

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: P532635

Luminaire Tested: **GALN-SA8A-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22242 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

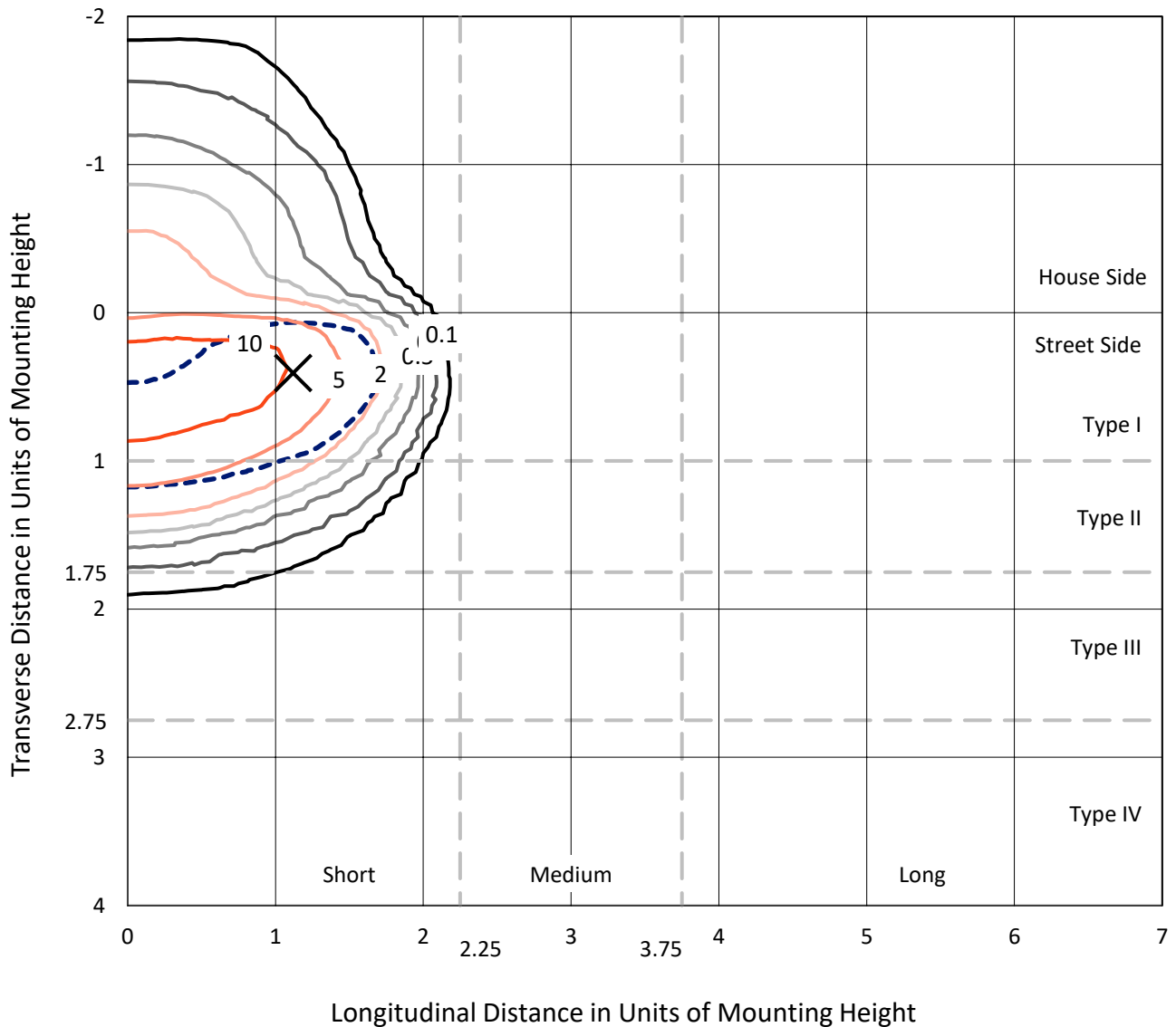
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

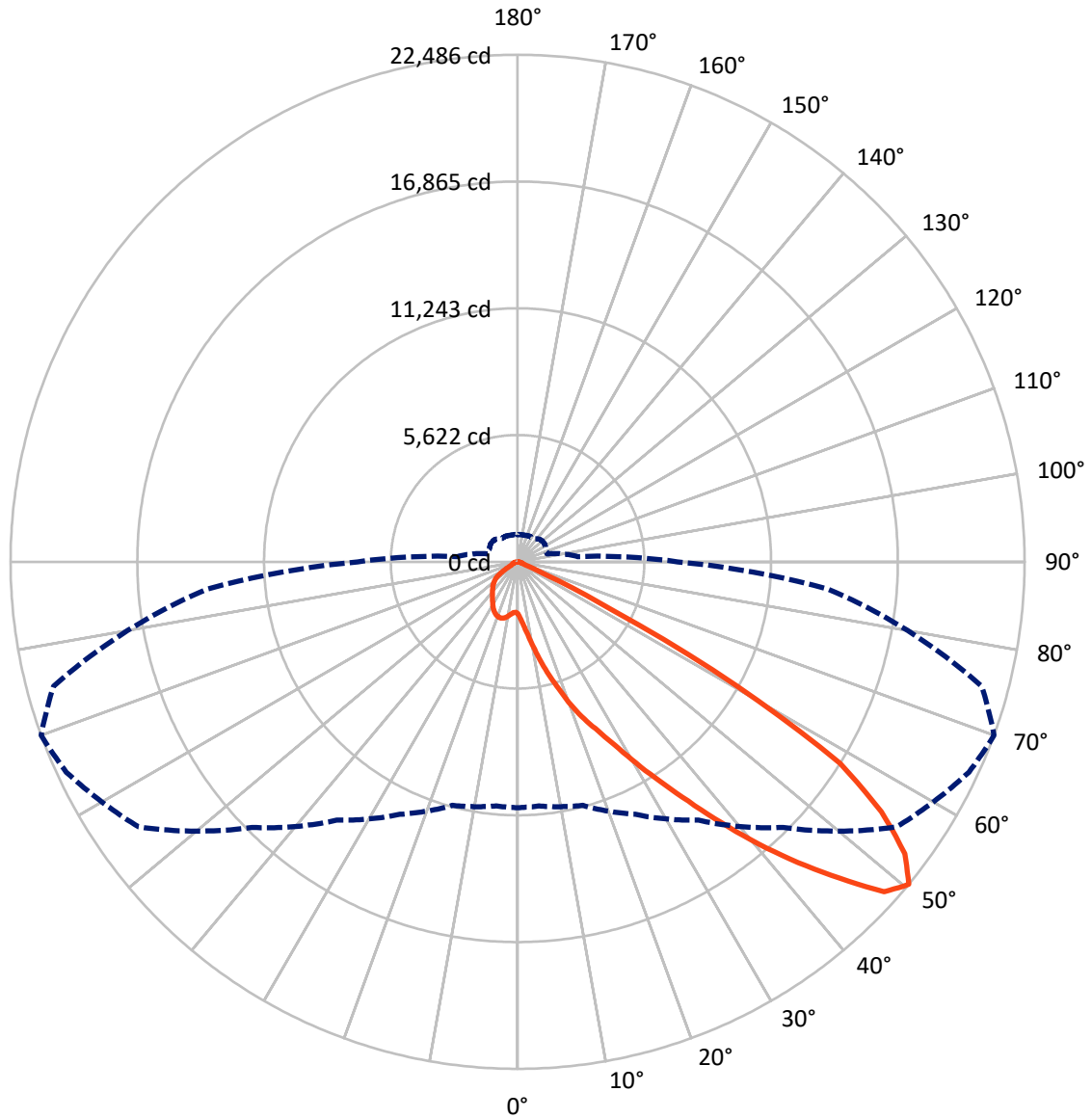
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3106.3	0.0	3106.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19135.7	0.0	19135.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	22242.0	0.0	22242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.6	1.3
10°-20°	1295.9	5.8
20°-30°	2718.6	12.2
30°-40°	4685.9	21.1
40°-50°	6848.4	30.8
50°-60°	5333.7	24.0
60°-70°	903.7	4.1
70°-80°	124.1	0.6
80°-90°	32.2	0.1
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°	22242.0	100.0
0°-180°	22242.0	100.0

Coefficient of Utilization



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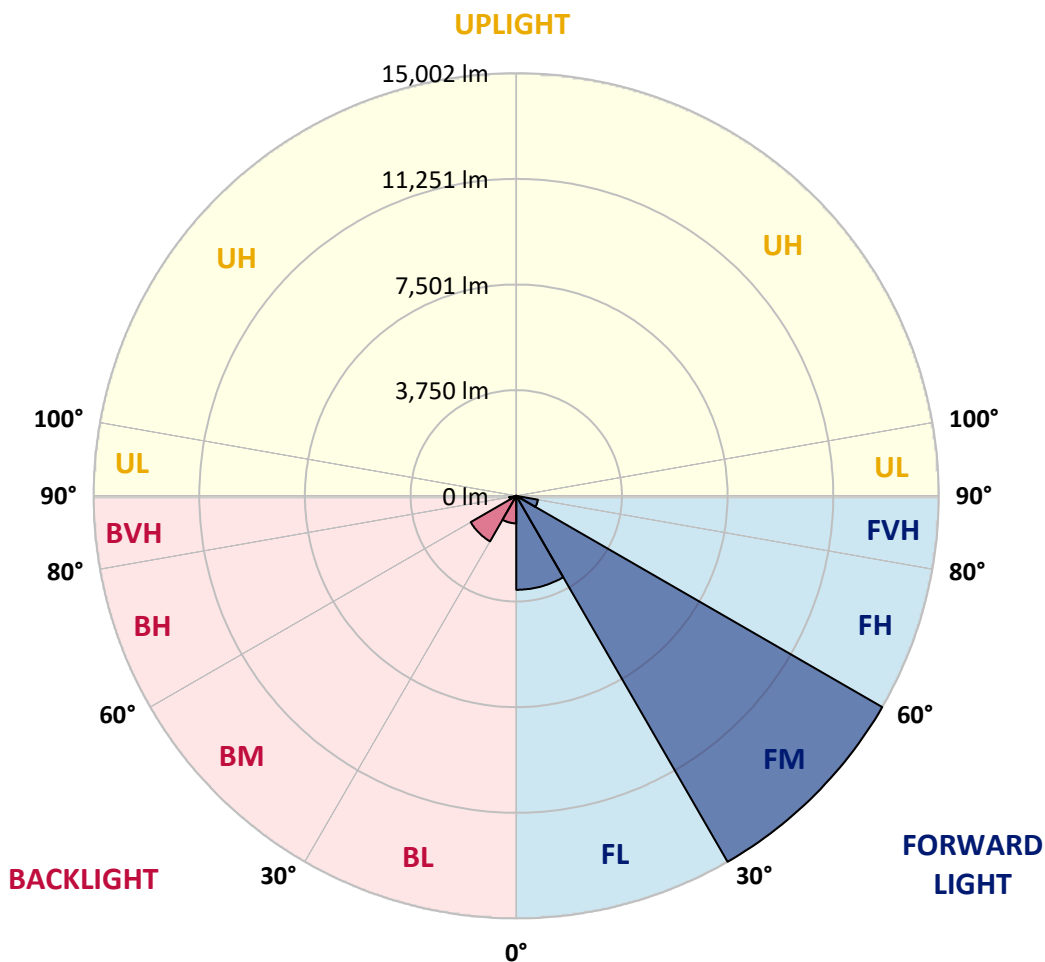
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3336.6	15.0			
FM (30°-60°)	15001.8	67.4			
FH (60°-80°)	782.5	3.5			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	977.5	4.4	B2/1000		
BM (30°-60°)	1866.1	8.4	B2/2500		
BH (60°-80°)	245.4	1.1	B1/500		G1/500
BVH (80°-90°)	17.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8
2.5°	3016.9	2995.0	2947.4	2859.7	2823.1	2735.3	2684.1	2585.4	2523.2	2453.8	2377.0
