

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: P651788

Luminaire Tested: **GALN-SA3A-840-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651788  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-840-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11238.3 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

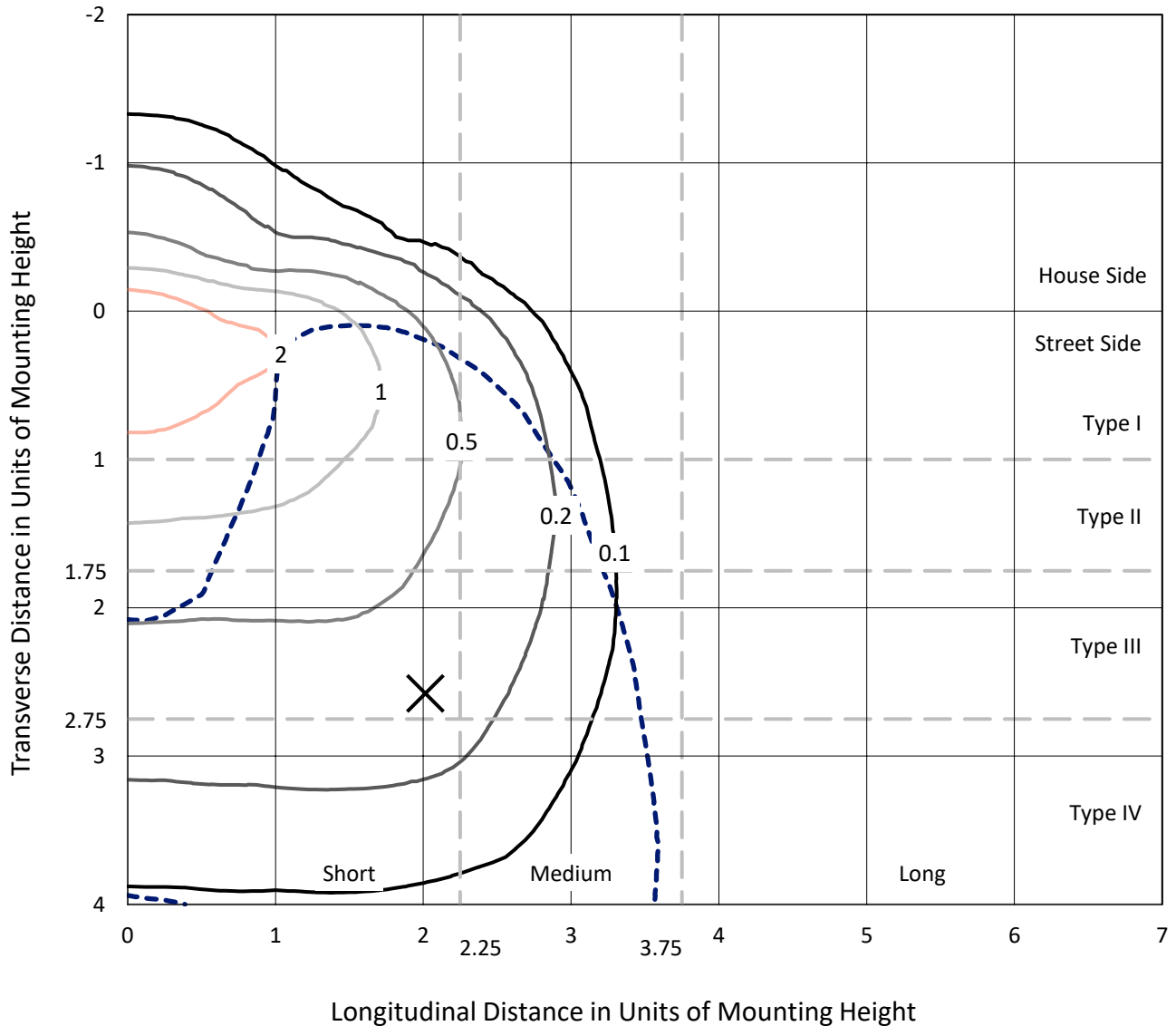
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

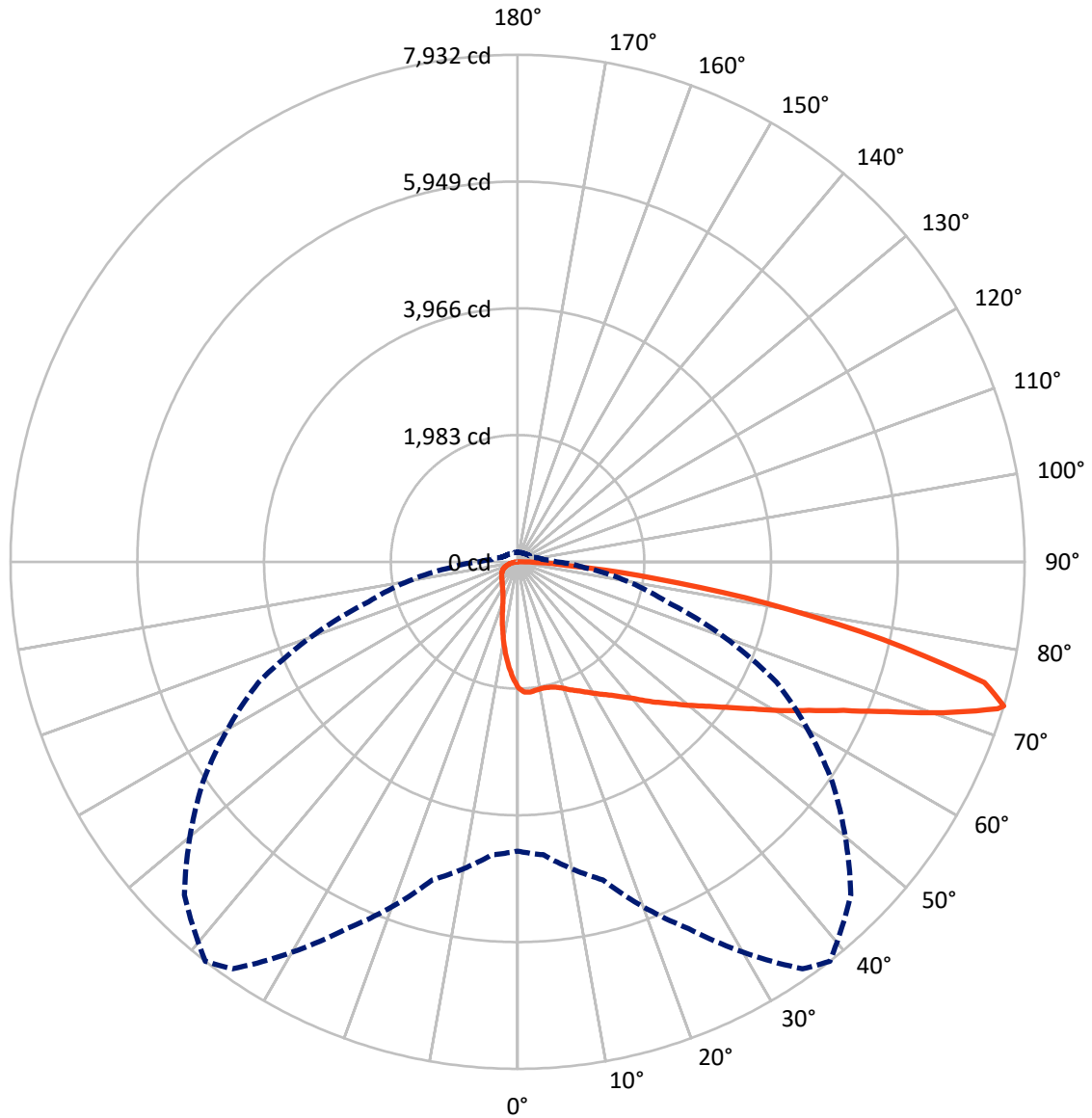
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1510.8	0.0	1510.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	9727.5	0.0	9727.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	11238.3	0.0	11238.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.3	1.5
10°-20°	441.9	3.9
20°-30°	688.2	6.1
30°-40°	1009.4	9.0
40°-50°	1497.3	13.3
50°-60°	2121.4	18.9
60°-70°	2691.1	23.9
70°-80°	2240.1	19.9
80°-90°	376.4	3.3
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°	11238.3	100.0
0°-180°	11238.3	100.0

**Coefficient of Utilization**



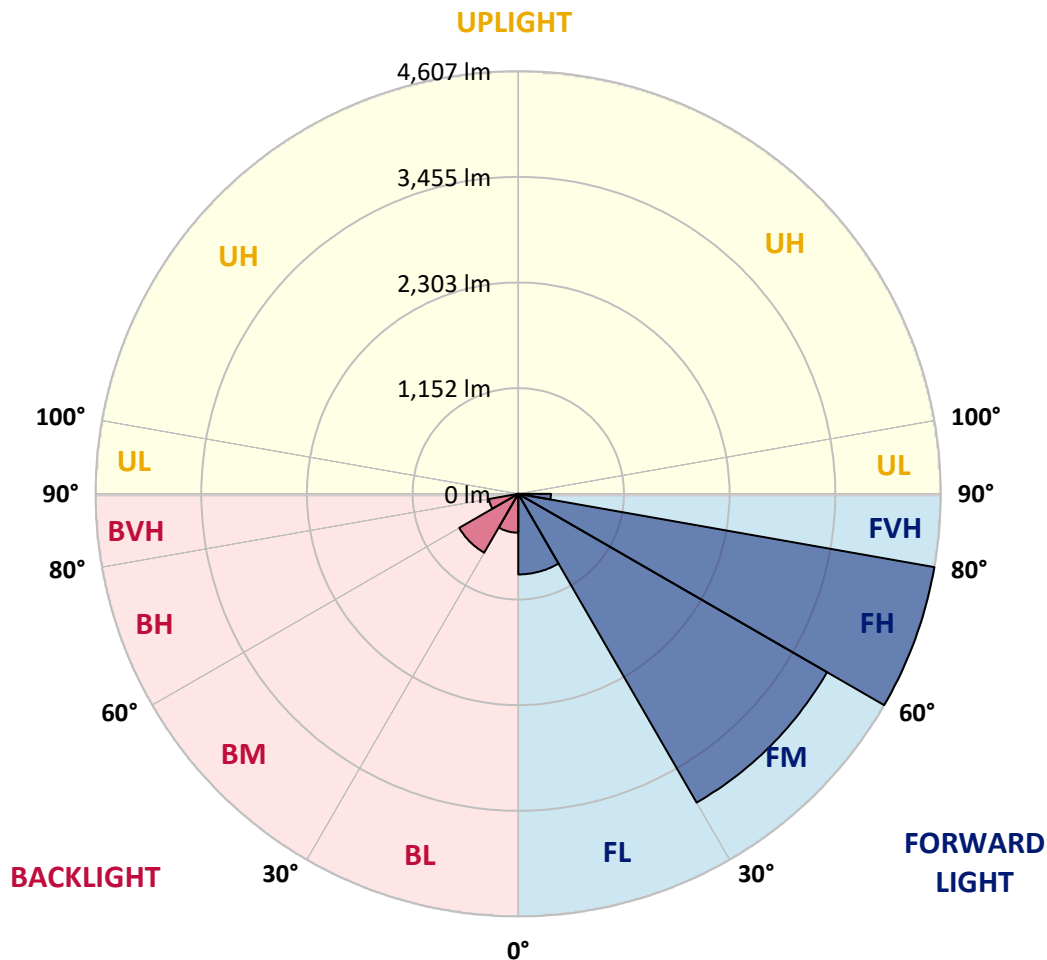
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.5	7.8			
FM (30°-60°)	3886.5	34.6			
FH (60°-80°)	4606.5	41.0			G2/5000
FVH (80°-90°)	356.0	3.2			G3/500
BL (0°-30°)	423.9	3.8	B1/500		
BM (30°-60°)	741.7	6.6	B1/1000		
BH (60°-80°)	324.7	2.9	B1/500		G1/500
BVH (80°-90°)	20.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	2053.7	2063.9	2058.8	2051.8	2047.3	2043.0	2036.6	2018.1	2003.6	1987.7	1963.0
