

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: P451183

Luminaire Tested: **GALN-SA2A-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9180 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

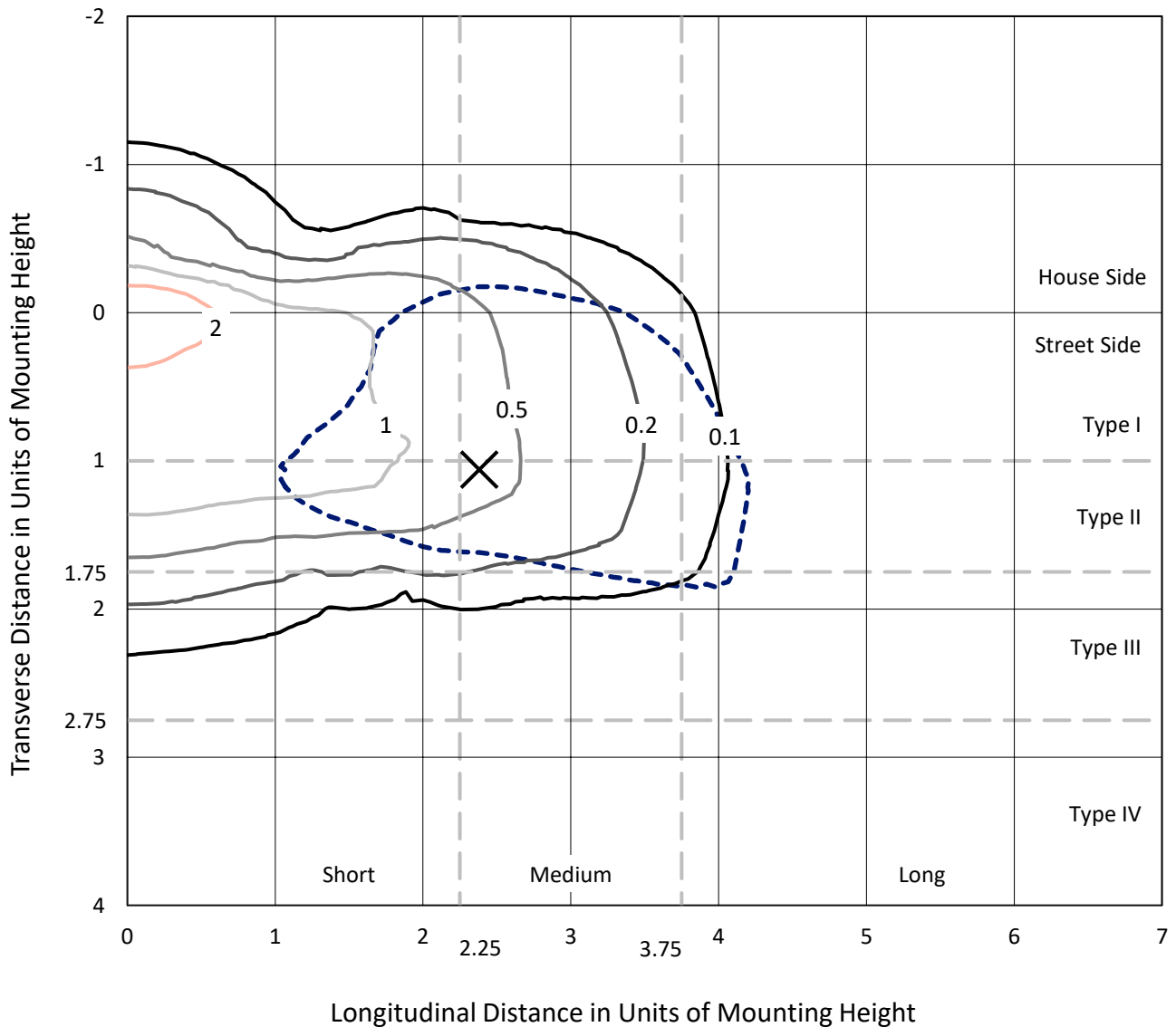
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

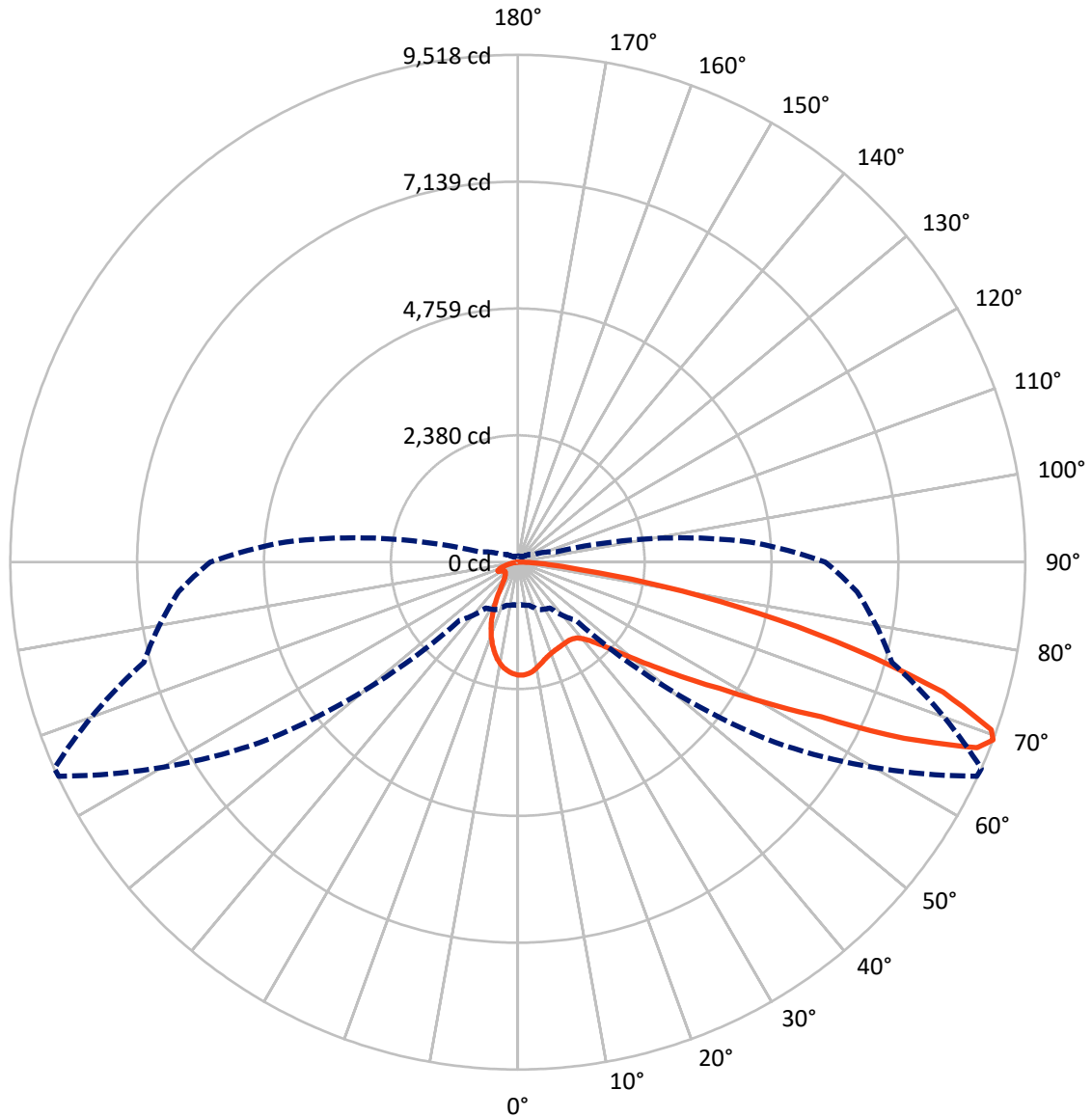
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1726.4	0.0	1726.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7453.6	0.0	7453.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	9180.0	0.0	9180.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	2.0
10°-20°	436.7	4.8
20°-30°	594.4	6.5
30°-40°	798.8	8.7
40°-50°	1192.7	13.0
50°-60°	1897.3	20.7
60°-70°	2333.5	25.4
70°-80°	1518.3	16.5
80°-90°	224.2	2.4
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°	9180.0	100.0
0°-180°	9180.0	100.0



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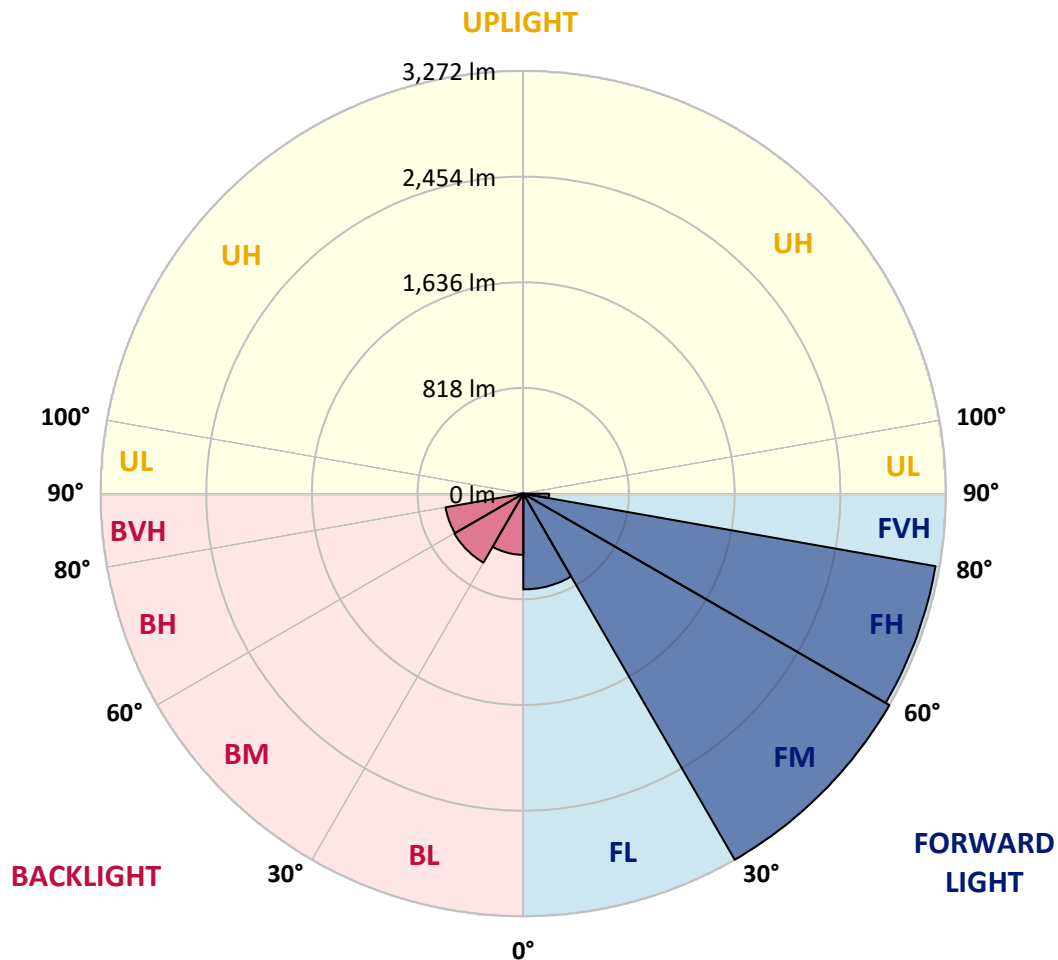
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	741.3	8.1			
FM (30°-60°)	3272.4	35.6			
FH (60°-80°)	3240.6	35.3			G2/5000
FVH (80°-90°)	199.3	2.2			G2/225
BL (0°-30°)	473.9	5.2	B1/500		
BM (30°-60°)	616.4	6.7	B1/1000		
BH (60°-80°)	611.2	6.7	B2/1000		G2/1000
BVH (80°-90°)	24.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9
2.5°	2045.7	2053.8	2063.0	2073.1	2092.5	2103.1	2110.8	2119.4	2120.4	2125.0	2121.4
