

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: P528866

Luminaire Tested: **GALN-SA4A-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13295 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

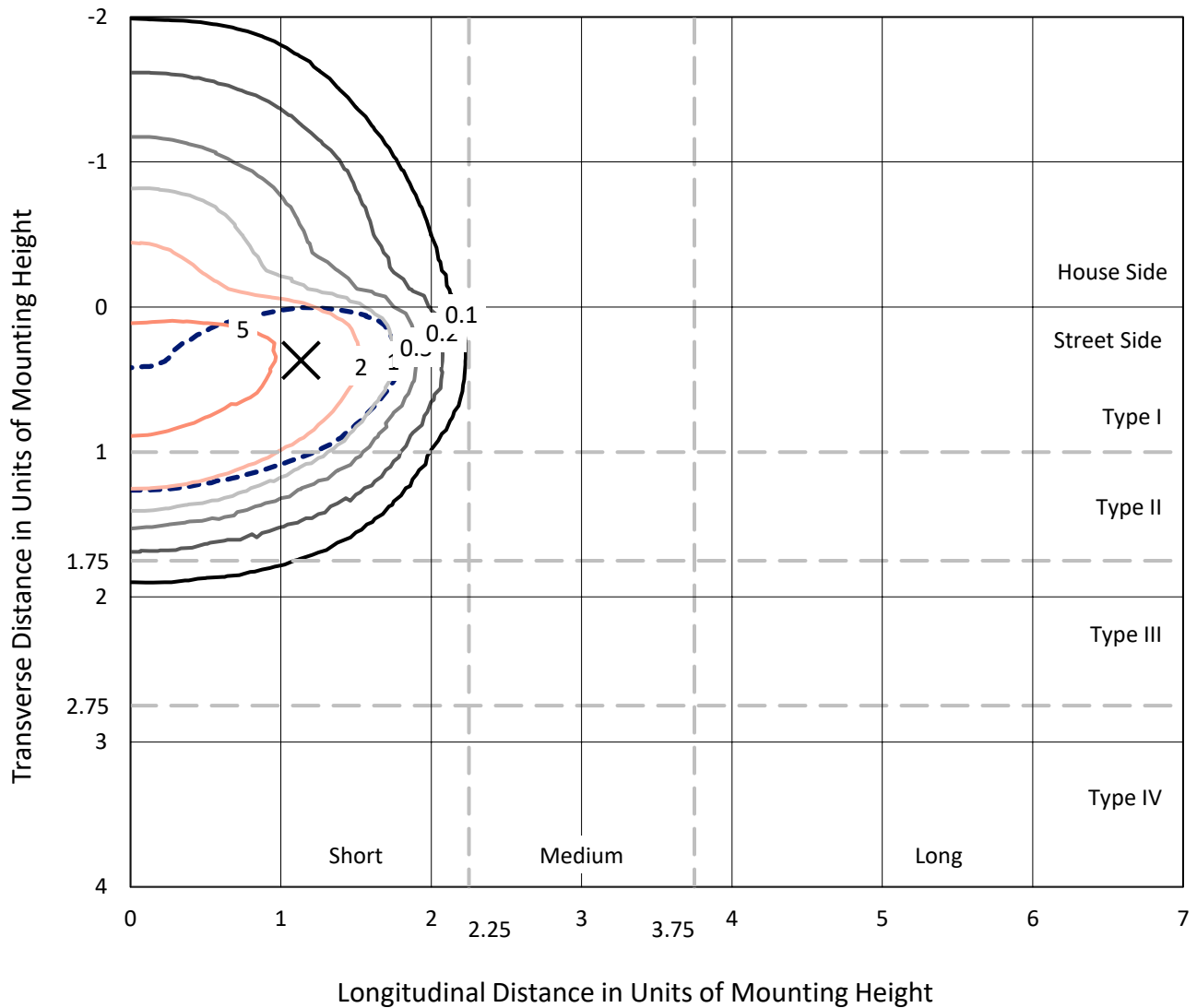
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

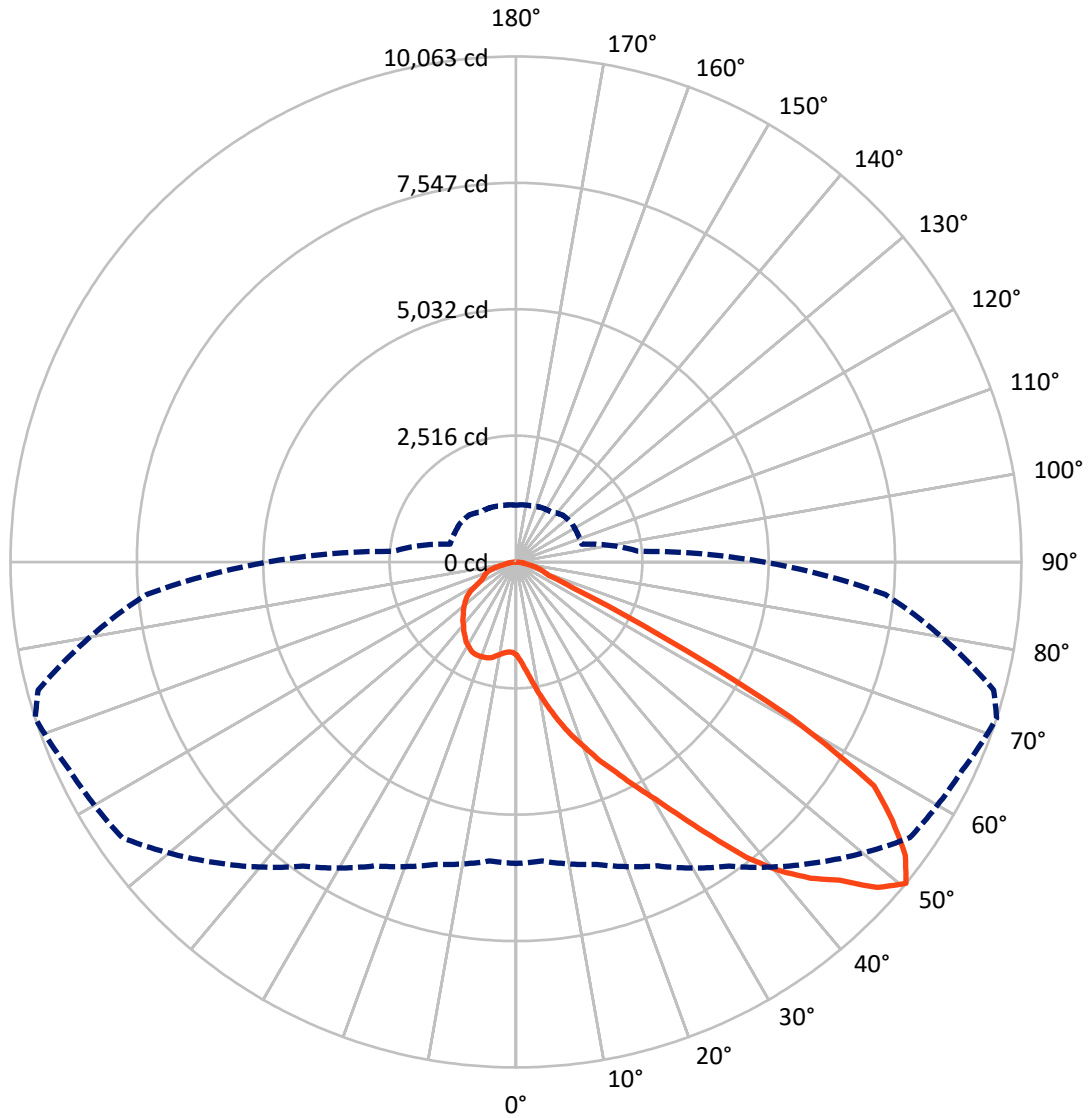
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3046.0	0.0	3046.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10249.0	0.0	10249.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	13295.0	0.0	13295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	1.6
10°-20°	813.8	6.1
20°-30°	1578.0	11.9
30°-40°	2614.1	19.7
40°-50°	3657.7	27.5
50°-60°	3085.8	23.2
60°-70°	940.5	7.1
70°-80°	330.0	2.5
80°-90°	57.4	0.4
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°	13295.0	100.0
0°-180°	13295.0	100.0

Coefficient of Utilization

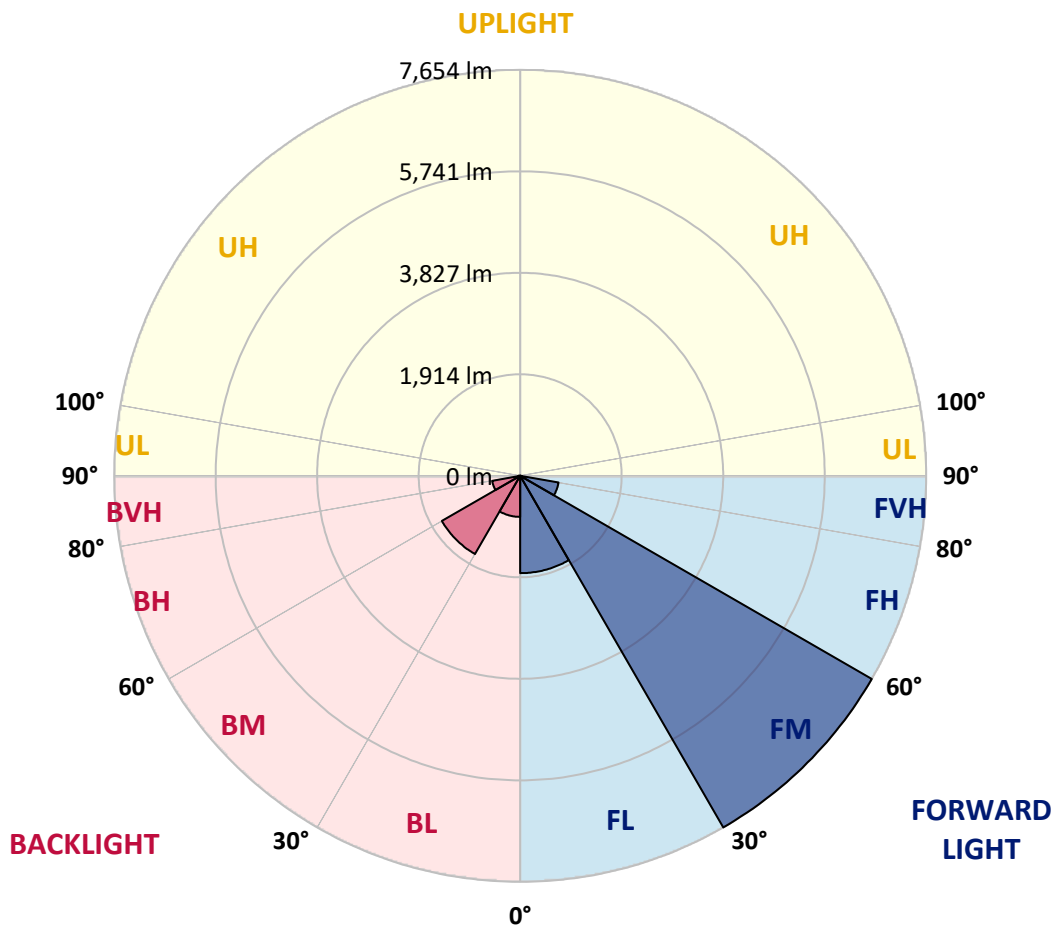


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.2	13.8			
FM (30°-60°)	7654.3	57.6			
FH (60°-80°)	733.9	5.5			G1/1800
FVH (80°-90°)	25.7	0.2			G1/100
BL (0°-30°)	774.3	5.8	B2/1000		
BM (30°-60°)	1703.4	12.8	B2/2500		
BH (60°-80°)	536.6	4.0	B2/1000		G2/1000
BVH (80°-90°)	31.7	0.2			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8
2.5°	2380.5	2365.7	2321.3	2306.5	2253.8	2158.4	2125.5	2028.5	1987.3	1949.5	1905.1
