

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: P522764

Luminaire Tested: **GALN-SA5A-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16848 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

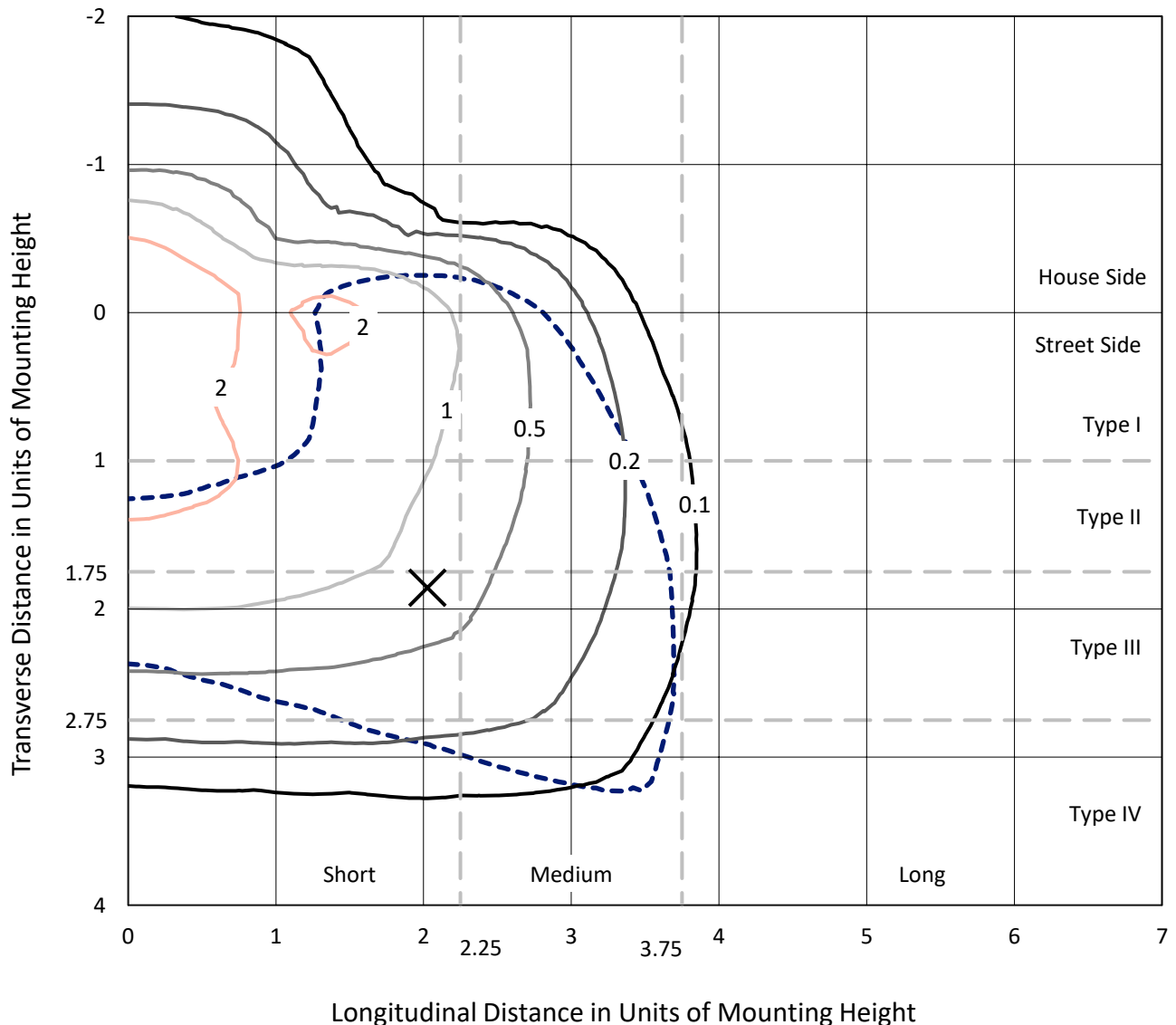
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522764
 CATALOG NUMBER: GALN-SA5A-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

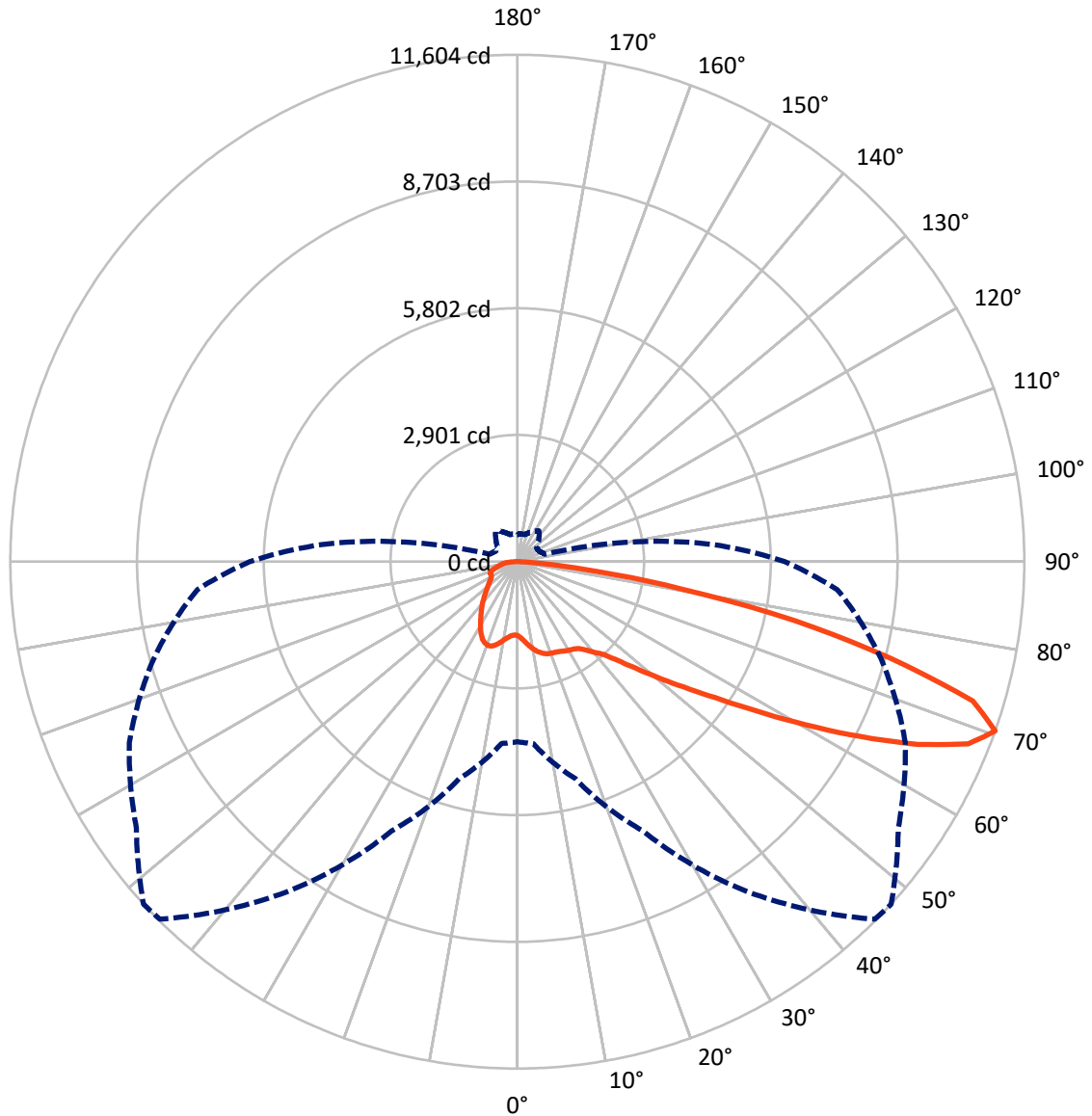
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P522764
CATALOG NUMBER: GALN-SA5A-827-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522764

CATALOG NUMBER: GALN-SA5A-827-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3814.7	0.0	3814.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13033.3	0.0	13033.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	16848.0	0.0	16848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.3	1.0
10°-20°	582.8	3.5
20°-30°	969.3	5.8
30°-40°	1373.8	8.2
40°-50°	2028.0	12.0
50°-60°	3512.5	20.8
60°-70°	4961.6	29.4
70°-80°	2852.2	16.9
80°-90°	393.5	2.3
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°	16848.0	100.0
0°-180°	16848.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522764

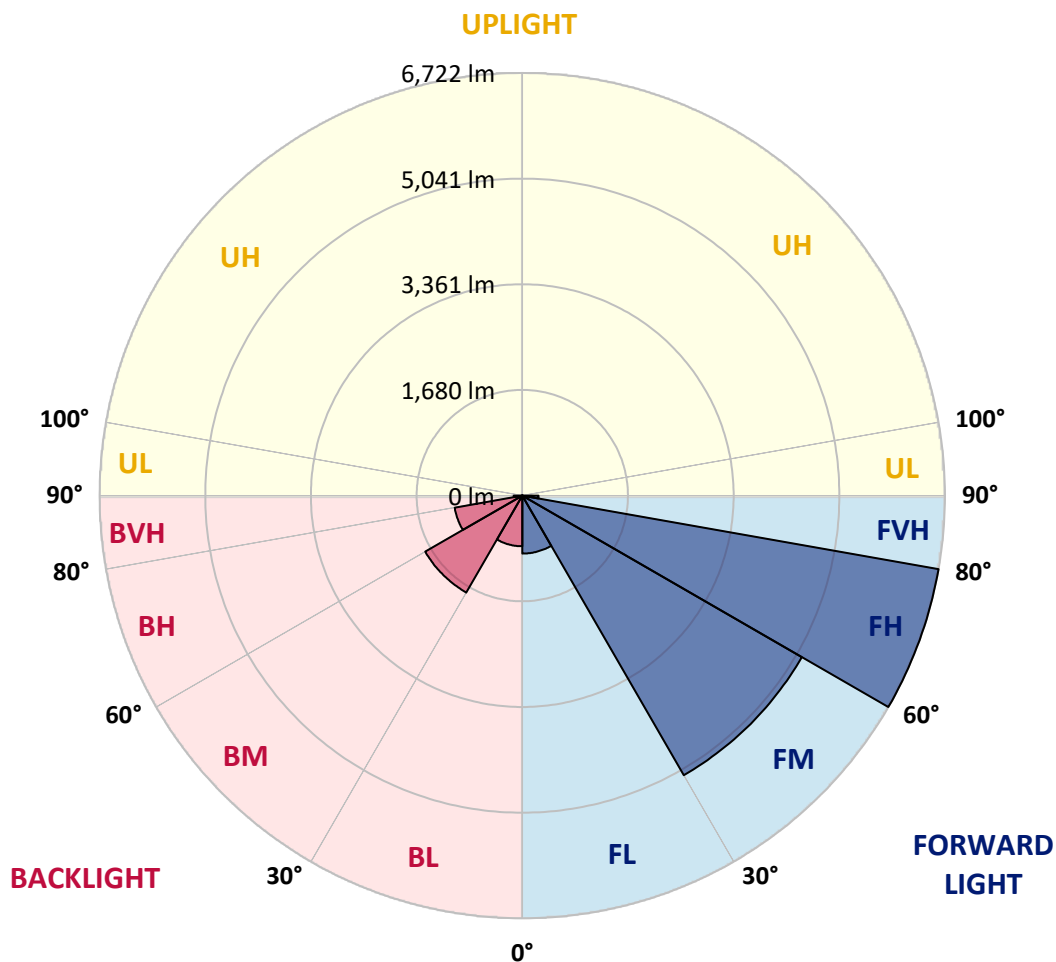
CATALOG NUMBER: GALN-SA5A-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	921.3	5.5			
FM	(30°-60°)	5133.3	30.5			
FH	(60°-80°)	6721.7	39.9			G3/7500
FVH	(80°-90°)	257.1	1.5			G3/500
BL	(0°-30°)	805.1	4.8	B2/1000		
BM	(30°-60°)	1781.0	10.6	B2/2500		
