

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: P532166

Luminaire Tested: **GALN-SA7C-730-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37407 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

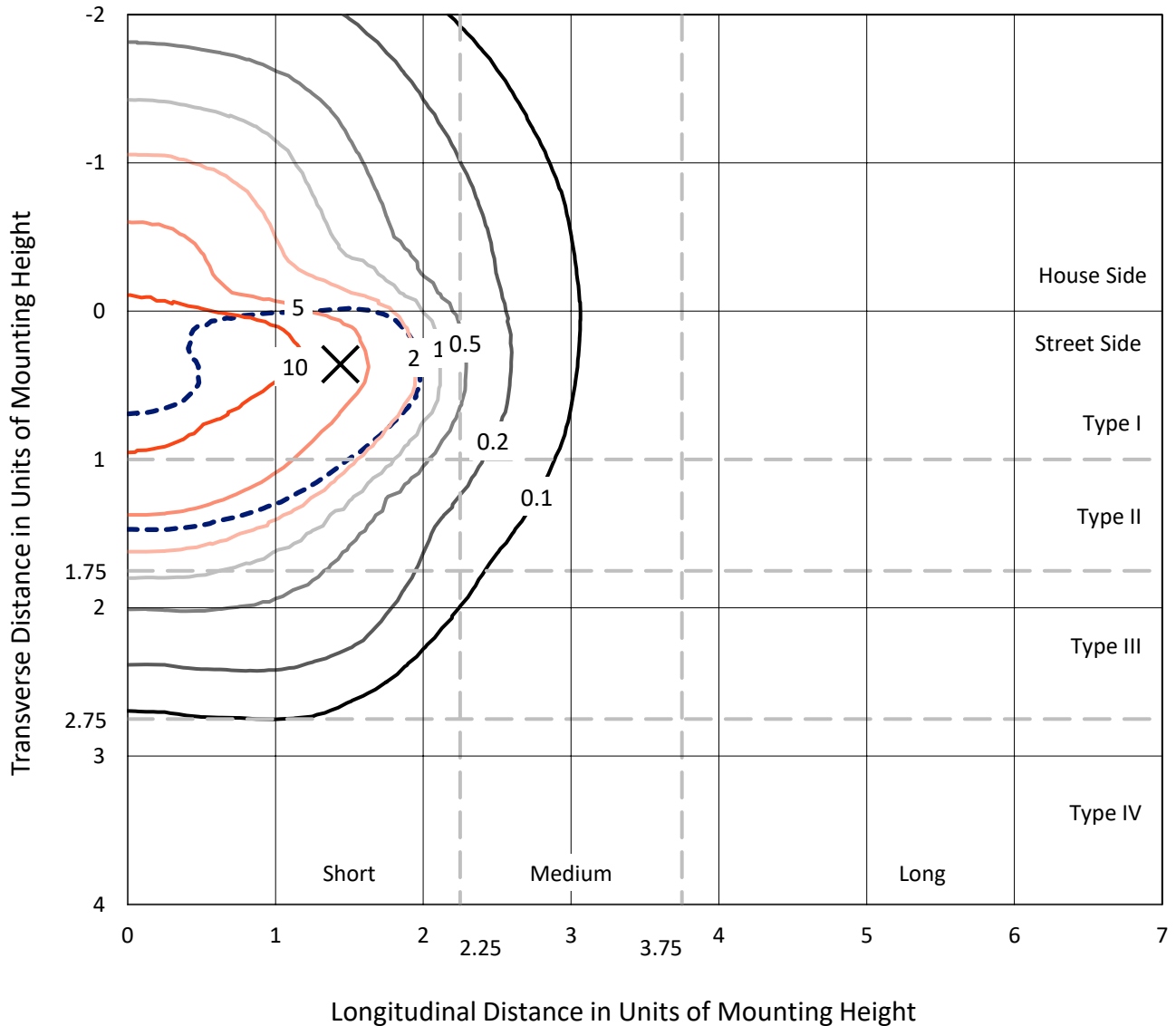
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

