

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: P456041

Luminaire Tested: **GALN-SA7B-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35793 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

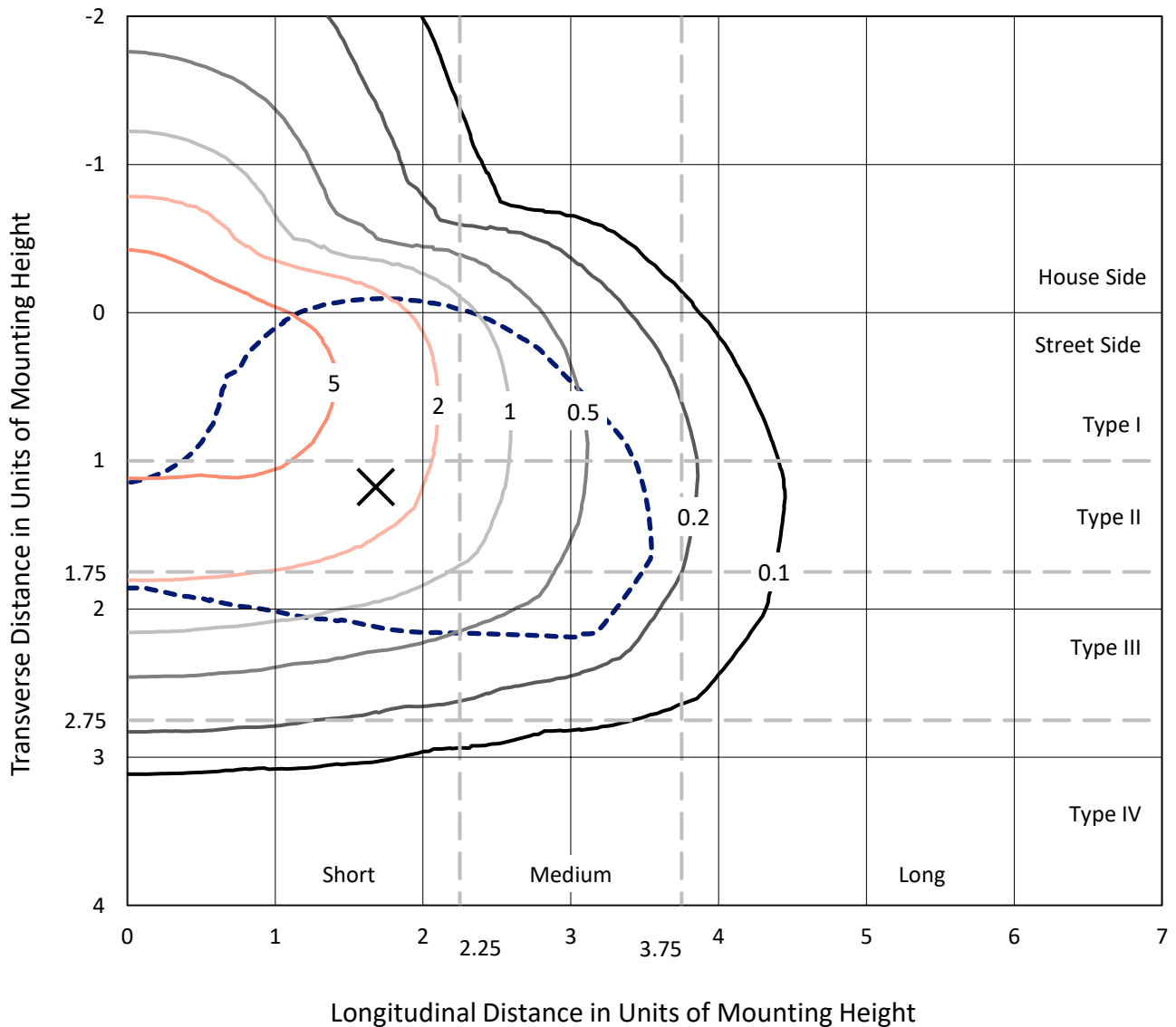
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

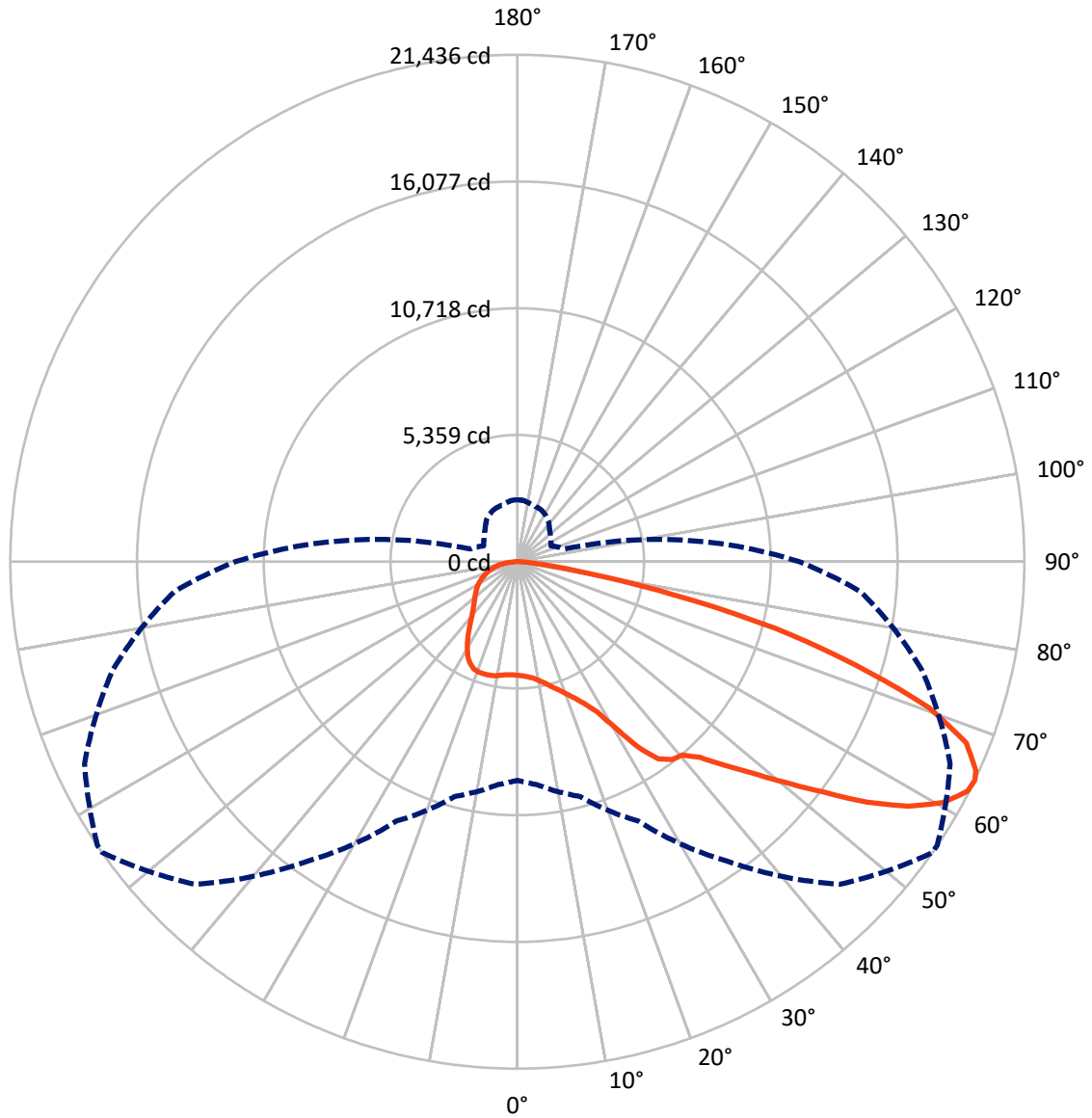
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8694.8	0.0	8694.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	27098.2	0.0	27098.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	35793.0	0.0	35793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.1	1.3
10°-20°	1474.0	4.1
20°-30°	2624.1	7.3
30°-40°	4037.4	11.3
40°-50°	5723.3	16.0
50°-60°	8284.4	23.1
60°-70°	8573.4	24.0
70°-80°	4015.0	11.2
80°-90°	594.4	1.7
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°	35793.0	100.0
0°-180°	35793.0	100.0

Coefficient of Utilization



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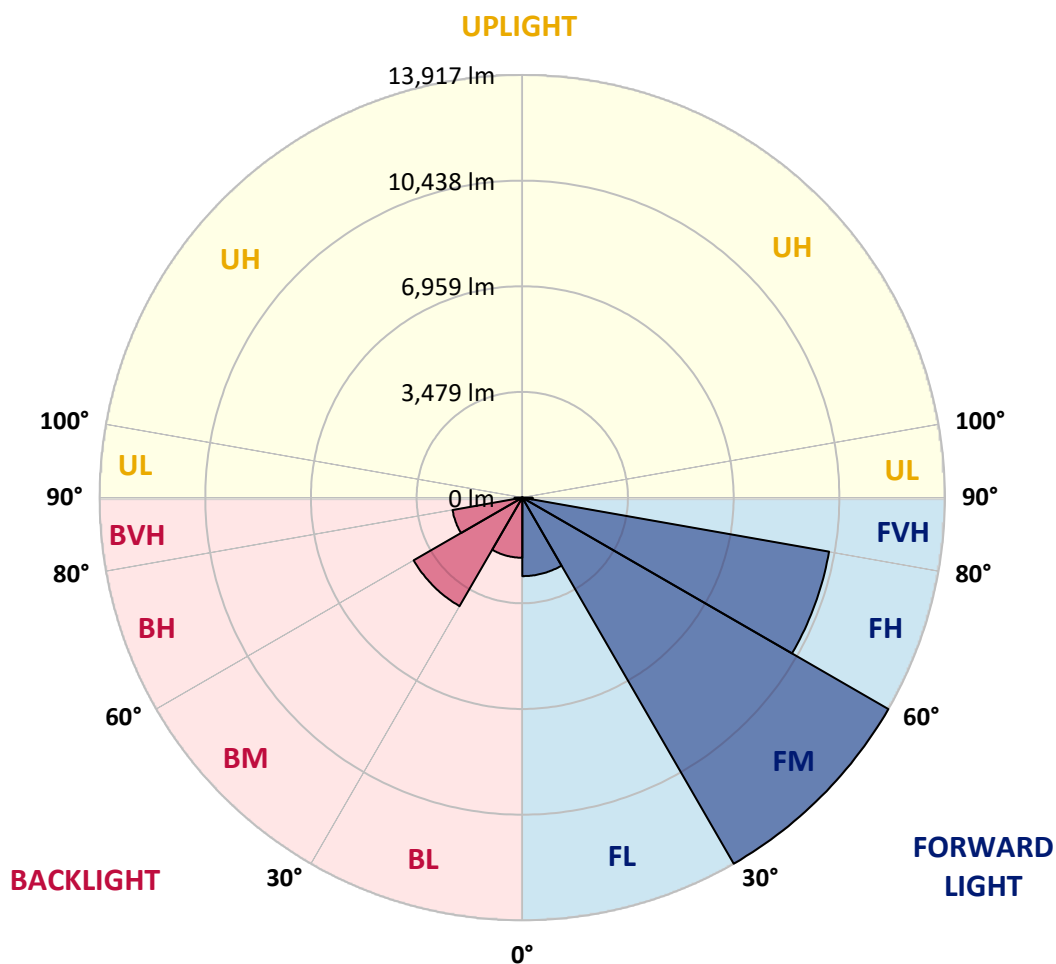
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2584.8	7.2			
FM	(30°-60°)	13917.3	38.9			
FH	(60°-80°)	10255.7	28.7			G4/12000
FVH	(80°-90°)	340.3	1.0			G3/500
BL	(0°-30°)	1980.3	5.5	B3/2500		
BM	(30°-60°)	4127.8	11.5	B3/5000		
BH	(60°-80°)	2332.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	254.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3
2.5°	4856.2	4854.2	4860.2	4854.2	4858.2	4844.2	4838.3	4842.2	4836.3	4826.3	4808.3
5°	4916.1	4914.1	4916.1	4908.1	4912.1	4904.1	4890.1	4894.1	4884.1	4862.2	4836.3