BH	(60°-80°)	1092.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	136.5	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P522764

CATALOG NUMBER: GALN-SA5A-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3
2.5°	1800.4	1794.1	1793.2	1779.7	1772.5	1759.0	1753.5	1740.9	1725.6	1710.3	1695.8
5°	1942.0	1942.0	1935.7	1916.7	1887.0	1856.3	1842.8	1818.5	1775.2	1740.0	1710.3
7.5°	2087.1	2088.9	2076.3	2048.4	2006.0	1956.4	1943.8	1907.7	1846.4	1795.0	1750.8
10°	2212.4	2212.4	2195.3	2157.4	2104.3	2050.2	2037.5	1997.0	1928.4	1864.4	1806.7
12.5°	2308.0	2308.0	2285.5	2235.9	2178.2	2129.5	2115.1	2076.3	2012.3	1941.1	1868.0
15°	2370.2	2365.7	2340.5	2284.6	2228.7	2186.3	2176.4	2143.9	2085.3	2013.2	1931.2
17.5°	2372.9	2371.1	2346.8	2299.9	2251.2	2222.4	2216.0	2194.4	2148.4	2079.9	1993.4
20°	2320.6	2324.2	2308.0	2274.6	2251.2	2238.6	2235.9	2228.7	2196.2	2132.2	2045.7
22.5°	2264.7	2271.0	2255.7	2237.7	2235.9	2248.5	2250.3	2252.1	2231.4	2169.2	2089.8
25°	2251.2	2255.7	2240.4	2224.2	2234.1	2267.4	2274.6	2281.9	2265.6	2213.3	2142.1
27.5°	2319.7	2316.1	2286.4	2251.2	2257.5	2302.6	2312.5	2320.6	2312.5	2267.4	2207.0
30°	2513.6	2501.8	2442.3	2339.6	2307.1	2338.7	2348.6	2371.1	2371.1	2337.8	2277.4
32.5°	2838.1	2815.6	2706.5	2504.5	2391.9	2372.9	2382.8	2419.8	2438.7	2412.6	2346.8
35°	3232.1	3208.7	3052.7	2781.3	2546.9	2441.4	2438.7	2480.2	2530.7	2472.1	2386.4
37.5°	3627.9	3603.6	3416.0	3111.3	2773.2	2585.7	2569.5	2583.9	2605.5	2498.2	2441.4
40°	4023.7	3994.8	3830.8	3480.0	3050.0	2776.8	2734.4	2669.5	2660.5	2583.9	2547.8
