

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: P646860

Luminaire Tested: **GALN-SA3C-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14345.3 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

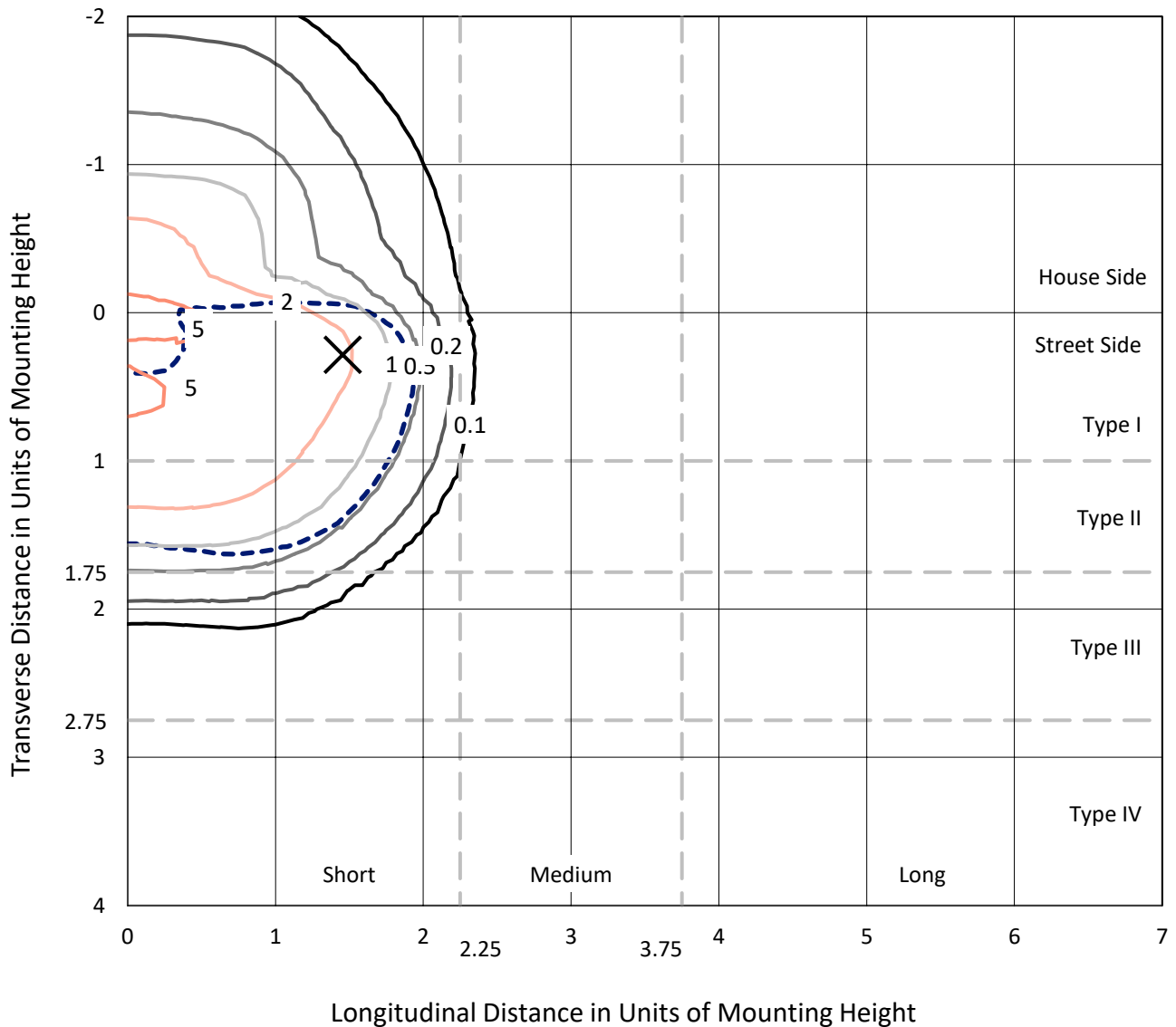
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

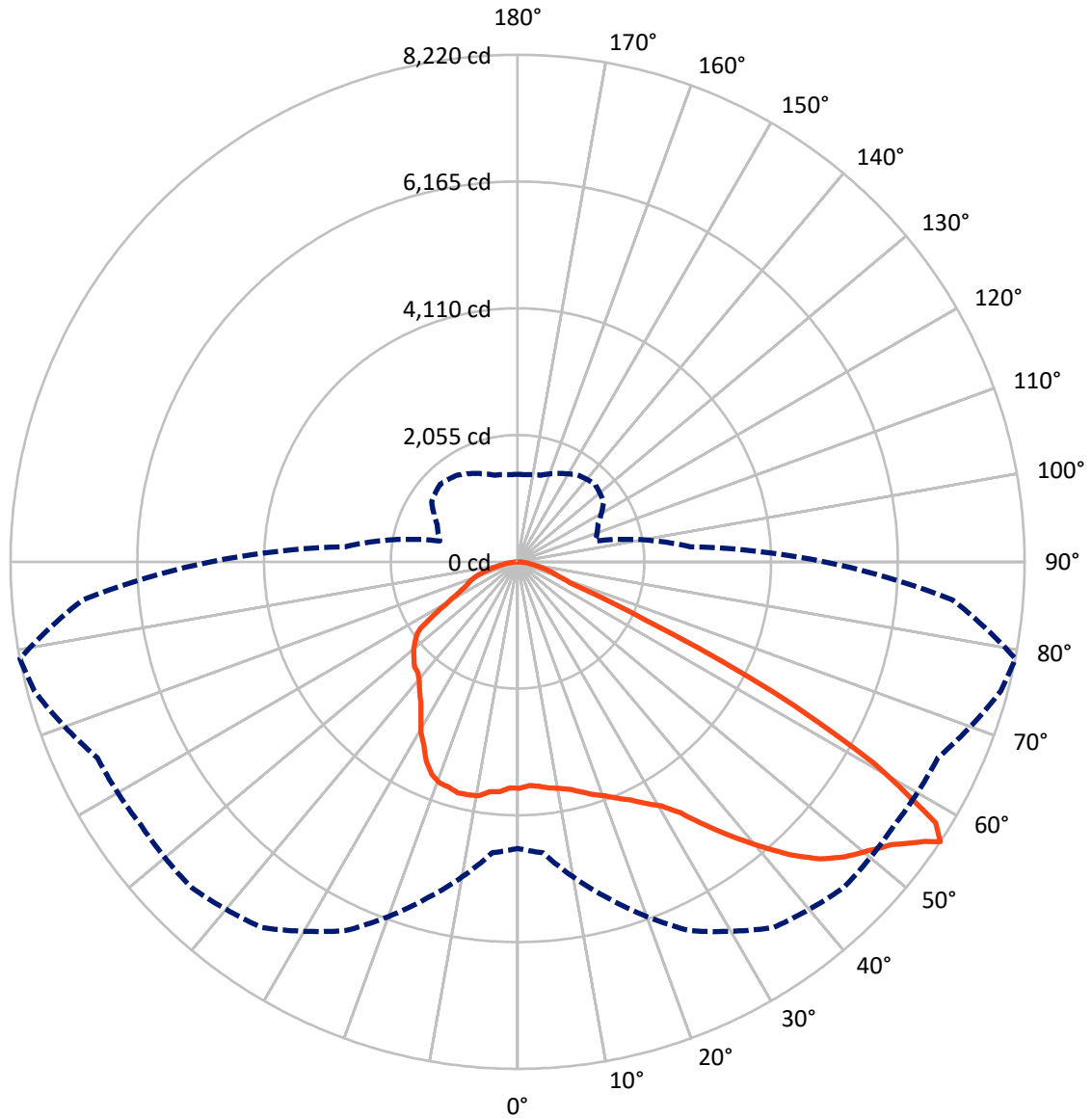
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4236.5	0.0	4236.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	10108.9	0.0	10108.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	14345.3	0.0	14345.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	2.3
10°-20°	913.3	6.4
20°-30°	1562.4	10.9
30°-40°	2394.6	16.7
40°-50°	3236.3	22.6
50°-60°	3717.0	25.9
60°-70°	1694.3	11.8
70°-80°	417.7	2.9
80°-90°	75.9	0.5
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°	14345.3	100.0
0°-180°	14345.3	100.0



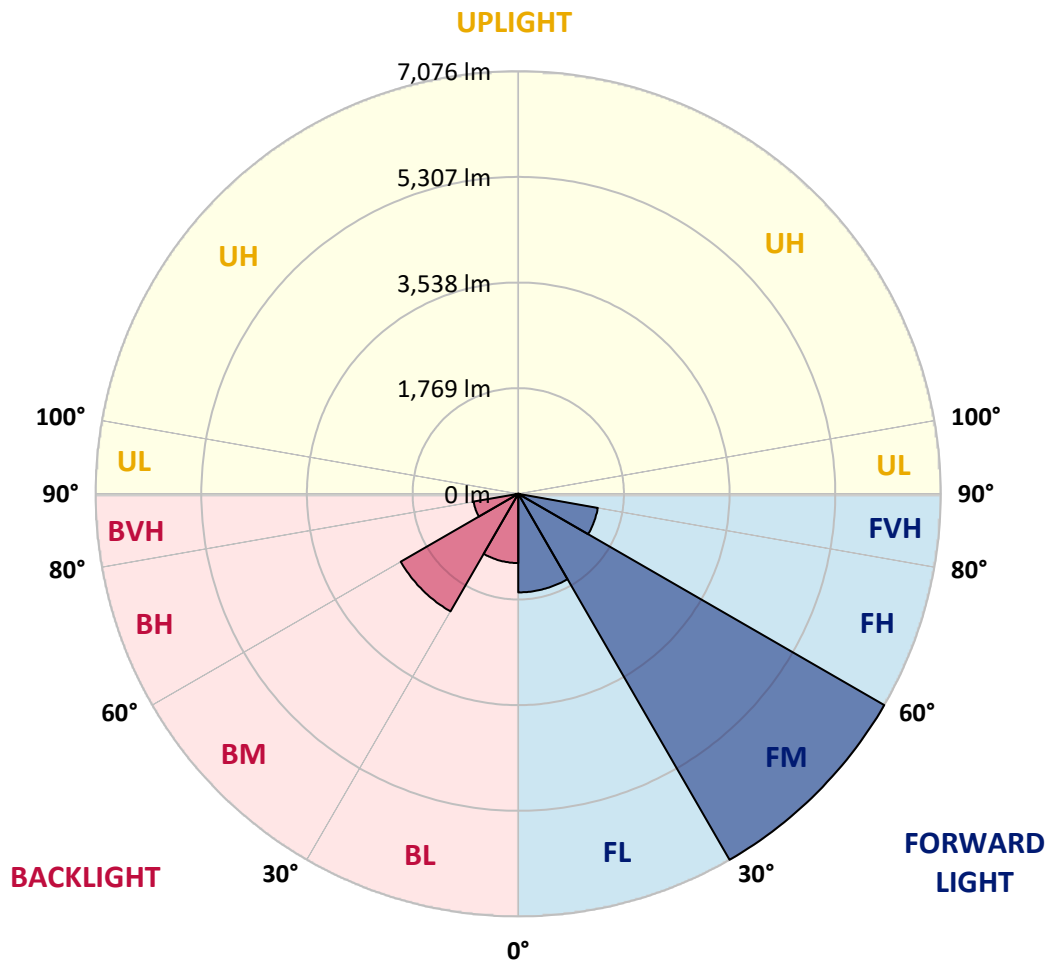
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1650.5	11.5			
FM (30°-60°)	7075.6	49.3			
FH (60°-80°)	1352.4	9.4			G1/1800
FVH (80°-90°)	30.3	0.2			G1/100
BL (0°-30°)	1158.9	8.1	B3/2500		
BM (30°-60°)	2272.4	15.8	B2/2500		
BH (60°-80°)	759.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	45.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4
2.5°	3491.7	3482.8	3504.2	3520.3	3539.9	3565.0	3577.4	3584.7	3647.1	3631.1	3679.3
5°	3416.6	3393.4	3409.5	3422.0	3456.0	3486.4	3520.3	3573.9	3631.1	3656.1	3715.1
