

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: P522680

Luminaire Tested: **GALN-SA2D-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522680
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-SA2D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15568 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

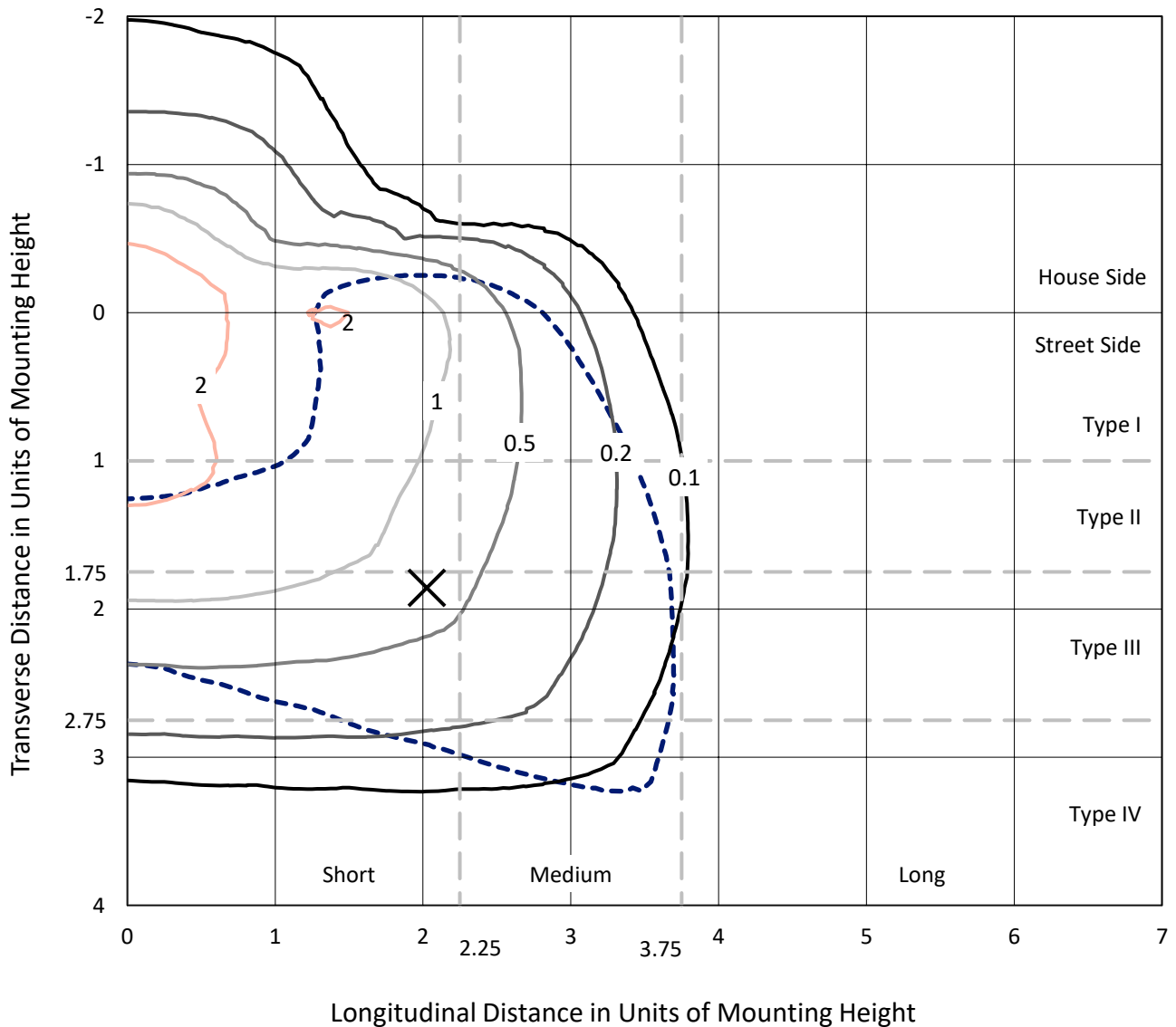
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522680
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Iso-Footcandle Lines of Horizontal Illumination

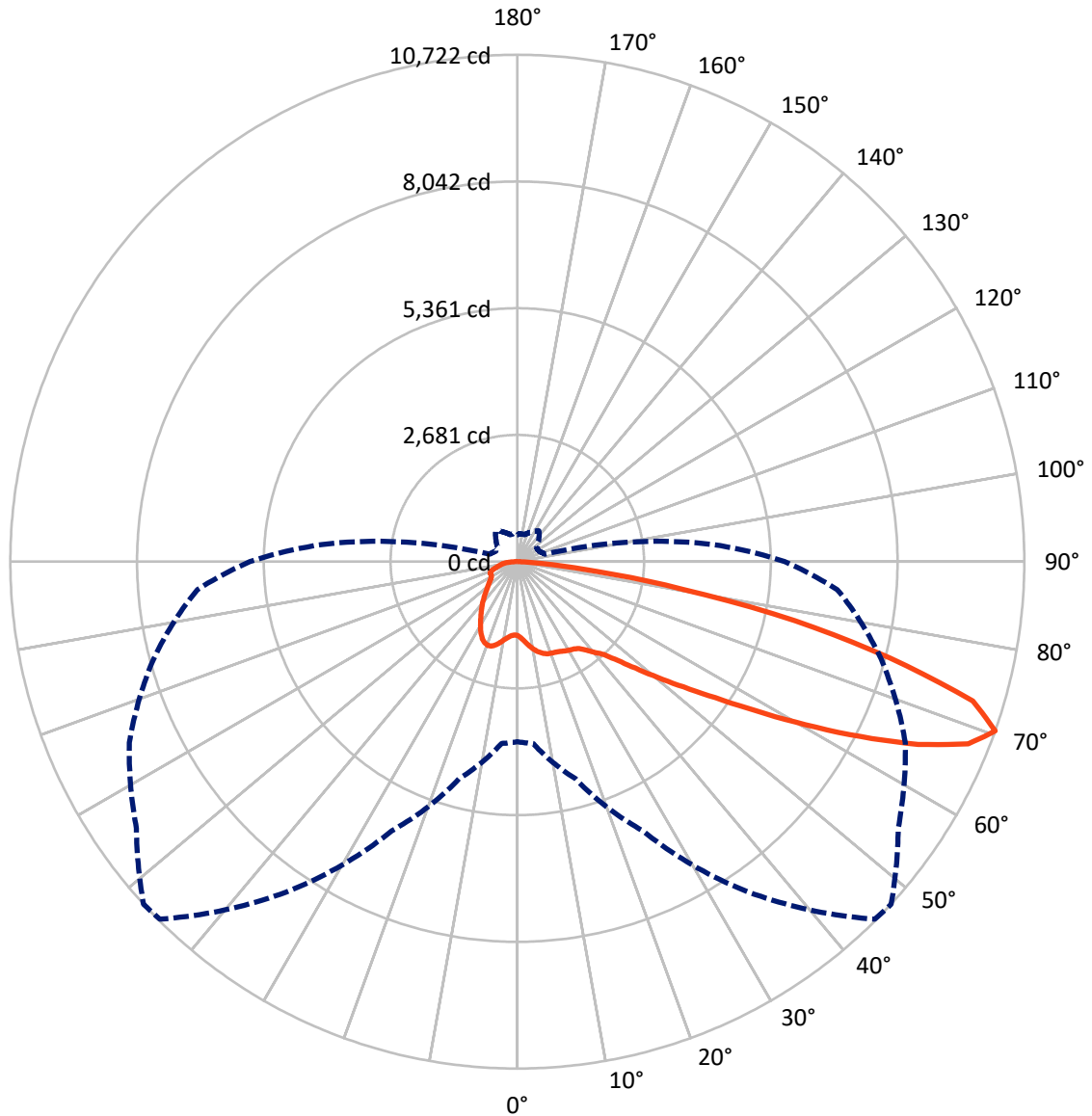
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P522680
CATALOG NUMBER: GALN-SA2D-740-U-T4W

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3524.9	0.0	3524.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12043.1	0.0	12043.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	15568.0	0.0	15568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	1.0
10°-20°	538.6	3.5
20°-30°	895.6	5.8
30°-40°	1269.4	8.2
40°-50°	1873.9	12.0
50°-60°	3245.7	20.8
60°-70°	4584.6	29.4
70°-80°	2635.5	16.9
80°-90°	363.6	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°	15568.0	100.0
0°-180°	15568.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522680

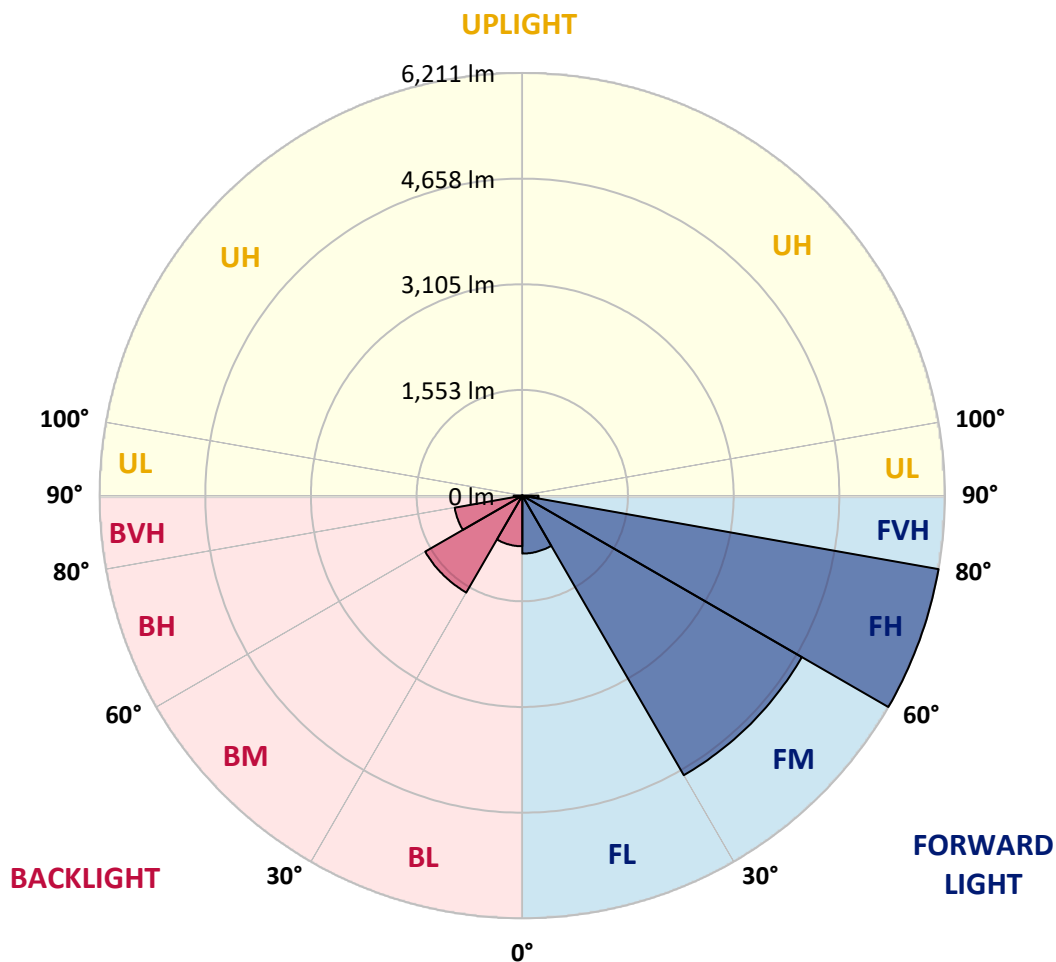
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.3	5.5			
FM	(30°-60°)	4743.3	30.5			
FH	(60°-80°)	6211.0	39.9			G3/7500
FVH	(80°-90°)	237.5	1.5			G3/500
BL	(0°-30°)	744.0	4.8	B2/1000		
BM	(30°-60°)	1645.7	10.6	B2/2500		