5°	1894.7	1904.4	1918.1	1937.4	1966.4	2011.6	2058.4	2096.5	2101.1	2122.5	2128.6
7.5°	1768.6	1774.2	1785.4	1816.4	1857.6	1907.9	1976.0	2053.3	2064.5	2115.3	2133.1
10°	1665.9	1671.5	1684.7	1716.8	1757.4	1820.5	1895.2	1996.9	2006.0	2093.5	2134.2
12.5°	1589.2	1594.3	1608.5	1640.0	1686.8	1745.8	1828.1	1935.9	1949.1	2064.5	2124.5
15°	1530.7	1540.4	1552.1	1578.0	1627.3	1684.2	1764.1	1880.0	1890.6	2034.0	2117.9
17.5°	1505.8	1510.4	1518.5	1542.4	1578.5	1634.4	1714.7	1836.2	1849.0	2012.7	2116.4
20°	1506.8	1511.4	1512.9	1526.1	1552.1	1600.4	1679.7	1801.7	1816.9	1993.8	2118.9
22.5°	1541.4	1541.9	1536.3	1531.7	1541.9	1582.1	1654.8	1775.7	1793.5	1985.7	2120.9
25°	1594.8	1603.9	1595.8	1574.4	1555.6	1574.9	1645.1	1761.5	1778.3	1974.0	2118.4
27.5°	1681.2	1682.7	1676.1	1647.1	1598.3	1584.1	1641.0	1750.8	1765.1	1965.4	2105.7
30°	1797.1	1792.5	1786.4	1754.4	1677.6	1619.2	1649.7	1741.2	1755.9	1952.7	2090.4
32.5°	1914.5	1928.8	1923.2	1885.6	1785.9	1687.3	1677.6	1740.2	1752.4	1943.0	2073.7
35°	2039.1	2045.7	2072.1	2052.8	1950.6	1797.6	1730.0	1755.9	1765.6	1943.5	2062.0
37.5°	2136.7	2154.5	2216.5	2233.3	2137.2	1943.5	1814.9	1800.7	1804.7	1968.4	2066.5
40°	2254.6	2285.1	2365.0	2433.6	2370.5	2133.1	1959.3	1883.5	1888.6	2028.4	2096.5
42.5°	2404.1	2425.4	2532.7	2625.7	2615.6	2383.8	2134.2	2019.3	2021.8	2147.9	2180.4
45°	2579.0	2609.5	2730.0	2869.8	2893.7	2667.4	2386.8	2224.6	2223.1	2333.4	2337.0
