

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: P458664

Luminaire Tested: **GALN-SA2B-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8724 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

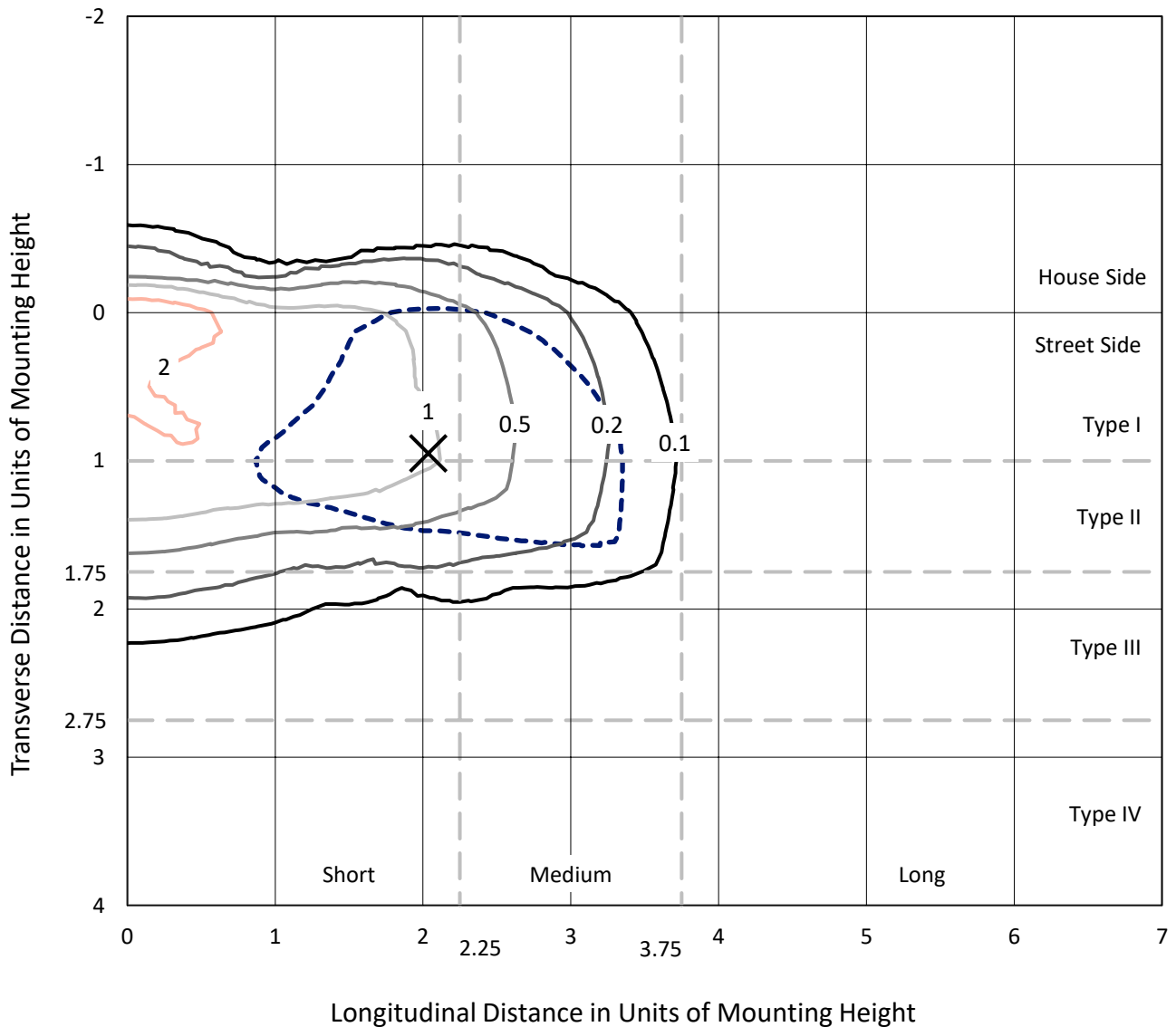
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

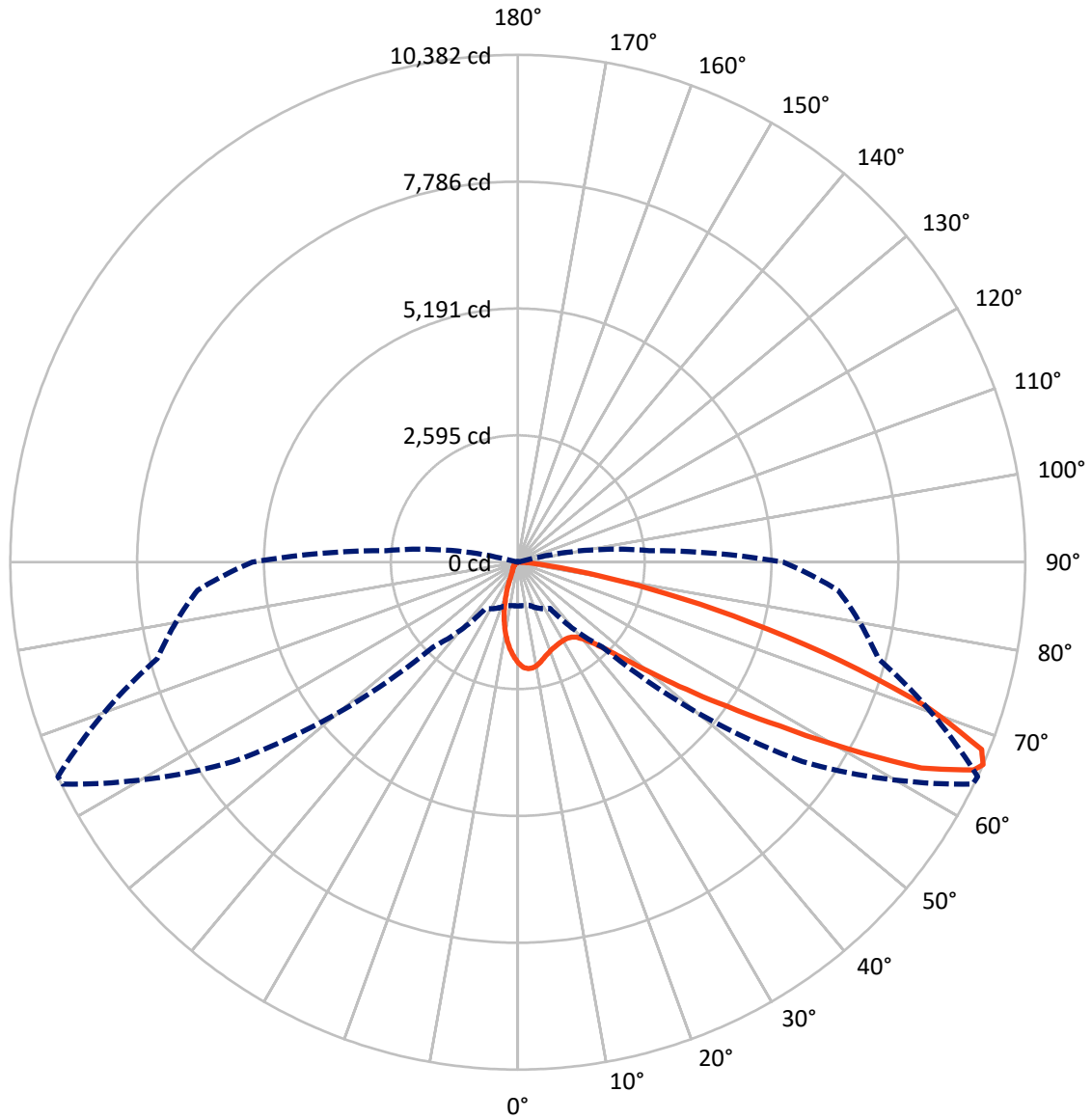
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	902.2	0.0	902.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7821.8	0.0	7821.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	8724.0	0.0	8724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	1.9
10°-20°	368.6	4.2
20°-30°	528.1	6.1
30°-40°	771.3	8.8
40°-50°	1293.4	14.8
50°-60°	2158.4	24.7
60°-70°	2291.1	26.3
70°-80°	1037.6	11.9
80°-90°	106.2	1.2
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°	8724.0	100.0
0°-180°	8724.0	100.0

Coefficient of Utilization



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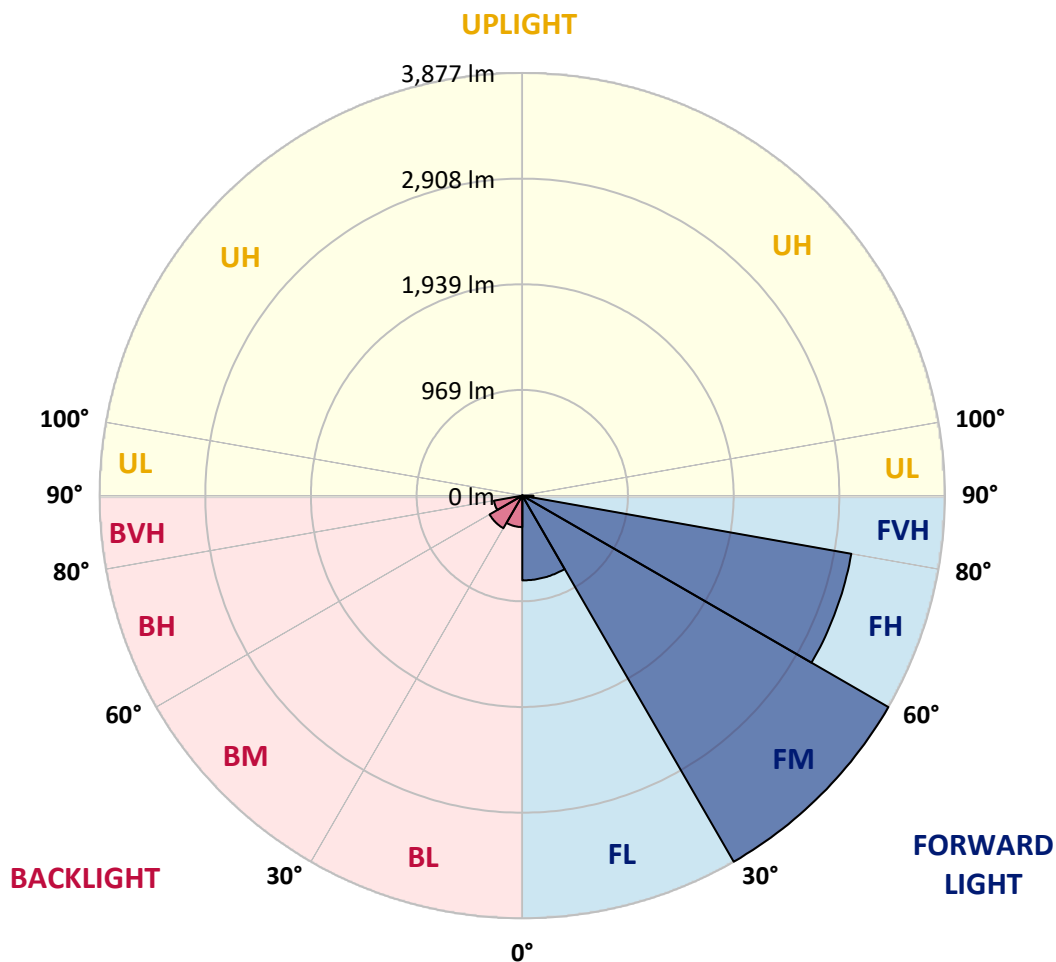
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	777.3	8.9			
FM (30°-60°)	3877.2	44.4			
FH (60°-80°)	3064.5	35.1			G2/5000
FVH (80°-90°)	102.8	1.2			G2/225
BL (0°-30°)	288.6	3.3	B1/500		
BM (30°-60°)	346.0	4.0	B1/1000		
BH (60°-80°)	264.2	3.0	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8
2.5°	2180.1	2182.5	2185.4	2189.6	2192.5	2183.7	2171.3	2157.2	2154.2	2124.2	2087.6