7.5°	3350.5	3338.0	3334.5	3343.4	3389.8	3429.1	3488.1	3566.8	3659.7	3700.8	3734.8
10°	3241.5	3223.7	3250.5	3309.4	3322.0	3404.2	3472.1	3584.7	3665.1	3736.6	3836.6
12.5°	3193.3	3175.5	3180.8	3214.8	3302.3	3380.9	3461.3	3588.2	3757.9	3786.6	3920.6
15°	3270.1	3252.3	3257.6	3248.7	3332.7	3373.8	3500.6	3659.7	3822.3	3870.5	4013.5
17.5°	3445.3	3447.0	3423.8	3404.2	3384.5	3472.1	3559.6	3702.6	3847.3	3968.8	4076.1
20°	3779.4	3720.4	3674.0	3563.2	3532.8	3570.3	3681.1	3818.7	3949.1	4049.2	4170.7
22.5°	4036.8	4042.1	3976.0	3793.7	3727.5	3743.7	3838.3	3950.9	4093.9	4165.4	4304.8
25°	4410.2	4372.7	4301.2	4156.5	4008.2	4020.6	4090.3	4192.2	4231.5	4281.5	4433.4
27.5°	4751.5	4762.2	4621.0	4485.3	4301.2	4265.5	4390.5	4408.4	4342.3	4437.0	4488.9
30°	5098.2	5089.3	4996.3	4837.3	4656.8	4663.9	4719.4	4631.8	4540.6	4592.5	4628.2
32.5°	5457.4	5355.5	5352.0	5209.0	5071.4	5005.2	4937.4	4980.3	4839.1	4849.8	4815.8
35°	5745.0	5759.4	5677.1	5575.3	5507.4	5391.3	5205.4	5282.3	5255.4	5242.9	5096.4
37.5°	5954.2	5898.7	5939.8	5905.9	5841.6	5696.8	5503.8	5577.1	5589.6	5650.4	5480.6
40°	6125.6	6102.5	6211.5	6229.3	6184.7	5872.0	5525.2	5743.3	5930.9	6063.2	5861.2
42.5°	6207.9	6257.9	6372.3	6509.9	6409.8	6075.6	5636.0	5870.2	6288.3	6497.3	6222.2
45°	6318.7	6254.4	6424.1	6676.1	6677.8	6247.2	5743.3	6041.7	6567.0	6870.8	6468.8
47.5°	6206.1	6238.2	6413.4	6733.3	6815.5	6427.6	6032.8	6284.7	6874.4	7144.2	6697.5