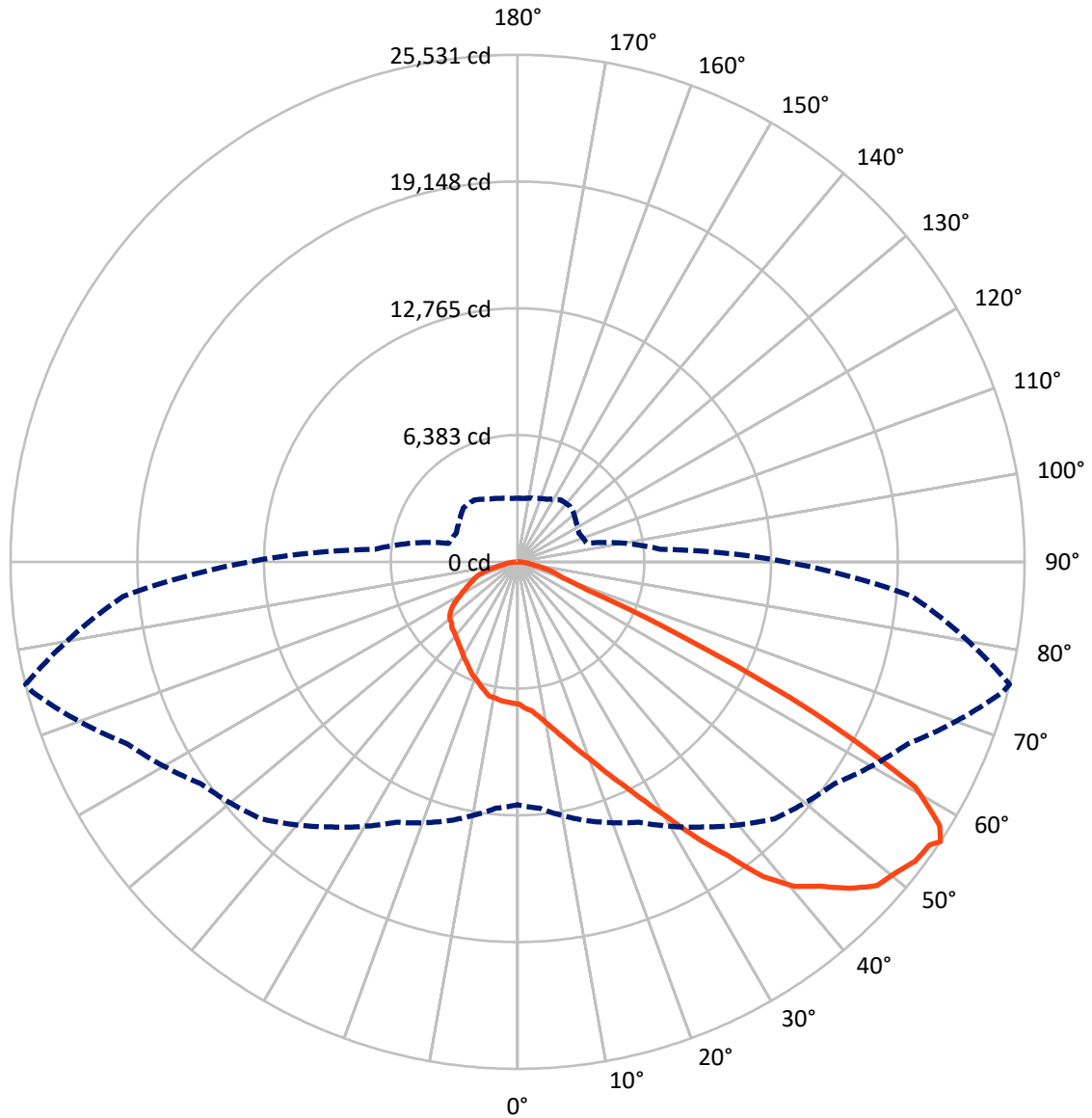
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10057.6	0.0	10057.6
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	27349.4	0.0	27349.4
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	37407.0	0.0	37407.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	709.8	1.9
10°-20°	2229.7	6.0
20°-30°	3899.4	10.4
30°-40°	6105.4	16.3
40°-50°	8881.6	23.7
50°-60°	9761.4	26.1
60°-70°	4357.1	11.6
70°-80°	1258.5	3.4
80°-90°	204.1	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°	37407.0	100.0
0°-180°	37407.0	100.0