7.5°	5017.8	5009.8	5009.8	5007.8	4999.9	4987.9	4977.9	4973.9	4963.9	4936.0	4896.1
10°	5149.5	5149.5	5151.5	5135.5	5145.5	5123.6	5113.6	5111.6	5077.7	5041.8	4985.9
12.5°	5323.1	5333.1	5327.1	5319.1	5315.1	5307.1	5273.2	5281.2	5243.3	5181.4	5113.6
15°	5538.6	5554.5	5544.5	5540.5	5530.6	5500.6	5486.7	5480.7	5430.8	5341.0	5251.3
17.5°	5823.9	5803.9	5795.9	5786.0	5744.1	5722.1	5698.2	5694.2	5650.3	5544.5	5404.9
20°	6073.3	6101.2	6085.2	6075.2	6033.4	5991.5	5973.5	5967.5	5929.6	5813.9	5590.4
22.5°	6370.5	6376.5	6382.5	6358.6	6338.6	6306.7	6274.8	6264.8	6250.8	6131.1	5857.8
25°	6687.8	6711.7	6691.8	6667.8	6643.9	6641.9	6671.8	6667.8	6661.8	6546.1	6212.9
27.5°	7204.5	7226.5	7232.4	7206.5	7114.7	7122.7	7190.5	7212.5	7304.3	7112.7	6669.8
30°	7495.8	7517.7	7567.6	7665.4	7811.0	7938.7	8102.3	8152.2	8240.0	7878.9	7212.5
32.5°	7675.4	7683.3	7773.1	7954.7	8391.6	8868.5	9313.4	9331.3	9387.2	8880.4	7709.3
35°	7958.7	7964.7	8036.5	8236.0	8748.8	9542.8	10231.2	10253.1	10207.2	9191.7	7940.7
37.5°	8307.8	8323.8	8369.7	8535.3	9147.8	10107.5	10612.2	10596.3	10189.3	9439.1	8349.7
40°	8816.6	8816.6	8762.7	8986.2	9568.8	10430.7	10745.9	10718.0	10610.2	10155.3	8972.2
42.5°	9265.5	9257.5	9385.2	9536.8	10095.5	10929.5	11306.5	11352.4	11530.0	11055.2	9680.5
45°	9850.1	9886.0	9957.8	10233.2	10991.3	11781.4	12268.2	12312.1	12563.5	12114.6	10508.5
47.5°	10440.7	10452.6	10678.1	11045.2	12100.6	12936.6	13335.6	13407.4	13636.9	13353.6	11400.3
50°	10859.6	10973.4	11334.5	11913.1	13243.8	14345.2	14656.4	14742.2	15147.2	14702.3	12439.8