BH	(60°-80°)	1009.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	126.1	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: P522680

CATALOG NUMBER: GALN-SA2D-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8
2.5°	1663.6	1657.8	1657.0	1644.5	1637.8	1625.3	1620.3	1608.7	1594.5	1580.3	1567.0
5°	1794.4	1794.4	1788.6	1771.1	1743.6	1715.3	1702.8	1680.3	1640.3	1607.8	1580.3
7.5°	1928.6	1930.2	1918.6	1892.7	1853.6	1807.8	1796.1	1762.8	1706.1	1658.6	1617.8
10°	2044.4	2044.4	2028.5	1993.5	1944.4	1894.4	1882.7	1845.3	1781.9	1722.8	1669.5
12.5°	2132.7	2132.7	2111.8	2066.0	2012.7	1967.7	1954.4	1918.6	1859.4	1793.6	1726.1
15°	2190.1	2186.0	2162.7	2111.0	2059.3	2020.2	2011.0	1981.0	1926.9	1860.2	1784.4
17.5°	2192.6	2191.0	2168.5	2125.2	2080.2	2053.5	2047.7	2027.7	1985.2	1921.9	1841.9
20°	2144.3	2147.7	2132.7	2101.8	2080.2	2068.5	2066.0	2059.3	2029.4	1970.2	1890.2
22.5°	2092.7	2098.5	2084.3	2067.7	2066.0	2077.7	2079.3	2081.0	2061.8	2004.4	1931.1
25°	2080.2	2084.3	2070.2	2055.2	2064.3	2095.2	2101.8	2108.5	2093.5	2045.2	1979.4
27.5°	2143.5	2140.2	2112.7	2080.2	2086.0	2127.7	2136.8	2144.3	2136.8	2095.2	2039.4
30°	2322.6	2311.8	2256.8	2161.8	2131.8	2161.0	2170.1	2191.0	2191.0	2160.2	2104.3
32.5°	2622.5	2601.7	2500.9	2314.3	2210.1	2192.6	2201.8	2236.0	2253.5	2229.3	2168.5
35°	2986.6	2964.9	2820.8	2570.0	2353.4	2256.0	2253.5	2291.8	2338.4	2284.3	2205.1
37.5°	3352.3	3329.8	3156.5	2874.9	2562.5	2389.2	2374.3	2387.6	2407.6	2308.4	2256.0