5°	4249.3	4135.9	4066.4	3967.7	3678.8	3499.6	3203.4	2951.1	2834.1	2706.1	2530.6
7.5°	5521.9	5448.7	5353.7	5141.6	4944.1	4571.1	4062.8	3506.9	3269.2	3049.8	2702.4
10°	6575.1	6370.3	6359.3	6202.1	5986.3	5540.2	4929.5	4238.3	3814.1	3492.3	2947.4
12.5°	7310.1	7123.6	7207.7	7189.4	6988.3	6578.7	5872.9	4958.7	4516.2	4015.3	3199.8
15°	7979.3	7902.5	7876.9	7855.0	7774.5	7471.0	6838.4	5836.4	5196.4	4593.0	3485.0
17.5°	8633.9	8436.4	8531.5	8549.8	8542.5	8268.2	7675.8	6670.1	5916.8	5203.7	3784.9
20°	9215.3	9233.6	9105.6	9080.0	9058.1	9047.1	8469.3	7496.6	6801.8	5843.7	4176.2
22.5°	9961.3	9833.3	9946.7	9873.6	9731.0	9643.2	9200.7	8228.0	7569.7	6615.3	4574.8
25°	10842.6	10945.0	10678.1	10648.8	10491.6	10188.1	9789.5	9047.1	8308.4	7332.0	5006.3
27.5°	11928.7	11749.5	11680.1	11519.2	11233.9	11105.9	10637.9	9891.9	9200.7	8085.4	5423.2
30°	12861.2	12813.7	12466.3	12276.1	12027.5	12023.8	11369.2	11036.5	10363.6	9266.5	5997.3
32.5°	13621.9	13413.4	13285.4	13153.8	12952.7	13007.5	12455.3	12279.8	11603.3	10363.6	6673.8
35°	14130.2	13980.2	13903.5	13702.3	13643.8	13888.8	13658.4	13585.3	13029.5	11906.8	7467.3
37.5°	14291.1	14338.6	14324.0	14071.7	14196.0	14857.9	15154.1	14963.9	14671.4	13534.1	8326.7
40°	14433.7	14466.6	14393.5	14689.7	15044.4	15797.7	16869.2	16554.7	16445.0	15183.4	9522.5
42.5°	14514.1	14488.6	14488.6	15000.5	15538.1	17052.0	18525.7	18317.3	18233.2	16938.7	10904.8