**Coefficient of Utilization**

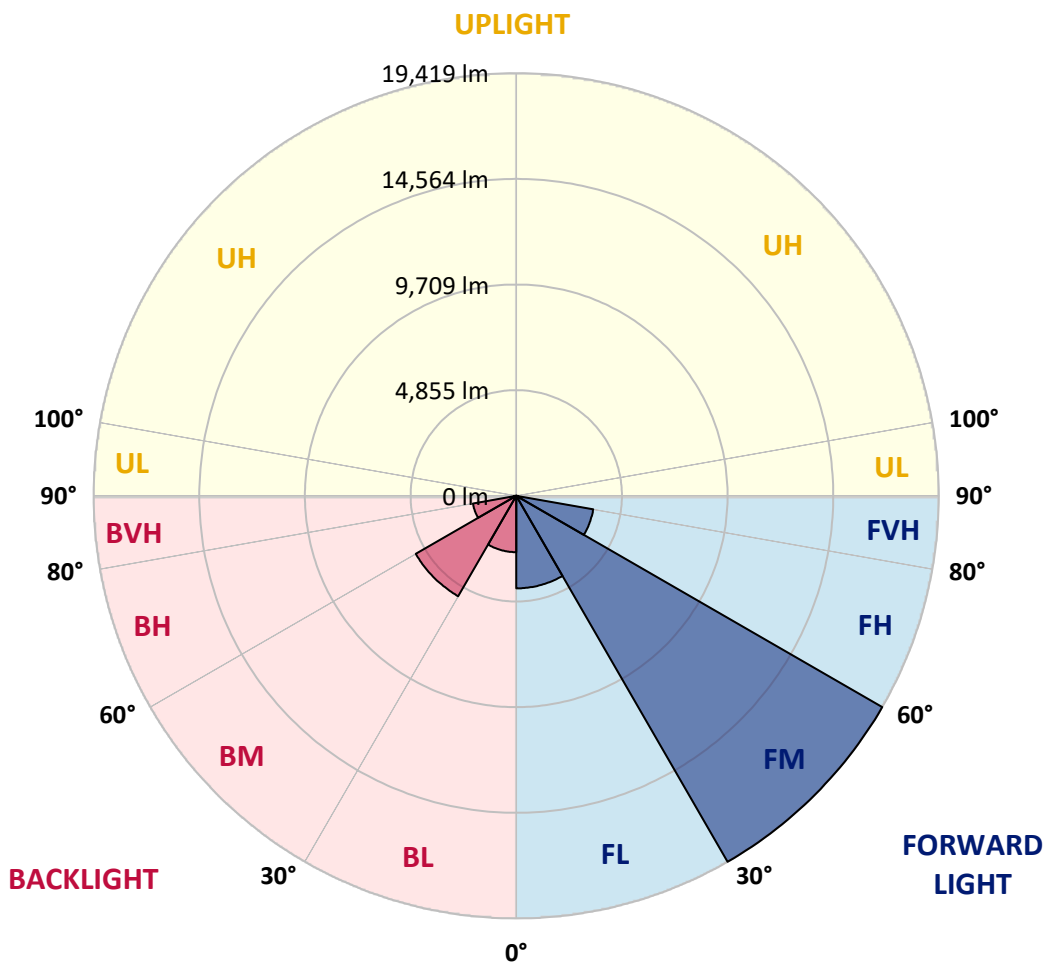


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4250.9	11.4			
FM (30°-60°)	19418.7	51.9			
FH (60°-80°)	3592.0	9.6			G2/5000
FVH (80°-90°)	87.9	0.2			G1/100
BL (0°-30°)	2588.0	6.9	B4/5000		
BM (30°-60°)	5329.7	14.2	B4/8500		
BH (60°-80°)	2023.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	116.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3
2.5°	7884.7	7758.6	7748.9	7715.0	7734.4	7647.1	7555.0	7433.8	7307.7	7385.3	7201.0
5°	8437.5	8267.8	8335.7	8219.3	8233.9	8117.5	7928.4	7787.7	7632.6	7540.4	7409.5
7.5°	8631.5	8646.0	8694.5	8675.1	8578.2	8578.2	8452.1	8204.8	7933.2	7879.9	7661.7
10°	8893.3	8898.2	8844.9	8859.4	8995.2	8932.1	8820.6	8713.9	8364.8	8301.7	7913.8
12.5°	8985.5	8898.2	8985.5	9063.1	9223.1	9310.4	9286.1	9208.5	8835.2	8791.5	8224.2
15°	9000.0	8946.7	9019.4	9194.0	9334.6	9703.2	9887.4	9834.1	9339.5	9344.3	8573.3
17.5°	8932.1	9004.9	9034.0	9184.3	9509.2	9853.5	10386.9	10459.6	10052.3	9989.3	9014.6
20°	9024.3	8970.9	9009.7	9145.5	9577.1	10115.3	10813.6	11293.7	10721.5	10677.8	9470.4
22.5°	9378.3	9305.5	9295.8	9383.1	9693.5	10251.1	11264.6	12127.7	11536.1	11560.4	10037.7
25°	9654.7	9693.5	9659.5	9654.7	9848.6	10454.8	11861.0	13121.8	12641.7	12501.1	10706.9
27.5°	10129.9	10222.0	10154.1	10246.3	10202.6	10760.3	12287.8	14222.6	13834.6	13645.5	11313.1
30°	10789.4	10837.9	10774.8	10774.8	10643.9	11187.0	12675.7	15371.8	15211.8	14954.8	12025.9
32.5°	11657.4	11730.1	11604.0	11531.3	11511.9	11822.2	13374.0	16506.5	16778.1	16559.9	12971.5
35°	12806.6	12763.0	12612.6	12544.8	12282.9	12796.9	14411.7	17810.9	18523.8	18135.8	14115.9
37.5°	13820.1	13752.2	13742.5	13364.3	13427.3	13849.2	15294.2	18800.2	20216.1	20104.6	15323.3
40°	14765.7	14828.7	14930.5	14717.2	14620.2	15085.7	16322.2	19556.6	21530.2	21486.6	16254.4
42.5°	15779.1	15721.0	15900.4	15721.0	15575.5	16235.0	17437.6	20080.3	22684.3	22325.5	17229.0
45°	17248.4	17064.2	17127.2	17141.8	17035.1	17277.5	17898.2	20458.6	23494.1	23455.4	17941.9