50°	5954.2	6018.5	6338.3	6670.7	6919.1	6618.9	6365.2	6547.4	7158.6	7364.0	6735.1
52.5°	5691.5	5727.2	6227.5	6718.9	6965.6	6865.5	6810.1	6910.1	7505.2	7612.4	6781.5
55°	4976.7	5146.4	5861.2	6697.5	7192.5	7310.4	7267.6	7414.1	7898.4	8005.5	7035.3
56°	4646.1	4735.4	5641.4	6597.4	7237.2	7473.0	7451.6	7517.7	8107.4	8220.0	7074.6
57.5°	4035.0	4042.1	4810.5	6154.3	7069.2	7521.3	7499.9	7551.6	8066.3	7989.5	6729.7
60°	2524.9	2635.7	3273.7	4733.6	6011.3	6978.1	7099.5	6683.2	6801.1	6638.5	5235.8
62.5°	1308.1	1292.0	1715.5	2768.0	3990.2	4996.3	5108.9	5089.3	4907.0	4669.3	3420.2
65°	652.2	655.8	897.1	1370.6	2044.3	2616.1	2930.6	2964.6	2480.3	2282.0	1622.5
67.5°	473.6	491.4	645.1	838.0	963.2	1077.6	1320.5	1295.6	981.0	932.8	864.9
70°	368.1	384.2	523.6	639.7	580.8	580.8	632.6	654.0	698.7	718.3	741.6
72.5°	268.0	280.5	400.3	441.4	380.6	409.2	473.6	523.6	570.0	577.1	604.0
75°	184.1	194.8	262.7	243.0	228.7	282.3	346.6	393.1	427.0	445.0	461.0
77.5°	119.7	123.3	150.1	126.8	146.5	182.3	225.2	264.5	298.4	312.7	316.3
80°	53.6	59.0	64.4	80.4	101.9	130.4	160.8	193.0	214.5	219.8	230.5
82.5°	30.4	30.4	39.3	57.2	75.1	94.7	116.1	139.4	164.4	169.8	168.0
85°	16.1	16.1	23.3	34.0	46.4	55.4	53.6	55.4	59.0	67.9	66.1
87.5°	5.3	5.3	7.1	7.1	8.9	10.7	8.9	12.5	16.1	16.1	16.1
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°	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4	3670.4
2.5°	3665.1	3681.1	3659.7	3706.2	3706.2	3697.2	3652.5	3666.9	3677.5	3677.5	3686.5