47.5°	2802.7	2821.5	2940.9	3093.5	3190.0	3023.8	2693.4	2519.5	2503.2	2603.9	2574.9
50°	3008.6	3038.0	3128.5	3295.3	3535.7	3441.2	3096.5	2901.8	2863.7	2957.7	2908.9
52.5°	3095.0	3126.0	3202.2	3409.2	3832.1	3981.1	3608.4	3357.8	3294.3	3366.4	3348.7
55°	2945.0	2985.2	3056.3	3308.0	3962.3	4603.8	4298.8	3885.0	3838.7	3807.7	3812.8
57.5°	2541.9	2580.0	2676.1	2953.6	3806.7	5055.8	5284.5	4562.7	4463.5	4320.7	4345.1
60°	1934.9	1958.8	2008.6	2316.1	3345.6	5173.2	6404.0	5419.3	5356.2	4831.6	4848.9
62.5°	1374.1	1401.1	1435.6	1589.2	2449.3	4842.3	7280.4	6615.5	6390.3	5360.8	5344.0
65°	1115.9	1097.6	1139.3	1210.9	1437.2	3752.8	7477.7	8275.8	7965.7	6057.8	5824.9
67.5°	917.6	898.3	939.5	1067.1	1093.0	2178.4	6767.0	9353.6	9291.5	6815.8	6313.5
69°	812.4	802.2	838.3	983.7	1049.3	1547.0	5895.1	9503.5	9518.3	7262.6	6388.7
70°	732.1	736.1	771.2	941.5	1029.5	1275.5	5038.5	9296.6	9421.7	7485.8	6307.4
72.5°	538.9	547.5	596.3	779.8	1010.6	1082.3	2998.4	8120.2	8341.4	7499.0	5770.0
75°	376.7	372.6	415.8	587.2	954.7	1072.7	1761.0	6279.9	6530.6	6481.8	4848.4
77.5°	246.6	253.2	287.7	414.8	803.2	1064.5	1147.9	4455.4	4618.1	4334.9	2867.7
80°	173.9	173.4	192.7	283.2	595.8	1022.8	940.0	2808.3	2767.1	1703.6	850.5
82.5°	99.6	106.8	129.1	199.3	398.6	900.3	864.7	1343.1	1226.2	485.5	287.2
85°	55.4	58.0	76.8	120.5	232.8	678.2	754.9	611.1	576.5	202.8	123.5
87.5°	17.8	19.3	32.0	61.0	105.7	320.3	427.5	282.1	260.3	73.2	49.8
