653.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	72.9	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: P451869

CATALOG NUMBER: GALN-SA2D-730-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4
2.5°	1994.8	2004.9	2010.4	2030.0	2034.7	2041.0	2057.4	2079.3	2107.5	2132.6	2154.5
5°	1828.7	1844.4	1853.8	1871.0	1904.7	1907.8	1951.7	2001.8	2059.0	2112.2	2156.1
7.5°	1671.3	1688.5	1696.4	1727.7	1772.3	1779.4	1843.6	1922.7	2018.3	2098.9	2166.3
10°	1553.0	1561.7	1578.9	1602.4	1655.6	1660.3	1744.1	1849.9	1973.6	2092.7	2183.5
12.5°	1488.8	1493.5	1497.4	1522.5	1575.0	1582.0	1669.7	1789.6	1938.4	2097.4	2211.7
15°	1498.2	1499.8	1482.6	1487.3	1529.5	1539.7	1626.7	1749.6	1916.4	2109.1	2254.0
17.5°	1577.3	1571.8	1529.5	1507.6	1537.4	1542.1	1618.0	1734.0	1906.3	2131.0	2297.8
20°	1701.8	1694.0	1621.2	1572.6	1589.9	1593.8	1646.2	1745.7	1916.4	2167.1	2366.0
22.5°	1856.9	1853.8	1743.4	1684.6	1683.8	1683.8	1711.2	1788.0	1947.0	2216.4	2437.3
25°	2073.9	2057.4	1913.3	1837.3	1816.2	1814.6	1811.5	1857.7	1986.1	2268.9	2521.8
27.5°	2296.3	2268.1	2139.6	2023.0	1977.5	1972.0	1951.7	1956.4	2036.3	2328.4	2618.2
30°	2496.0	2478.0	2357.4	2228.1	2174.1	2161.6	2105.2	2079.3	2120.1	2435.7	2771.7
32.5°	2648.7	2637.7	2543.8	2426.3	2346.4	2344.1	2261.8	2240.7	2250.9	2565.7	2947.1
35°	2772.5	2776.4	2728.6	2626.8	2535.1	2521.8	2467.0	2440.4	2410.6	2753.7	3168.0
37.5°	2941.6	2950.2	2947.1	2859.4	2747.4	2750.5	2738.0	2694.1	2615.0	2963.5	3413.1
40°	3128.0	3134.3	3133.5	3099.8	3041.1	3044.2	3039.5	2989.4	2871.1	3230.6	3685.6
42.5°	3385.7	3355.9	3278.4	3312.1	3346.5	3361.4	3393.5	3345.7	3183.6	3515.7	3941.7
45°	3673.9	3617.5	3442.1	3457.7	3585.4	3613.6	3790.6	3724.8	3522.7	3843.1	4243.3
47.5°	3855.6	3800.0	3652.0	3648.8	3818.0	3845.4	4158.7	4134.4	3831.3	4196.3	4611.4
50°	4017.7	4009.9	3843.1	3883.0	4048.3	4089.0	4559.7	4537.0	4139.1	4612.9	5012.3
52.5°	4258.1	4194.7	4061.6	4143.8	4362.3	4415.6	4957.5	4891.0	4421.8	4981.0	5401.6
55°	4366.2	4351.3	4343.5	4414.8	4714.7	4753.1	5344.4	5191.7	4663.0	5292.7	5697.6
57.5°	4655.2	4627.8	4705.3	4753.9	5129.8	5188.6	5748.5	5505.7	4874.5	5540.2	5841.7
60°	5029.6	5014.7	5086.0	5173.7	5593.5	5682.7	6209.0	5773.6	5044.5	5664.7	5762.6
62.5°	5588.8	5587.2	5573.9	5761.8	6250.5	6332.8	6737.7	6034.4	5071.1	5571.5	5353.8
65°	6390.7	6362.5	6246.6	6451.8	7068.2	7164.5	7288.3	6180.1	4910.5	5093.0	4508.0
67.5°	7229.5	7228.0	7134.0	7400.3	8242.2	8341.6	7976.7	6148.0	4464.9	4125.8	3201.6
70°	7925.0	7891.3	8011.1	8720.7	9742.0	9857.1	8578.9	5769.7	3556.4	2724.7	1902.3
72.5°	8091.8	8093.4	8342.4	9738.8	11182.2	11200.2	8795.9	4676.4	2380.1	1502.9	951.6
74°	7578.0	7591.4	7977.5	9789.7	11450.9	11369.4	8241.4	3675.5	1609.4	981.3	686.1
75°	6917.0	6833.2	7391.6	9450.6	11172.0	11084.3	7592.1	2949.5	1228.0	784.0	600.7
77.5°	3698.2	3783.5	4645.0	7052.5	9076.3	8975.2	5147.8	1414.4	663.4	545.9	432.3
80°	1316.5	1452.0	2041.0	3690.3	5819.0	5850.3	2456.8	648.5	466.8	402.6	305.4
82.5°	537.3	552.1	876.4	1637.6	2954.9	2983.1	1003.3	385.3	333.6	277.2	182.5