5°	2063.5	2067.0	2092.9	2107.1	2138.9	2167.8	2186.0	2188.4	2187.2	2158.9	2100.6
7.5°	1897.3	1907.3	1932.7	1957.4	2016.9	2071.7	2136.5	2181.9	2184.9	2177.2	2104.7
10°	1762.4	1768.9	1781.8	1830.7	1880.2	1963.9	2054.6	2140.1	2147.1	2177.8	2101.2
12.5°	1656.9	1666.3	1682.2	1720.0	1779.5	1858.4	1961.5	2076.4	2091.2	2166.6	2091.2
15°	1583.3	1588.0	1603.9	1641.0	1698.7	1771.8	1876.1	2009.9	2022.8	2151.9	2089.4
17.5°	1548.5	1553.8	1565.0	1594.5	1642.2	1709.9	1811.9	1956.2	1972.7	2142.4	2095.9
20°	1557.9	1562.6	1563.2	1578.5	1611.0	1668.1	1764.7	1906.2	1927.4	2136.5	2106.5
22.5°	1611.5	1612.1	1605.1	1598.0	1609.2	1650.4	1735.9	1874.3	1896.1	2135.4	2118.9
25°	1691.7	1693.4	1681.7	1656.9	1634.5	1655.7	1729.4	1853.7	1873.2	2132.4	2126.5
27.5°	1802.5	1801.9	1798.3	1757.1	1693.4	1679.3	1734.7	1842.5	1859.0	2124.2	2129.5
30°	1957.4	1952.7	1945.0	1898.5	1801.3	1736.5	1757.1	1835.4	1850.8	2112.4	2121.8
32.5°	2110.0	2127.7	2126.5	2082.3	1961.0	1838.4	1803.6	1844.9	1856.1	2104.7	2110.6
35°	2288.0	2287.4	2332.8	2316.3	2174.3	1968.6	1883.2	1876.1	1884.9	2110.0	2105.3
37.5°	2453.0	2468.3	2539.0	2556.1	2426.4	2152.5	1995.7	1943.3	1946.2	2146.0	2118.3
40°	2658.6	2688.1	2793.5	2850.7	2736.4	2425.3	2161.9	2066.4	2067.0	2234.4	2167.2
42.5°	2923.8	2970.3	3068.7	3164.2	3102.9	2748.2	2411.1	2261.5	2260.3	2389.9	2279.1