5°	3734.8	3729.4	3743.7	3688.2	3654.3	3641.8	3568.5	3532.8	3502.4	3500.6	3473.9
7.5°	3774.1	3759.7	3754.4	3713.3	3563.2	3472.1	3314.8	3223.7	3204.0	3134.3	3161.1
10°	3836.6	3863.4	3836.6	3613.2	3404.2	3195.1	3041.4	2900.2	2844.8	2800.2	2773.4
12.5°	3965.3	3952.7	3797.3	3495.3	3202.2	2953.9	2725.1	2576.8	2521.4	2482.1	2478.5
15°	4074.3	4011.7	3774.1	3309.4	2887.7	2623.3	2435.6	2330.2	2305.2	2308.8	2324.8
17.5°	4111.8	4068.9	3652.5	3116.4	2653.7	2342.7	2255.1	2239.1	2262.3	2289.1	2296.2
20°	4170.7	4102.8	3602.5	2853.8	2364.1	2167.6	2162.2	2219.4	2262.3	2301.6	2307.0
22.5°	4294.1	4122.5	3439.9	2605.4	2165.8	2115.7	2167.6	2215.8	2282.0	2314.1	2285.5
25°	4329.8	4079.6	3211.2	2307.0	2040.7	2083.6	2139.0	2205.1	2251.6	2269.4	2282.0
27.5°	4360.1	4013.5	2902.0	2108.6	2001.4	2081.8	2139.0	2194.4	2219.4	2235.5	2249.8
30°	4446.0	3993.8	2633.9	1976.4	1976.4	2046.1	2119.3	2133.6	2167.6	2187.2	2212.3
32.5°	4488.9	3858.0	2358.8	1892.4	1951.4	2063.9	2069.3	2096.1	2097.9	2113.9	2087.2
35°	4601.4	3761.5	2103.2	1831.6	1962.0	2046.1	2072.8	2056.8	1969.2	1926.3	1935.3
37.5°	4683.6	3713.3	1919.2	1824.5	1963.8	2065.7	2080.0	1958.5	1867.4	1795.9	1813.7
40°	4905.2	3593.6	1779.8	1811.9	1980.0	2087.2	2047.9	1915.6	1751.2	1678.0	1665.4
42.5°	5074.9	3507.8	1692.2	1797.7	1992.4	2117.5	2031.8	1829.9	1661.8	1594.0	1611.8
45°	5271.5	3488.1	1645.8	1801.2	2013.9	2133.6	2012.1	1763.7	1585.0	1558.2	1552.8