40°	3718.0	3691.3	3539.7	3215.7	2818.3	2565.9	2526.7	2466.7	2458.4	2387.6	2354.3
42.5°	4080.4	4056.2	3979.6	3598.0	3124.8	2738.3	2678.3	2575.0	2606.7	2564.2	2535.0
45°	4446.1	4447.8	4366.1	4027.1	3494.7	3056.5	2975.7	2814.1	2889.1	2873.3	2889.9
47.5°	4770.2	4766.0	4736.8	4443.6	3953.8	3466.4	3362.3	3174.8	3303.1	3361.4	3488.9
50°	5084.2	5081.7	5083.4	4915.9	4486.9	3953.8	3838.8	3642.2	3931.3	4133.7	4362.0
52.5°	5534.1	5548.2	5447.4	5403.3	5135.0	4529.4	4402.8	4199.5	4673.5	4992.6	5438.3
55°	5985.6	5973.9	5894.8	5940.6	5813.2	5210.9	5078.4	4916.8	5499.9	5849.0	6518.8
57.5°	6251.4	6255.5	6336.3	6560.4	6650.4	6060.6	5940.6	5815.7	6428.8	6676.2	7480.1
60°	6490.5	6509.6	6742.0	7165.2	7409.3	7104.4	6997.8	6876.2	7281.0	7379.3	8314.9
62.5°	6565.4	6624.6	7030.3	7663.4	8149.1	8282.4	8149.9	7881.7	8092.4	8054.1	8880.5
65°	6191.4	6272.2	6999.5	7850.0	8809.7	9400.4	9316.2	8818.0	8783.9	8553.1	8973.0
67.5°	5206.7	5287.5	6221.4	7458.5	9083.0	10368.4	10284.3	9501.2	9203.8	8599.8	8273.2
70°	3809.6	3860.4	4753.5	6279.7	8534.0	10693.3	10722.4	9834.4	9053.8	7965.8	6792.9
72.5°	2195.1	2307.6	2933.2	4417.8	6972.0	9871.9	10074.3	9141.3	8105.8	6645.4	4749.3
75°	943.9	946.4	1356.2	2436.7	4721.8	7935.0	8130.8	7577.6	6365.5	4595.2	2535.9
77.5°	449.0	457.4	596.5	1088.0	2599.2	5482.4	6010.6	5353.3	4071.2	2207.6	958.0
80°	291.6	297.4	364.9	539.8	1274.6	3179.0	3547.2	3088.2	1796.1	788.9	413.2
82.5°	176.6	178.3	244.1	329.9	701.4	1439.5	1697.0	1340.4	766.4	472.4	243.3
85°	107.5	108.3	148.3	204.1	425.7	497.3	510.7	506.5	449.9	309.1	130.0