5°	3010.6	2941.5	2936.6	2852.7	2730.9	2660.2	2449.6	2308.1	2178.2	2112.4	1990.6
7.5°	3412.0	3413.7	3413.7	3344.6	3247.5	3068.2	2879.0	2624.0	2428.2	2331.2	2123.9
10°	3793.7	3760.8	3742.7	3736.1	3670.3	3495.9	3293.6	2977.7	2709.5	2596.0	2224.2
12.5°	4063.5	4035.5	4076.6	4055.3	4007.5	3894.0	3703.2	3342.9	3007.3	2854.3	2385.4
15°	4191.8	4211.5	4244.4	4303.7	4282.3	4239.5	4028.9	3718.0	3328.1	3155.4	2528.6
17.5°	4389.2	4334.9	4374.4	4448.4	4507.7	4487.9	4367.8	3989.5	3645.6	3433.4	2721.1
20°	4527.4	4496.2	4515.9	4601.4	4645.9	4757.7	4695.2	4344.8	3950.0	3726.2	2948.1
22.5°	4922.2	4876.2	4812.0	4825.2	4841.6	4920.6	4935.4	4734.7	4303.7	4066.8	3163.6
25°	5409.2	5366.4	5290.8	5213.4	5165.7	5150.9	5201.9	5040.7	4642.6	4397.4	3395.6
27.5°	5945.5	5873.1	5825.4	5665.8	5537.5	5517.8	5493.1	5405.9	5044.0	4779.1	3657.1
30°	6467.0	6409.4	6345.3	6090.3	5957.0	5935.6	5813.9	5838.6	5479.9	5185.5	3953.3
32.5°	6861.9	6866.8	6720.4	6527.9	6402.9	6289.4	6244.9	6315.7	6039.3	5802.4	4283.9
35°	7181.0	7195.8	7056.0	6881.6	6746.7	6825.7	6805.9	6838.8	6707.2	6417.7	4668.9
37.5°	7491.9	7417.9	7268.2	7184.3	7113.6	7243.5	7411.3	7439.3	7464.0	7123.4	5116.4
40°	7542.9	7549.5	7462.3	7521.6	7432.7	7628.5	8018.4	7982.2	8082.6	7784.8	5601.7
42.5°	7470.6	7485.4	7519.9	7603.8	7817.7	8052.9	8632.0	8484.0	8605.7	8340.8	6073.8
45°	7352.1	7291.2	7334.0	7653.2	8023.3	8546.5	9193.0	9077.9	9038.4	8816.3	6636.5