45°	14166.7	13918.1	14185.0	14879.8	15962.3	17670.0	19849.5	20138.4	20017.8	19026.7	12521.2
47.5°	12868.6	13022.1	13172.1	14100.9	15446.7	17479.9	20661.4	21645.1	21868.1	20782.0	13581.6
50°	10904.8	10871.9	11182.7	12352.9	13987.6	16660.7	20504.1	22080.2	22486.1	21308.6	13804.7
52.5°	7931.8	8173.1	8509.6	9672.4	11610.6	14539.7	18474.5	20957.6	21498.8	20661.4	13658.4
55°	4618.6	4351.7	5108.7	6092.4	7920.8	10967.0	15618.5	18576.9	19578.9	19483.8	12919.8
57.5°	1850.4	1791.9	2051.5	2764.6	4132.3	6798.1	11358.3	15263.8	16869.2	17845.6	11354.6
60°	811.8	793.5	932.5	1126.3	1689.5	3133.9	6213.0	9493.3	11168.1	12470.0	7814.7
62.5°	585.1	577.8	647.3	716.7	892.3	1364.0	2611.0	3825.1	4768.6	5759.6	3499.6
65°	471.7	490.0	537.6	574.1	658.2	757.0	921.5	1064.2	1305.5	1353.0	771.6
67.5°	384.0	398.6	442.5	482.7	497.3	409.6	424.2	373.0	373.0	332.8	267.0
70°	281.6	285.2	336.4	384.0	307.2	164.6	288.9	288.9	259.6	248.7	226.7
72.5°	208.4	212.1	252.3	237.7	120.7	102.4	212.1	234.0	212.1	201.1	182.8
75°	153.6	157.2	131.6	54.9	51.2	65.8	124.3	160.9	153.6	149.9	139.0
77.5°	29.3	21.9	18.3	25.6	36.6	54.9	80.5	98.7	102.4	109.7	102.4
80°	3.7	3.7	11.0	21.9	40.2	58.5	84.1	95.1	98.7	102.4	95.1
82.5°	0.0	3.7	11.0	21.9	40.2	54.9	73.1	84.1	91.4	95.1	91.4
85°	0.0	3.7	7.3	18.3	32.9	40.2	36.6	25.6	21.9	25.6	18.3
87.5°	0.0	0.0	3.7	3.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3