87.5°	51.7	53.3	76.6	96.6	167.4	154.1	145.8	169.1	212.4	166.6	55.8
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: P522680
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8	1562.8
2.5°	1561.2	1558.7	1552.8	1550.3	1548.7	1549.5	1548.7	1548.7	1549.5	1549.5	1549.5
5°	1568.7	1564.5	1555.3	1555.3	1560.3	1572.0	1582.8	1591.2	1600.3	1599.5	1599.5
7.5°	1601.2	1593.7	1582.8	1586.2	1598.7	1617.0	1636.2	1654.5	1672.8	1674.5	1673.6
10°	1648.6	1641.1	1629.5	1633.7	1653.6	1681.1	1705.3	1732.0	1751.9	1757.8	1756.1
12.5°	1702.8	1687.8	1677.8	1689.5	1721.1	1757.8	1781.1	1801.1	1815.3	1823.6	1820.3
15°	1757.8	1743.6	1732.0	1756.1	1794.4	1828.6	1840.3	1843.6	1846.1	1854.4	1852.7
17.5°	1811.1	1791.9	1787.8	1819.4	1856.1	1871.1	1864.4	1850.2	1839.4	1846.1	1845.3
20°	1858.6	1843.6	1841.9	1873.6	1887.7	1873.6	1845.3	1820.3	1801.1	1802.8	1801.9
22.5°	1903.6	1891.9	1893.6	1906.9	1884.4	1836.1	1789.4	1755.3	1734.5	1738.6	1741.1
25°	1953.5	1941.9	1946.1	1924.4	1850.2	1766.1	1698.6	1669.5	1661.1	1669.5	1675.3
27.5°	2018.5	2011.0	2008.5	1925.2	1789.4	1662.8	1586.2	1575.3	1582.8	1601.2	1610.3
30°	2088.5	2088.5	2075.2	1911.1	1706.1	1538.7	1472.0	1473.7	1499.5	1525.4	1534.5
32.5°	2156.0	2170.1	2128.5	1872.7	1598.7	1417.9	1367.1	1368.7	1391.2	1422.9	1431.2
35°	2211.8	2252.6	2174.3	1802.8	1472.0	1316.3	1277.9	1255.4	1256.3	1280.4	1287.1
37.5°	2288.4	2364.3	2201.0	1698.6	1337.1	1229.6	1186.3	1147.1	1121.3	1111.3	1111.3