5°	2068.9	2075.3	2070.9	2062.0	2051.8	2047.3	2035.3	2011.2	1987.7	1961.0	1924.2
7.5°	2060.0	2062.6	2057.5	2046.7	2037.8	2029.6	2015.6	1989.0	1960.5	1928.1	1879.8
10°	2028.3	2037.8	2037.8	2029.0	2020.1	2015.6	2001.7	1976.3	1950.3	1913.4	1856.3
12.5°	2002.3	2012.4	2020.7	2018.1	2017.6	2017.6	2006.7	1987.7	1957.3	1922.4	1854.4
15°	1984.5	1996.6	2014.4	2024.5	2030.8	2032.8	2028.3	2011.8	1980.7	1940.1	1862.1
17.5°	1980.7	1995.4	2027.7	2049.9	2066.4	2065.7	2064.5	2041.6	2007.4	1965.5	1871.6
20°	1997.9	2016.9	2062.0	2096.9	2121.0	2116.5	2109.6	2079.7	2039.8	1992.7	1880.5
22.5°	2049.3	2068.9	2118.5	2156.5	2180.0	2180.0	2159.0	2119.7	2077.2	2024.5	1892.5
25°	2122.9	2144.5	2197.1	2235.9	2246.6	2238.4	2217.5	2169.9	2121.0	2070.2	1917.9
27.5°	2213.0	2239.0	2287.9	2320.2	2317.1	2310.7	2289.1	2228.2	2179.4	2133.0	1961.0
30°	2325.4	2344.4	2395.2	2402.7	2391.3	2390.0	2359.6	2298.7	2253.0	2217.5	2022.6
32.5°	2431.3	2448.5	2489.1	2492.2	2472.0	2474.5	2445.9	2390.0	2364.1	2351.4	2126.0
35°	2543.7	2552.5	2587.4	2583.6	2570.3	2568.4	2557.0	2503.7	2511.9	2534.8	2272.6
37.5°	2637.5	2655.4	2675.1	2678.2	2677.6	2683.9	2691.5	2666.1	2713.7	2785.5	2465.0
40°	2723.9	2739.1	2768.3	2778.5	2803.2	2815.9	2841.9	2842.6	2952.3	3070.4	2701.7
42.5°	2782.3	2808.3	2862.8	2881.3	2941.6	2979.7	3018.3	3059.6	3218.9	3370.6	2980.9
45°	2833.1	2867.3	2958.0	3015.2	3097.1	3143.4	3225.2	3311.6	3540.7	3739.3	3264.6