47.5°	5341.2	3346.9	1595.8	1770.9	2008.6	2128.3	1946.0	1713.7	1556.4	1560.0	1574.3
50°	5225.0	3202.2	1558.2	1708.3	1972.8	2080.0	1842.3	1647.6	1540.3	1585.0	1610.1
52.5°	5076.7	3053.9	1481.4	1624.3	1899.6	2004.9	1794.1	1644.0	1524.3	1510.0	1515.3
55°	5121.4	2932.4	1374.2	1510.0	1781.6	1865.6	1740.5	1610.1	1485.0	1431.3	1449.3
56°	4976.7	2807.3	1304.5	1438.5	1701.1	1776.2	1713.7	1579.7	1452.8	1417.1	1417.1
57.5°	4567.5	2387.4	1213.3	1324.1	1531.4	1620.7	1661.8	1561.8	1417.1	1354.5	1356.3
60°	3368.4	1697.6	1088.3	1166.9	1268.8	1340.2	1531.4	1511.7	1327.7	1284.8	1268.8
62.5°	2076.4	1240.1	998.9	1029.3	1081.1	1140.0	1336.7	1368.8	1233.0	1186.6	1175.8
65°	1163.3	948.8	931.0	943.5	968.5	998.9	1109.7	1181.2	1088.3	1016.8	1013.2
67.5°	850.6	848.8	863.1	873.8	884.6	884.6	911.3	939.9	927.5	870.2	864.9
70°	755.9	761.2	772.0	773.8	777.4	764.8	743.4	734.5	748.7	713.0	705.9
72.5°	623.7	641.5	654.0	655.8	636.2	620.1	591.5	561.1	550.4	543.2	541.4
75°	478.9	491.4	496.7	495.0	487.8	464.6	430.6	400.3	380.6	359.2	369.9
77.5°	323.5	341.3	350.2	350.2	339.5	303.8	287.7	264.5	244.8	221.6	225.2
80°	226.9	239.4	253.8	252.0	234.1	216.2	193.0	171.6	155.5	137.6	135.8
82.5°	169.8	176.9	184.1	180.5	168.0	150.1	134.0	114.4	96.5	84.0	84.0
85°	60.8	66.1	80.4	84.0	91.1	91.1	76.8	64.4	51.8	42.9	42.9
87.5°	17.9	17.9	19.7	19.7	17.9	19.7	16.1	17.9	19.7	12.5	12.5
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)