45°	3246.1	3278.5	3390.4	3541.9	3503.0	3198.9	2774.1	2563.7	2548.4	2645.0	2477.7
47.5°	3524.2	3568.4	3682.1	3854.7	4031.5	3749.3	3207.8	2979.1	2969.1	3051.0	2818.3
50°	3645.6	3684.4	3804.1	4046.2	4474.6	4471.7	3853.6	3585.5	3568.4	3612.6	3345.1
52.5°	3512.4	3548.9	3669.7	3971.4	4683.2	5352.0	4789.3	4346.2	4325.5	4269.0	3974.3
55°	3056.3	3086.4	3264.9	3611.4	4603.1	5938.8	6078.5	5286.0	5205.8	4986.1	4686.7
57.5°	2433.5	2418.2	2529.0	2931.4	4132.9	6135.6	7401.9	6456.8	6313.6	5605.9	5289.5
60°	1686.4	1733.5	1778.3	2043.4	3107.6	5794.5	8225.0	7928.7	7740.1	6215.8	5867.0
62.5°	1239.7	1271.0	1300.4	1423.0	1953.9	4626.6	8370.6	9440.6	9273.3	6863.3	6417.9
65°	980.5	982.8	994.6	1115.4	1287.5	3008.6	7671.2	10293.2	10250.2	7486.7	6641.2
66°	893.3	893.9	912.1	1041.8	1155.5	2450.0	7110.8	10358.1	10381.6	7636.4	6575.8
67.5°	780.7	778.4	804.9	936.3	1052.4	1766.5	6107.9	10095.3	10234.9	7751.3	6340.7
70°	605.1	602.2	634.6	785.4	969.3	1178.5	4059.8	8668.1	8893.2	7516.2	5610.0
72.5°	403.0	405.4	460.8	619.9	925.1	1037.6	2442.4	6594.1	6912.2	6206.9	4413.3
75°	235.1	239.2	302.3	460.8	803.1	989.3	1382.3	4702.0	4905.3	4286.0	2749.3
77.5°	123.1	124.9	169.1	304.0	615.7	918.6	921.0	3003.9	3099.3	2082.9	1088.3
80°	65.4	63.6	90.7	183.3	423.7	806.7	747.1	1590.3	1653.4	618.7	275.2
82.5°	24.7	27.1	48.3	120.2	250.4	579.2	643.4	702.9	681.1	136.1	115.5