47.5°	2909.9	2940.3	3044.4	3145.3	3269.1	3322.4	3444.8	3573.7	3873.2	4090.9	3536.2
50°	3016.5	3034.8	3140.9	3305.2	3463.2	3531.8	3693.6	3879.6	4228.6	4438.0	3774.8
52.5°	3152.9	3160.6	3244.9	3463.9	3672.1	3757.1	3971.6	4188.7	4539.6	4739.5	3964.0
55°	3314.1	3301.4	3367.4	3632.0	3910.6	4021.7	4252.1	4501.5	4889.3	4983.3	4101.7
57.5°	3473.4	3453.7	3506.4	3836.4	4205.2	4339.1	4607.5	4823.9	5201.5	5211.1	4198.2
60°	3642.2	3627.7	3690.5	4076.3	4566.3	4724.9	4973.1	5158.4	5503.6	5369.7	4213.4
62.5°	3815.4	3792.0	3881.5	4346.0	4973.1	5117.1	5357.7	5513.8	5800.0	5428.7	4066.8
65°	3983.6	3972.9	4111.2	4666.5	5436.4	5600.1	5833.7	5939.6	6037.4	5339.9	3703.2
67.5°	4162.6	4184.2	4405.1	5094.3	6040.6	6246.2	6498.2	6398.5	6105.2	4919.1	3118.6
70°	4435.5	4449.5	4790.9	5654.6	6819.2	7067.4	7189.2	6561.6	5777.8	4120.1	2344.4
72.5°	4552.9	4614.5	5135.6	6243.0	7703.9	7855.6	7421.5	6197.9	4813.1	2798.8	1231.8
73°	4526.9	4600.5	5151.4	6332.5	7773.1	7932.4	7372.0	6010.7	4474.2	2410.4	1056.0
75°	4202.6	4293.4	4945.2	6257.5	7638.6	7543.3	6576.2	5122.9	3023.5	1096.0	481.1
77.5°	3316.0	3342.0	3918.3	5053.1	6015.2	5838.7	4921.7	3201.8	1235.0	407.5	272.9
80°	1663.4	1759.2	2208.6	2894.6	4022.3	3964.6	3106.6	1514.2	514.7	239.3	180.9
82.5°	800.3	868.2	1075.7	1411.5	2222.5	2169.9	1538.4	827.5	326.8	139.6	106.6
85°	515.4	566.1	684.7	673.4	913.9	872.6	691.1	626.4	193.6	73.0	74.3