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°	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9	2119.9
2.5°	2123.0	2129.1	2112.8	2097.0	2082.8	2063.0	2045.2	2030.4	2020.3	2018.8	2013.7
5°	2130.1	2130.6	2099.6	2057.9	2017.2	1972.5	1926.2	1893.2	1862.2	1844.9	1836.2
7.5°	2135.2	2130.6	2074.7	2007.1	1928.8	1847.4	1766.1	1701.0	1650.7	1630.9	1638.5
10°	2133.1	2118.9	2037.1	1928.8	1814.9	1693.4	1576.5	1485.0	1401.1	1357.9	1358.9
12.5°	2122.0	2098.6	1981.1	1840.8	1673.6	1510.9	1331.9	1208.4	1111.3	1053.9	1036.1
15°	2112.3	2071.6	1915.6	1721.4	1513.4	1281.1	1063.0	910.5	829.2	783.9	783.4
17.5°	2102.1	2045.7	1843.9	1594.8	1329.4	1030.5	801.7	685.3	647.2	651.7	644.1
20°	2091.4	2015.2	1769.1	1453.9	1105.2	768.7	600.4	553.1	563.8	584.6	587.7
22.5°	2079.2	1982.7	1688.8	1298.9	869.3	578.5	487.0	479.9	507.4	539.9	544.5
25°	2060.4	1942.0	1587.7	1136.7	670.5	466.2	426.5	431.6	458.6	486.0	489.1
27.5°	2034.0	1891.7	1485.5	934.4	503.8	400.1	389.9	396.5	409.7	426.5	430.6
30°	1998.4	1834.7	1368.0	759.5	403.6	367.0	363.0	366.5	374.2	381.3	383.3
32.5°	1962.8	1779.8	1249.6	581.6	359.9	345.2	341.1	341.1	341.1	342.1	342.6
35°	1929.8	1728.0	1122.5	453.0	337.1	327.9	322.3	316.2	315.2	311.6	311.6
37.5°	1911.5	1680.7	987.3	379.2	320.3	313.7	306.0	295.9	290.3	290.8	289.8
40°	1915.0	1649.7	864.2	337.6	306.5	299.4	287.7	276.0	272.5	272.5	271.5
42.5°	1955.2	1639.5	746.3	315.7	293.3	285.2	270.5	259.8	257.7	257.2	258.3