42.5°	4415.9	4389.7	4306.8	3893.9	3381.8	2963.4	2898.5	2786.7	2821.0	2775.0	2743.5
45°	4811.7	4813.5	4725.1	4358.2	3782.1	3307.8	3220.4	3045.5	3126.6	3109.5	3127.5
47.5°	5162.4	5157.9	5126.3	4808.9	4278.8	3751.4	3638.7	3435.9	3574.7	3637.8	3775.8
50°	5502.3	5499.5	5501.4	5320.1	4855.8	4278.8	4154.4	3941.6	4254.5	4473.6	4720.6
52.5°	5989.1	6004.4	5895.3	5847.6	5557.2	4901.8	4764.8	4544.8	5057.8	5403.1	5885.4
55°	6477.7	6465.1	6379.5	6429.1	6291.1	5639.3	5495.9	5321.0	5952.1	6329.9	7054.7
57.5°	6765.3	6769.9	6857.3	7099.8	7197.2	6558.9	6429.1	6293.8	6957.4	7225.1	8095.2
60°	7024.1	7044.8	7296.4	7754.4	8018.5	7688.5	7573.1	7441.5	7879.7	7986.1	8998.5
62.5°	7105.2	7169.2	7608.3	8293.5	8819.1	8963.4	8820.0	8529.7	8757.8	8716.3	9610.7
65°	6700.4	6787.9	7575.0	8495.4	9534.1	10173.3	10082.2	9543.1	9506.1	9256.4	9710.8
67.5°	5634.8	5722.2	6732.9	8071.7	9829.8	11220.9	11129.8	10282.4	9960.5	9306.9	8953.4
70°	4122.9	4177.9	5144.3	6796.0	9235.6	11572.5	11604.0	10643.0	9798.2	8620.8	7351.4
72.5°	2375.6	2497.3	3174.4	4781.0	7545.2	10683.5	10902.6	9892.9	8772.2	7191.8	5139.8
75°	1021.5	1024.2	1467.7	2637.1	5110.1	8587.4	8799.3	8200.6	6888.9	4973.0	2744.4
77.5°	485.9	495.0	645.5	1177.4	2812.9	5933.2	6504.8	5793.5	4405.9	2389.1	1036.8
80°	315.5	321.9	394.9	584.2	1379.4	3440.4	3838.9	3342.1	1943.8	853.8	447.2
82.5°	191.1	192.9	264.2	357.0	759.1	1557.9	1836.5	1450.6	829.4	511.2	263.3
85°	116.3	117.2	160.5	220.9	460.7	538.2	552.7	548.2	486.8	334.5	140.6