87.5°	340.2	372.6	446.8	357.3	332.5	300.8	305.3	352.9	38.1	27.9	10.2
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°	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4	1974.4
2.5°	1952.8	1944.6	1917.2	1890.6	1865.3	1841.1	1825.2	1804.3	1790.3	1794.1	1799.8
5°	1903.9	1885.5	1837.3	1790.3	1745.9	1693.3	1650.7	1616.4	1590.4	1580.9	1579.0
7.5°	1852.6	1821.4	1752.2	1671.7	1596.1	1530.8	1455.3	1417.8	1374.0	1358.8	1353.7
10°	1821.4	1779.6	1682.4	1570.1	1456.5	1348.0	1266.1	1199.4	1139.2	1127.8	1122.1
12.5°	1812.5	1757.4	1626.6	1481.9	1330.9	1197.6	1076.4	988.8	930.4	917.0	897.3
15°	1807.5	1738.9	1574.5	1393.0	1201.4	1038.9	911.3	809.2	755.9	720.3	721.0
17.5°	1803.0	1718.0	1516.2	1296.0	1089.7	902.5	761.6	669.5	620.7	601.7	599.7
20°	1796.7	1693.3	1448.9	1193.8	962.1	778.1	650.5	582.0	549.0	533.1	532.4
22.5°	1794.1	1669.1	1382.9	1089.7	849.2	682.2	576.9	528.7	507.7	496.9	496.9
25°	1800.5	1652.0	1313.7	990.7	748.9	600.4	526.1	493.1	481.1	475.3	473.5
27.5°	1820.2	1644.3	1245.2	891.7	656.8	544.5	491.8	469.0	460.1	455.7	456.3
30°	1857.6	1643.7	1177.9	793.9	588.3	502.0	464.6	448.7	441.7	439.2	438.5
32.5°	1917.9	1657.7	1111.9	713.3	530.6	466.5	439.2	427.7	424.5	422.7	422.0
35°	2020.1	1697.1	1046.5	639.7	486.1	434.7	415.0	409.3	404.9	406.8	407.5
37.5°	2157.8	1764.9	984.3	582.0	452.5	411.2	394.8	389.6	387.1	389.0	391.0
40°	2342.4	1862.6	932.3	535.6	428.4	391.6	376.9	372.6	370.0	373.2	373.8