85°	4.7	5.9	20.6	71.3	126.1	242.2	474.3	344.7	319.4	51.3	66.6
87.5°	0.6	1.2	5.9	17.1	18.3	81.9	140.2	95.5	82.5	18.9	27.7
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°	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8	2068.8
2.5°	2070.0	2054.1	2001.0	1948.6	1895.0	1846.6	1813.6	1760.0	1746.5	1727.0	1715.8
5°	2065.8	2028.7	1926.8	1815.4	1711.7	1599.8	1514.3	1431.8	1387.6	1365.2	1357.0
7.5°	2054.1	1995.1	1836.0	1661.6	1495.5	1328.1	1182.6	1071.8	1000.5	951.6	918.6
10°	2030.5	1949.2	1730.6	1490.7	1239.7	1018.8	834.3	694.1	585.7	551.5	552.7
12.5°	2006.3	1897.9	1612.7	1301.0	989.9	711.2	515.6	404.8	352.9	335.9	332.3
15°	1983.9	1849.0	1497.2	1117.2	737.1	460.8	332.3	293.4	279.3	276.3	275.8
17.5°	1972.1	1803.6	1374.1	906.8	514.4	312.9	266.3	255.7	251.6	248.7	247.5
20°	1962.1	1764.2	1256.2	710.0	351.8	256.3	238.6	228.6	221.6	218.6	216.8
22.5°	1955.1	1723.5	1134.3	549.8	269.3	227.4	211.5	198.6	188.6	185.0	182.7
25°	1944.5	1678.7	1011.1	401.9	226.9	202.1	183.8	168.5	155.6	149.1	147.9
27.5°	1929.1	1628.0	876.2	297.6	202.7	179.7	157.3	138.5	125.5	118.4	119.0
30°	1904.4	1575.0	741.2	236.3	183.3	156.7	132.6	114.3	101.9	96.6	96.0
32.5°	1874.9	1510.8	617.5	202.7	165.6	136.1	110.8	94.9	85.4	81.3	80.7
35°	1847.2	1446.0	491.4	182.1	147.3	117.3	93.1	79.5	72.5	68.9	69.5