45°	2047.7	1664.4	640.6	301.5	282.1	269.9	255.2	245.5	243.5	243.5	243.0
47.5°	2228.2	1745.2	564.8	292.3	274.0	258.3	243.0	233.3	229.8	228.8	228.8
50°	2508.8	1920.6	508.4	284.2	263.8	247.6	231.8	220.6	215.0	214.5	214.0
52.5°	2898.7	2194.1	486.5	278.1	252.7	236.4	219.1	208.4	201.3	199.8	198.8
55°	3354.8	2575.9	516.5	273.5	241.0	223.7	205.9	194.7	188.1	185.0	184.5
57.5°	3883.0	3034.5	630.4	267.4	230.3	210.0	192.7	181.5	174.4	170.8	169.8
60°	4357.3	3505.7	829.2	263.8	221.1	195.2	177.4	167.3	160.6	157.1	156.6
62.5°	4878.4	3955.1	1066.6	273.5	217.1	181.0	163.2	154.0	148.4	144.9	144.9
65°	5435.0	4405.1	1223.7	306.0	223.2	169.8	147.9	140.3	135.2	132.7	132.2
67.5°	5810.2	4560.6	1008.1	339.6	238.4	157.6	133.2	127.1	124.0	121.5	121.5
69°	5769.5	4363.9	743.8	348.2	243.0	151.5	125.1	120.5	116.4	115.4	114.4
70°	5640.9	4139.7	623.3	342.6	239.4	145.9	120.0	114.4	110.8	109.8	109.3
72.5°	5024.3	3590.1	464.1	297.9	203.9	126.6	106.3	101.2	98.1	96.6	96.6
75°	4174.3	2934.3	362.5	236.9	159.6	106.8	91.0	86.9	84.4	83.4	82.9
77.5°	2339.5	1638.5	260.3	185.6	121.0	86.4	76.3	72.7	70.2	69.1	69.1
80°	651.7	468.2	153.0	122.5	82.4	65.6	60.5	58.0	54.4	51.9	53.4
82.5°	245.5	202.8	87.4	73.7	52.4	43.7	42.2	40.2	38.6	35.1	35.1
85°	119.5	98.6	55.9	39.1	29.0	22.9	21.9	20.8	19.8	17.3	17.8
87.5°	41.2	43.7	24.4	14.2	8.6	5.6	4.6	2.5	2.5	2.5	2.5
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)