42.5°	2546.2	1975.7	889.1	499.5	408.7	375.1	361.1	356.0	354.1	356.0	356.7
45°	2755.6	2107.0	866.9	473.5	392.2	363.0	348.4	342.7	338.3	337.0	338.9
47.5°	2961.9	2221.2	866.3	457.6	378.9	352.2	336.4	330.0	324.3	321.1	320.5
50°	3130.0	2312.0	881.5	450.6	367.4	340.2	324.3	318.0	310.3	304.0	305.3
52.5°	3257.0	2371.0	888.5	447.4	361.1	327.5	311.6	305.9	297.0	288.8	288.8
55°	3338.9	2385.0	871.4	444.2	356.0	314.1	297.0	291.9	283.1	274.8	274.8
57.5°	3366.8	2341.8	809.8	436.6	350.9	302.8	282.4	278.0	271.0	262.7	261.5
60°	3302.0	2195.9	701.9	413.8	340.8	290.6	266.5	264.7	262.1	255.2	254.5
62.5°	3052.7	1886.2	584.5	384.0	323.7	278.0	252.0	255.2	257.0	253.2	252.6
65°	2637.5	1531.4	499.5	342.7	300.8	260.2	236.1	244.3	249.4	249.4	248.2
67.5°	2139.4	1176.0	420.8	307.1	272.2	236.1	218.3	224.6	228.5	227.2	230.3
70°	1520.6	796.5	342.7	266.5	236.1	208.8	195.4	195.4	192.9	191.7	191.7
72.5°	737.5	455.1	278.0	222.8	201.2	178.4	167.5	163.1	158.0	157.4	154.2
73°	616.2	408.1	265.3	214.5	192.9	173.9	161.8	154.8	151.7	149.1	148.5
75°	375.1	309.7	221.5	180.9	164.3	149.8	139.0	132.6	129.4	127.6	126.9
77.5°	246.9	231.0	172.0	138.3	125.6	116.8	112.4	106.0	104.1	101.5	101.5
80°	184.0	176.4	123.1	97.7	90.2	82.5	81.2	80.0	74.8	71.7	70.5
82.5°	118.7	125.6	83.8	65.3	57.1	50.8	51.4	53.3	48.3	43.8	42.6
85°	84.4	90.7	50.8	29.9	24.1	20.9	23.5	20.9	21.6	17.2	14.0
87.5°	14.0	24.1	8.9	3.8	1.9	1.3	0.0	0.0	0.0	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)