52.5°	11302.6	11414.3	11855.2	12737.1	14556.7	15785.7	16168.7	16226.6	16647.6	16067.0	13503.2
55°	11681.6	11785.4	12286.2	13467.3	15602.1	17256.1	17950.4	17882.6	18084.1	17118.4	14323.2
57.5°	11743.5	11827.3	12457.8	13934.2	16388.2	18517.0	19512.6	19552.5	19319.1	17904.5	14999.6
60°	11264.7	11436.2	12160.5	13884.3	16741.4	19394.9	20677.8	20705.7	20043.3	18307.6	15268.9
62.5°	10416.7	10398.8	11274.6	13082.2	16246.6	19594.4	21364.1	21334.2	20326.6	18114.0	15007.6
64°	9245.6	9461.0	10279.0	12096.6	15448.5	19287.2	21436.0	21420.0	20191.0	17711.0	14562.6
65°	8531.3	8519.3	9327.4	11290.6	14654.4	18824.3	21308.3	21286.3	19907.7	17349.9	14217.5
67.5°	6159.0	6187.0	6985.0	8712.8	11913.1	17014.7	20476.3	20394.5	18790.4	16152.8	12904.7
70°	3730.9	3746.9	4373.4	5780.0	8551.2	13754.6	18457.2	18461.2	17080.5	14365.1	10983.3
72.5°	1965.2	2007.1	2258.5	3282.0	5193.4	9650.6	14973.6	15328.8	14664.4	12260.2	8676.9
75°	1093.3	1099.3	1276.9	1618.1	2649.6	5400.9	11254.7	11356.4	11609.8	9868.0	6416.4
77.5°	834.0	845.9	901.8	1045.5	1442.5	2503.9	6811.5	7322.2	8182.1	6957.1	3661.1
80°	676.4	688.3	736.2	822.0	959.7	1187.1	3164.3	3439.6	4379.4	3088.5	1428.5
82.5°	526.7	518.7	580.6	636.5	698.3	702.3	1298.8	1436.5	1783.7	1328.8	618.5
85°	391.1	391.1	440.9	429.0	450.9	411.0	572.6	632.5	714.3	564.6	287.3
87.5°	155.6	171.6	289.3	259.4	201.5	161.6	211.5	223.5	247.4	221.5	119.7
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°	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3	4802.3