40°	2421.7	2533.4	2207.6	1544.5	1209.6	1147.1	1085.5	1038.8	988.9	943.9	935.5
42.5°	2647.5	2788.3	2194.3	1367.1	1094.7	1056.3	996.4	938.9	869.7	806.4	801.4
45°	3047.4	3119.8	2158.5	1183.0	992.2	968.9	910.5	848.1	774.8	718.1	713.9
47.5°	3688.0	3585.5	2111.0	1019.7	898.9	892.2	847.2	774.8	701.4	662.3	658.1
50°	4623.5	4318.6	2104.3	901.4	823.9	827.2	790.6	723.9	659.8	627.3	622.3
52.5°	5749.9	5204.2	2148.5	818.1	758.1	770.6	752.3	690.6	634.0	606.5	601.5
55°	6842.8	6000.6	2175.1	753.1	696.4	719.8	722.3	670.6	619.0	591.5	588.1
57.5°	7730.1	6600.4	2056.9	693.9	643.1	679.0	697.3	659.0	611.5	590.6	587.3
60°	8347.4	6883.7	1720.3	641.5	604.0	646.5	688.1	659.8	629.8	632.3	634.0
62.5°	8544.0	6757.9	1290.4	602.3	577.3	635.6	703.1	693.9	663.1	682.3	685.6
65°	8218.2	6238.0	935.5	571.5	554.0	643.1	748.1	718.9	651.5	665.6	665.6
67.5°	7127.7	5374.1	728.1	543.2	527.3	657.3	793.1	716.4	624.0	640.6	625.6
70°	5654.0	4157.0	606.5	511.5	499.0	636.5	797.2	690.6	591.5	594.8	566.5
72.5°	3752.1	2733.3	521.5	481.5	455.7	572.3	763.1	657.3	559.8	540.7	512.3
75°	1838.6	1362.9	454.9	444.0	399.0	498.2	716.4	625.6	525.7	495.7	479.8
77.5°	712.3	579.8	388.2	396.5	347.4	439.0	654.8	580.6	480.7	439.9	427.4
80°	345.7	329.1	318.2	330.7	285.7	374.0	598.1	541.5	439.0	394.0	375.7
82.5°	214.9	203.3	244.1	257.4	219.9	341.6	567.3	508.2	386.5	326.6	311.6
85°	109.1	116.6	163.3	175.8	157.5	271.6	467.4	381.5	279.1	231.6	233.3
87.5°	41.7	55.8	85.8	92.5	84.1	143.3	257.4	222.4	179.1	121.6	112.5
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)