37.5°	1831.9	1388.2	383.0	165.6	132.6	100.8	80.1	68.4	61.9	58.9	58.3
40°	1841.9	1341.1	304.6	150.8	116.1	86.6	68.9	58.9	52.4	48.3	48.3
42.5°	1889.1	1320.5	245.7	136.7	100.8	74.8	60.1	50.7	43.6	39.5	40.1
45°	2032.8	1342.3	205.6	123.7	86.6	64.8	51.9	41.8	35.4	32.4	31.8
47.5°	2271.5	1424.2	177.9	110.2	74.2	55.4	43.6	34.8	28.3	25.9	25.3
50°	2688.7	1593.3	157.3	96.6	63.0	47.1	35.9	27.7	22.4	20.0	20.0
52.5°	3262.6	1962.1	142.6	81.3	53.0	40.1	29.5	22.4	17.7	15.9	15.3
55°	3862.4	2351.0	134.9	68.4	44.2	33.0	23.6	17.7	13.6	11.8	11.2
57.5°	4439.2	2656.2	126.1	55.4	35.4	25.3	18.3	13.6	9.4	8.2	7.7
60°	4992.5	2903.1	107.2	44.2	27.7	18.3	13.6	9.4	6.5	5.3	5.3
62.5°	5487.5	3046.9	84.3	35.4	21.2	13.0	8.8	7.1	4.7	3.5	3.5
65°	5545.2	2860.1	63.6	27.1	15.3	8.2	5.3	5.3	3.5	2.4	2.4
66°	5429.2	2701.6	56.0	24.7	13.6	7.1	4.7	4.1	2.9	1.8	1.8
67.5°	5169.9	2431.2	48.3	21.2	11.2	5.3	3.5	3.5	2.4	1.2	1.2
70°	4466.9	1985.7	38.3	15.9	8.2	4.1	2.4	2.4	1.8	1.2	1.2
72.5°	3404.6	1482.5	31.2	11.8	5.9	2.9	1.8	1.8	1.8	1.2	1.2
75°	2053.5	798.4	24.2	8.8	5.3	2.4	1.2	1.8	2.4	1.8	1.2
77.5°	756.6	271.6	18.9	7.1	4.1	2.4	1.2	1.2	2.4	1.8	1.8
80°	185.6	70.7	13.6	5.9	4.1	2.4	1.2	1.2	2.4	2.4	2.4
82.5°	86.0	30.1	9.4	5.3	4.1	2.4	1.2	1.2	1.8	2.4	2.4
85°	49.5	14.1	7.7	5.9	4.1	2.4	1.2	1.2	1.8	2.4	2.4
87.5°	20.0	7.1	7.1	5.9	4.7	2.9	1.2	1.2	1.2	1.8	1.8
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)