87.5°	55.9	57.7	82.9	104.6	181.2	166.8	157.8	183.0	229.9	180.3	60.4
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: P522764
 CATALOG NUMBER: GALN-SA5A-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3	1691.3
2.5°	1689.5	1686.8	1680.5	1677.8	1676.0	1676.9	1676.0	1676.0	1676.9	1676.9	1676.9
5°	1697.6	1693.1	1683.2	1683.2	1688.6	1701.3	1713.0	1722.0	1731.9	1731.0	1731.0
7.5°	1732.8	1724.7	1713.0	1716.6	1730.1	1749.9	1770.7	1790.5	1810.3	1812.1	1811.2
10°	1784.2	1776.1	1763.5	1768.0	1789.6	1819.4	1845.5	1874.4	1896.0	1902.3	1900.5
12.5°	1842.8	1826.6	1815.8	1828.4	1862.6	1902.3	1927.5	1949.2	1964.5	1973.5	1969.9
15°	1902.3	1887.0	1874.4	1900.5	1942.0	1978.9	1991.6	1995.2	1997.9	2006.9	2005.1
17.5°	1960.0	1939.3	1934.8	1969.0	2008.7	2024.9	2017.7	2002.4	1990.7	1997.9	1997.0
20°	2011.4	1995.2	1993.4	2027.6	2042.9	2027.6	1997.0	1969.9	1949.2	1951.0	1950.1
22.5°	2060.1	2047.5	2049.3	2063.7	2039.3	1987.0	1936.6	1899.6	1877.1	1881.6	1884.3
25°	2114.2	2101.5	2106.1	2082.6	2002.4	1911.3	1838.3	1806.7	1797.7	1806.7	1813.0
27.5°	2184.5	2176.4	2173.7	2083.5	1936.6	1799.5	1716.6	1704.9	1713.0	1732.8	1742.7
30°	2260.2	2260.2	2245.8	2068.2	1846.4	1665.2	1593.1	1594.9	1622.8	1650.8	1660.7
32.5°	2333.3	2348.6	2303.5	2026.7	1730.1	1534.5	1479.5	1481.3	1505.6	1539.9	1548.9
35°	2393.7	2437.8	2353.1	1951.0	1593.1	1424.5	1383.0	1358.7	1359.6	1385.7	1392.9
37.5°	2476.6	2558.6	2381.9	1838.3	1447.0	1330.7	1283.8	1241.5	1213.5	1202.7	1202.7