47.5°	6786.2	6848.7	6982.0	7375.1	7931.2	8632.0	9591.1	9564.8	9683.3	9527.0	7148.1
50°	6001.5	5976.8	6233.4	6676.0	7393.2	8464.2	9569.8	9808.3	10063.3	9846.1	7376.8
52.5°	4494.5	4626.1	4846.6	5396.0	6419.3	7549.5	9102.5	9500.7	9707.9	9661.9	7192.5
55°	2841.1	2880.6	3013.9	3667.0	4588.3	6059.0	7802.9	8725.8	9096.0	9268.7	7023.1
57.5°	1380.3	1306.2	1469.1	1993.9	2650.3	4075.0	6017.9	7600.5	8405.0	8717.6	6654.6
60°	720.6	748.5	812.7	1000.2	1370.4	2115.6	3750.9	5065.4	6294.3	6774.7	5044.0
62.5°	597.2	607.1	649.8	743.6	911.4	1217.4	1914.9	2469.3	3209.7	3642.3	2869.1
65°	506.7	511.6	557.7	620.2	727.1	857.1	985.4	1031.5	1248.7	1281.6	1020.0
67.5°	422.8	427.7	477.1	536.3	605.4	640.0	672.9	669.6	694.2	684.4	682.7
70°	325.7	330.7	381.7	444.2	478.7	459.0	561.0	584.0	593.9	602.1	615.3
72.5°	235.3	245.1	284.6	329.0	310.9	357.0	462.3	496.8	510.0	514.9	531.4
75°	171.1	174.4	184.3	171.1	197.4	248.4	325.7	368.5	385.0	389.9	414.6
77.5°	75.7	77.3	79.0	98.7	126.7	154.6	194.1	228.7	251.7	258.3	264.9
80°	39.5	41.1	51.0	67.5	90.5	113.5	141.5	161.2	176.0	177.7	184.3
82.5°	24.7	26.3	36.2	47.7	64.2	83.9	103.6	120.1	131.6	133.3	134.9
85°	11.5	14.8	21.4	29.6	42.8	54.3	55.9	47.7	51.0	52.6	49.4
87.5°	3.3	4.9	6.6	4.9	6.6	6.6	8.2	9.9	9.9	9.9	11.5
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°	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8