2.5°	4810.3	4816.3	4802.3	4792.4	4788.4	4782.4	4776.4	4778.4	4786.4	4794.4	4792.4
5°	4834.3	4836.3	4812.3	4800.3	4792.4	4784.4	4784.4	4790.4	4806.3	4818.3	4818.3
7.5°	4894.1	4894.1	4860.2	4838.3	4826.3	4812.3	4808.3	4810.3	4822.3	4838.3	4840.2
10°	4987.9	4979.9	4936.0	4902.1	4880.2	4846.2	4816.3	4800.3	4806.3	4816.3	4816.3
12.5°	5101.6	5079.7	5023.8	4977.9	4924.0	4860.2	4798.3	4766.4	4764.4	4774.4	4770.4
15°	5223.3	5199.4	5121.6	5037.8	4944.0	4850.2	4776.4	4730.5	4694.6	4684.6	4706.6
17.5°	5365.0	5315.1	5207.4	5091.6	4952.0	4830.3	4714.6	4620.8	4556.9	4539.0	4545.0
20°	5536.6	5470.7	5325.1	5143.5	4946.0	4758.4	4578.9	4453.2	4349.4	4317.5	4321.5
22.5°	5774.0	5660.3	5446.8	5169.4	4896.1	4622.8	4373.4	4209.8	4084.1	4034.2	4064.1
25°	6043.3	5919.6	5562.5	5163.5	4766.4	4405.3	4130.0	3916.5	3802.8	3728.9	3744.9
27.5°	6414.4	6195.0	5686.2	5109.6	4580.9	4139.9	3820.7	3619.2	3515.5	3477.6	3495.5
30°	6889.3	6552.1	5819.9	4963.9	4287.6	3804.8	3509.5	3377.8	3315.9	3268.1	3284.0
32.5°	7232.4	6803.5	5849.8	4718.5	3970.4	3499.5	3298.0	3200.2	3132.4	3086.5	3096.5
35°	7477.8	7017.0	5835.8	4417.3	3639.2	3248.1	3130.4	3050.6	2940.9	2841.1	2823.1
37.5°	7807.0	7284.3	5734.1	4088.1	3312.0	3078.5	2994.7	2847.1	2689.5	2555.8	2549.8
40°	8311.8	7597.6	5516.6	3701.0	3032.6	2952.8	2851.1	2659.5	2490.0	2382.2	2374.2
42.5°	8832.6	7886.9	5221.3	3294.0	2803.2	2821.2	2697.5	2507.9	2404.2	2334.3	2326.4
45°	9469.0	8200.1	4902.1	2940.9	2633.6	2697.5	2563.8	2454.0	2392.2	2346.3	2334.3