40°	2620.9	2741.7	2389.1	1671.5	1309.1	1241.5	1174.7	1124.3	1070.2	1021.5	1012.5
42.5°	2865.2	3017.5	2374.7	1479.5	1184.7	1143.2	1078.3	1016.1	941.2	872.7	867.3
45°	3297.9	3376.4	2336.0	1280.2	1073.8	1048.5	985.4	917.8	838.5	777.1	772.6
47.5°	3991.2	3880.3	2284.6	1103.5	972.8	965.6	916.9	838.5	759.1	716.7	712.2
50°	5003.7	4673.7	2277.4	975.5	891.6	895.3	855.6	783.5	714.0	678.9	673.5
52.5°	6222.6	5632.1	2325.1	885.3	820.4	833.9	814.1	747.4	686.1	656.3	650.9
55°	7405.5	6494.0	2354.0	815.0	753.7	779.0	781.7	725.8	669.9	640.1	636.5
57.5°	8365.6	7143.1	2226.0	751.0	696.0	734.8	754.6	713.1	661.7	639.2	635.6
60°	9033.7	7449.6	1861.7	694.2	653.6	699.6	744.7	714.0	681.6	684.3	686.1
62.5°	9246.5	7313.5	1396.5	651.8	624.8	687.9	760.9	751.0	717.6	738.4	742.0
65°	8893.9	6750.9	1012.5	618.5	599.5	696.0	809.6	778.1	705.0	720.4	720.4
67.5°	7713.8	5816.0	788.0	587.8	570.7	711.3	858.3	775.3	675.3	693.3	677.1
70°	6118.9	4498.8	656.3	553.6	540.0	688.8	862.8	747.4	640.1	643.7	613.1
72.5°	4060.7	2958.0	564.4	521.1	493.2	619.4	825.8	711.3	605.9	585.1	554.5
75°	1989.8	1475.0	492.3	480.5	431.8	539.1	775.3	677.1	568.9	536.4	519.3
77.5°	770.8	627.5	420.1	429.1	376.0	475.1	708.6	628.4	520.2	476.0	462.5
80°	374.1	356.1	344.4	357.9	309.2	404.8	647.3	586.0	475.1	426.4	406.6
82.5°	232.6	220.0	264.2	278.6	238.0	369.6	614.0	550.0	418.3	353.4	337.2
85°	118.1	126.2	176.7	190.2	170.4	293.9	505.8	412.9	302.0	250.6	252.4
87.5°	45.1	60.4	92.9	100.1	91.1	155.1	278.6	240.7	193.8	131.6	121.7
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)