2.5°	1880.4	1865.6	1808.0	1786.6	1730.7	1740.6	1710.9	1709.3	1702.7	1701.1	1699.4
5°	1926.5	1880.4	1811.3	1758.6	1727.4	1724.1	1702.7	1702.7	1709.3	1714.2	1702.7
7.5°	2002.1	1949.5	1832.7	1783.3	1755.4	1750.4	1735.6	1724.1	1738.9	1734.0	1720.8
10°	2089.3	1997.2	1873.8	1831.0	1785.0	1773.5	1773.5	1778.4	1753.7	1761.9	1748.8
12.5°	2186.4	2063.0	1926.5	1877.1	1822.8	1816.2	1812.9	1776.7	1789.9	1783.3	1750.4
15°	2309.8	2138.7	1993.9	1910.0	1863.9	1834.3	1791.6	1785.0	1776.7	1760.3	1745.5
17.5°	2443.0	2220.9	2025.2	1919.9	1850.8	1829.4	1796.5	1761.9	1737.3	1740.6	1729.0
20°	2556.5	2296.6	2036.7	1929.7	1840.9	1799.8	1748.8	1727.4	1701.1	1699.4	1697.8
22.5°	2691.4	2398.6	2053.1	1903.4	1811.3	1768.5	1734.0	1696.1	1678.0	1655.0	1666.5
25°	2852.7	2438.1	2056.4	1888.6	1789.9	1714.2	1696.1	1655.0	1648.4	1615.5	1622.1
27.5°	2969.5	2459.5	2030.1	1842.6	1740.6	1683.0	1650.1	1620.5	1608.9	1584.3	1577.7
30°	3125.8	2492.4	1974.2	1785.0	1691.2	1627.0	1607.3	1600.7	1567.8	1541.5	1538.2
32.5°	3303.4	2513.8	1938.0	1725.7	1640.2	1590.8	1600.7	1569.5	1528.3	1505.3	1498.7
35°	3444.9	2522.0	1847.5	1658.3	1605.7	1574.4	1562.9	1556.3	1497.1	1475.7	1459.2
37.5°	3660.4	2503.9	1771.8	1610.6	1567.8	1556.3	1546.4	1502.0	1434.6	1403.3	1380.3
40°	3912.1	2499.0	1674.7	1543.1	1531.6	1544.8	1515.2	1446.1	1352.3	1317.8	1301.3
42.5°	4154.0	2533.5	1613.9	1506.9	1492.1	1497.1	1455.9	1352.3	1306.2	1286.5	1260.2