85°	209.9	216.2	387.7	736.2	1260.9	1343.2	346.9	203.6	205.2	159.0	93.2
87.5°	70.5	79.9	159.0	245.1	428.4	419.8	101.0	60.3	73.6	68.9	29.0
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°	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4	2158.4
2.5°	2165.5	2180.4	2190.6	2201.5	2211.7	2214.8	2212.5	2219.5	2220.3	2221.1	2221.9
5°	2178.0	2198.4	2218.0	2228.9	2233.6	2229.7	2216.4	2209.3	2203.1	2198.4	2199.9
7.5°	2195.2	2224.2	2242.2	2246.9	2234.4	2216.4	2183.5	2157.7	2141.2	2130.2	2129.5
10°	2221.9	2250.1	2265.0	2251.6	2217.2	2173.3	2121.6	2073.1	2036.3	2025.3	2024.5
12.5°	2255.6	2287.7	2286.9	2247.7	2187.4	2109.1	2025.3	1968.9	1918.8	1893.7	1903.9
15°	2299.4	2323.7	2301.0	2230.5	2134.9	2027.6	1924.3	1847.5	1791.1	1764.5	1766.1
17.5°	2350.3	2371.5	2311.2	2199.9	2061.3	1923.5	1803.7	1730.8	1686.2	1666.6	1665.0
20°	2413.8	2420.0	2311.2	2146.7	1966.6	1802.1	1687.7	1636.8	1611.8	1601.6	1604.7
22.5°	2481.9	2469.4	2298.6	2071.5	1842.0	1675.2	1598.5	1575.8	1563.2	1561.7	1563.2
25°	2558.6	2523.4	2272.8	1969.7	1712.0	1565.6	1520.9	1524.8	1527.2	1527.2	1532.7
27.5°	2652.6	2582.1	2229.7	1841.3	1560.1	1463.8	1451.2	1478.6	1491.2	1493.5	1497.4
30°	2776.4	2646.4	2158.4	1680.7	1430.9	1372.1	1394.1	1430.9	1445.0	1453.6	1452.0
32.5°	2923.6	2716.8	2062.1	1520.1	1326.7	1307.9	1334.5	1372.1	1387.8	1392.5	1386.2
35°	3096.7	2796.7	1935.2	1369.8	1235.9	1246.8	1278.1	1289.9	1304.0	1304.0	1307.1
37.5°	3283.1	2861.0	1780.2	1231.9	1165.4	1205.3	1228.0	1217.1	1210.8	1203.0	1206.9
40°	3472.6	2908.7	1578.9	1095.7	1094.9	1162.2	1168.5	1137.2	1112.1	1104.3	1100.4
42.5°	3637.9	2938.5	1397.2	989.9	1028.3	1119.9	1124.6	1074.5	1034.6	1011.1	1003.3
45°	3832.9	2972.9	1219.4	902.2	966.4	1086.3	1098.0	1030.7	971.9	922.6	910.1
47.5°	4099.9	3051.3	1079.2	834.1	921.8	1065.1	1081.6	994.6	917.1	852.9	842.7
50°	4401.5	3158.6	970.4	787.9	887.3	1046.3	1066.7	957.8	866.2	794.9	787.1
52.5°	4677.9	3216.5	876.4	746.4	853.7	1011.9	1047.1	931.2	816.1	737.0	729.9
55°	4829.1	3122.5	784.0	705.6	807.5	967.2	1019.7	894.4	767.5	706.4	696.2
57.5°	4849.4	2928.3	700.2	661.8	758.9	912.4	968.8	849.7	736.2	685.3	676.7
60°	4692.0	2638.5	635.2	625.8	709.6	850.5	911.6	810.6	704.1	661.8	653.2
62.5°	4300.4	2323.7	589.7	592.9	659.4	785.5	869.3	773.0	673.5	635.9	628.1
65°	3626.9	1918.0	545.9	559.2	614.8	734.6	831.0	741.7	643.0	616.4	609.3
67.5°	2519.5	1384.7	509.8	523.9	572.5	682.9	786.3	708.0	608.5	594.4	583.5
70°	1394.8	852.1	467.6	484.0	528.6	625.0	736.2	657.1	558.4	552.1	536.5
72.5°	733.1	542.7	419.8	437.8	469.1	550.6	659.4	601.5	509.1	482.4	462.1
74°	572.5	444.8	387.7	406.5	427.6	506.7	614.0	561.5	473.8	442.5	426.8
75°	498.9	396.3	360.3	384.5	403.3	477.0	578.8	533.3	454.2	424.5	410.4
77.5°	352.4	296.8	294.5	323.5	333.6	418.2	521.6	485.6	404.9	373.6	360.3
80°	247.5	222.4	233.4	251.4	265.5	369.7	484.0	419.8	332.1	295.3	290.6
82.5°	161.3	145.7	166.8	183.3	188.0	272.5	390.8	318.8	242.0	196.6	182.5
85°	74.4	72.8	95.5	93.2	92.4	133.1	231.8	186.4	139.4	104.2	97.9
87.5°	18.8	18.0	23.5	19.6	23.5	20.4	21.1	5.5	0.8	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)