47.5°	10157.3	8521.3	4543.0	2623.6	2490.0	2583.7	2507.9	2458.0	2424.1	2392.2	2378.2
50°	10899.5	8880.4	4205.8	2368.3	2360.3	2466.0	2501.9	2484.0	2464.0	2454.0	2442.1
52.5°	11713.6	9247.5	3922.5	2188.7	2246.5	2382.2	2503.9	2517.9	2517.9	2511.9	2503.9
55°	12264.2	9502.9	3635.2	2043.0	2130.8	2314.4	2499.9	2553.8	2573.8	2565.8	2557.8
57.5°	12671.2	9642.6	3274.1	1917.3	2033.1	2248.5	2478.0	2557.8	2577.7	2587.7	2583.7
60°	12755.0	9512.9	2801.2	1785.7	1927.3	2152.8	2398.2	2497.9	2523.9	2585.7	2591.7
62.5°	12377.9	9113.9	2330.3	1656.0	1797.6	2007.1	2290.4	2430.1	2482.0	2577.7	2587.7
64°	11915.1	8667.0	2069.0	1574.2	1713.8	1925.3	2236.6	2412.1	2480.0	2607.7	2615.6
65°	11575.9	8341.7	1905.4	1522.3	1660.0	1871.5	2206.6	2418.1	2497.9	2653.6	2665.5
67.5°	10326.9	7222.5	1576.2	1400.6	1532.3	1779.7	2212.6	2468.0	2493.9	2671.5	2669.5
70°	8545.3	5750.0	1320.8	1288.9	1408.6	1705.9	2188.7	2388.2	2390.2	2507.9	2480.0
72.5°	6398.5	4249.7	1145.2	1173.2	1270.9	1530.3	2067.0	2280.5	2246.5	2262.5	2234.6
75°	4395.3	2811.2	985.6	1049.5	1127.3	1352.7	1895.4	2071.0	2017.1	1997.2	1977.2
77.5°	2346.3	1554.2	820.0	927.7	979.6	1169.2	1654.0	1823.6	1767.7	1689.9	1664.0
80°	949.7	732.2	660.4	768.1	798.1	941.7	1376.7	1482.4	1440.5	1304.8	1260.9
82.5°	476.8	438.9	518.7	604.5	606.5	672.4	1023.5	1123.3	1029.5	863.9	826.0
85°	249.4	257.4	357.1	425.0	375.1	363.1	614.5	680.3	624.5	542.7	488.8
87.5°	89.8	103.7	187.5	185.5	131.7	69.8	135.7	65.8	35.9	21.9	27.9
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)