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°	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8	2303.8
2.5°	2333.1	2318.5	2267.3	2212.4	2164.9	2186.8	2164.9	2146.6	2153.9	2146.6	2139.3
5°	2461.1	2395.3	2285.5	2238.0	2197.8	2194.1	2183.2	2179.5	2183.2	2183.2	2150.2
7.5°	2581.8	2475.7	2358.7	2307.5	2260.0	2263.6	2238.0	2238.0	2234.4	2216.1	2208.8
10°	2764.6	2622.0	2472.0	2380.6	2322.1	2311.1	2285.5	2260.0	2260.0	2260.0	2223.4
12.5°	2965.7	2786.5	2581.8	2475.7	2406.2	2351.4	2311.1	2303.8	2263.6	2256.3	2238.0
15°	3141.3	2914.5	2654.9	2508.6	2420.9	2347.7	2285.5	2245.3	2227.0	2216.1	2201.4
17.5°	3313.1	3024.2	2695.1	2508.6	2413.5	2329.4	2263.6	2227.0	2183.2	2190.5	2161.2
20°	3543.5	3141.3	2706.1	2461.1	2344.1	2263.6	2175.8	2157.6	2132.0	2110.0	2117.3
22.5°	3766.6	3225.4	2673.2	2402.6	2234.4	2139.3	2095.4	2073.4	2062.5	2044.2	2018.6
25°	3967.7	3316.8	2622.0	2296.5	2117.3	2047.9	2007.6	2004.0	1978.4	1978.4	1930.8
27.5°	4172.5	3349.7	2534.2	2172.2	2014.9	1974.7	1956.4	1949.1	1938.1	1912.5	1879.6
30°	4406.5	3360.7	2406.2	2044.2	1923.5	1879.6	1905.2	1923.5	1876.0	1828.4	1843.1
32.5°	4600.4	3335.1	2252.6	1923.5	1857.7	1835.8	1886.9	1905.2	1850.4	1799.2	1773.6
35°	4834.4	3272.9	2102.7	1828.4	1791.9	1835.8	1879.6	1879.6	1769.9	1707.8	1693.1
37.5°	5189.1	3203.4	1963.7	1748.0	1722.4	1813.8	1872.3	1832.1	1660.2	1583.4	1565.1
40°	5569.4	3159.5	1828.4	1667.5	1685.8	1777.2	1810.2	1685.8	1510.3	1462.8	1448.1