45°	4558.7	2605.9	1513.5	1451.0	1444.4	1441.1	1391.8	1283.2	1256.9	1232.2	1227.3
47.5°	4923.9	2558.2	1449.4	1393.4	1400.0	1381.9	1276.6	1242.1	1212.5	1187.8	1179.6
50°	4945.3	2444.7	1358.9	1349.0	1350.7	1319.4	1219.0	1196.0	1158.2	1141.7	1130.2
52.5°	4833.4	2258.8	1275.0	1278.3	1283.2	1232.2	1148.3	1131.9	1100.6	1077.6	1071.0
55°	4519.2	1969.2	1192.7	1205.9	1219.0	1122.0	1095.7	1054.5	1029.9	997.0	998.6
57.5°	3981.2	1585.9	1077.6	1099.0	1126.9	1020.0	1000.2	949.2	913.1	886.7	883.4
60°	2668.4	1128.6	904.8	913.1	975.6	932.8	931.1	880.1	830.8	807.8	794.6
62.5°	1574.4	862.1	781.4	773.2	771.6	796.2	837.4	819.3	755.1	710.7	723.9
65°	824.2	745.2	727.1	699.2	682.7	676.2	707.4	715.6	672.9	625.2	621.9
67.5°	692.6	692.6	677.8	667.9	644.9	616.9	597.2	570.9	564.3	551.1	534.7
70°	630.1	646.5	641.6	618.6	598.8	567.6	516.6	473.8	432.7	417.9	427.7
72.5°	549.5	565.9	565.9	554.4	528.1	480.4	431.0	381.7	347.1	320.8	317.5
75°	422.8	431.0	450.8	437.6	403.1	373.4	322.4	271.4	238.5	213.9	208.9
77.5°	269.8	283.0	283.0	281.3	256.6	228.7	195.8	159.6	134.9	116.8	111.9
80°	179.3	187.5	194.1	187.5	171.1	149.7	125.0	100.4	82.3	67.5	64.2
82.5°	131.6	141.5	146.4	139.8	123.4	106.9	88.8	70.7	52.6	41.1	37.8
85°	51.0	52.6	59.2	70.7	69.1	67.5	54.3	39.5	29.6	21.4	19.7
87.5°	13.2	11.5	13.2	13.2	11.5	9.9	9.9	9.9	9.9	4.9	6.6
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)