42.5°	6121.6	3071.8	1707.8	1598.1	1652.9	1726.0	1726.0	1503.0	1437.2	1411.6	1407.9
45°	6809.1	3009.6	1601.7	1539.5	1605.4	1623.7	1565.1	1407.9	1360.4	1353.0	1356.7
47.5°	7145.5	2888.9	1492.0	1470.1	1517.6	1521.3	1367.7	1331.1	1290.9	1279.9	1272.6
50°	7094.3	2673.2	1349.4	1378.6	1444.5	1407.9	1247.0	1254.3	1217.7	1214.1	1195.8
52.5°	6736.0	2333.1	1206.8	1276.3	1349.4	1243.3	1148.3	1140.9	1140.9	1093.4	1075.1
55°	5971.7	1879.6	1034.9	1122.7	1210.4	1045.9	1020.3	1013.0	994.7	950.8	939.8
57.5°	4728.3	1378.6	778.9	874.0	1027.6	888.6	885.0	852.1	804.5	771.6	771.6
60°	2812.1	793.5	490.0	533.9	680.2	720.4	800.9	786.2	705.8	654.6	640.0
62.5°	1283.6	409.6	310.8	318.1	365.7	468.1	629.0	727.7	614.4	526.6	519.3
65°	431.5	303.5	256.0	245.0	252.3	281.6	376.7	515.6	490.0	405.9	391.3
67.5°	263.3	270.6	241.4	223.1	223.1	219.4	215.8	234.0	288.9	281.6	285.2
70°	226.7	248.7	223.1	201.1	193.8	182.8	153.6	128.0	109.7	128.0	135.3
72.5°	182.8	197.5	190.2	171.9	153.6	139.0	109.7	84.1	62.2	54.9	54.9
75°	135.3	146.3	153.6	131.6	117.0	98.7	80.5	54.9	32.9	21.9	21.9
77.5°	98.7	109.7	113.4	102.4	87.8	69.5	51.2	36.6	18.3	7.3	7.3
80°	84.1	98.7	109.7	102.4	91.4	65.8	47.5	25.6	14.6	3.7	3.7
82.5°	80.5	98.7	109.7	98.7	87.8	62.2	47.5	29.3	11.0	3.7	3.7
85°	18.3	25.6	32.9	40.2	47.5	47.5	36.6	21.9	11.0	3.7	3.7
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	3.7	3.7	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)