47.5°	18475.3	18480.1	18373.4	18291.0	17966.1	18208.6	18412.2	20696.2	24425.2	24362.1	18218.3
50°	18931.1	18868.1	19178.4	19357.8	19377.2	18882.6	18814.7	20827.1	24914.9	24638.5	18494.7
52.5°	17292.1	17350.3	17840.0	18906.8	19522.7	19576.0	19285.1	21098.7	25113.8	25055.6	18717.7
55°	13917.1	14198.3	15003.3	16235.0	17694.6	19299.6	19794.2	21379.9	25220.4	25172.0	19707.0
56°	12234.4	12452.6	13500.0	14465.0	16298.0	18295.9	19474.2	21680.6	25302.9	25530.8	19939.7
57.5°	9848.6	10100.8	10852.4	11948.3	14111.0	16385.3	18591.7	21312.0	24982.8	25070.1	20109.4
60°	6158.4	6182.7	7084.6	7807.1	9329.8	11550.7	14188.6	18543.2	23120.8	22994.7	18063.1
62.5°	4039.3	4044.2	4863.7	5455.3	6148.7	6657.9	8350.2	12297.5	17059.3	16836.3	12860.0
65°	2836.8	2899.8	3535.0	4325.4	4606.7	4340.0	4286.7	6483.3	9528.6	9208.5	6910.0
67.5°	2075.4	2080.3	2642.8	3491.4	3898.7	3302.3	2681.6	3166.5	3772.6	3762.9	3200.4
70°	1372.3	1430.5	1862.1	2608.8	3074.4	2652.5	2191.8	2264.6	2400.3	2400.3	2380.9
72.5°	800.1	853.5	1139.6	1653.6	1726.3	1658.4	1736.0	1939.7	2026.9	2022.1	1997.9
75°	455.8	480.1	543.1	688.6	858.3	1013.5	1275.3	1469.3	1556.6	1609.9	1546.9
77.5°	266.7	281.3	320.0	392.8	446.1	548.0	693.4	829.2	945.6	931.0	940.7
80°	140.6	140.6	179.4	232.8	310.3	387.9	460.7	538.3	601.3	615.8	630.4
82.5°	82.4	87.3	116.4	169.7	223.1	276.4	354.0	407.3	465.5	470.4	480.1
85°	43.6	48.5	72.7	111.5	150.3	169.7	174.6	164.9	179.4	169.7	194.0
87.5°	14.5	14.5	24.2	19.4	19.4	24.2	29.1	29.1	38.8	38.8	38.8
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°	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3	7157.3
2.5°	7196.1	7196.1	7113.7	6958.5	6934.3	6871.2	6813.1	6808.2	6764.6	6725.8	6706.4
5°	7331.9	7181.6	7060.4	6919.7	6754.9	6677.3	6590.0	6493.0	6454.2	6493.0	6488.2
7.5°	7487.1	7361.0	6997.3	6735.5	6546.4	6468.8	6371.8	6270.0	6279.7	6279.7	6211.8
10°	7637.4	7467.7	6885.8	6551.2	6274.8	6216.6	6163.3	6202.1	6250.6	6260.3	6216.6
12.5°	7889.6	7506.5	6832.5	6366.9	6192.4	6066.3	6100.2	6206.9	6308.7	6279.7	6313.6
15°	8078.7	7540.4	6590.0	6177.8	5959.6	6017.8	6139.0	6211.8	6381.5	6362.1	6396.0
17.5°	8263.0	7559.8	6352.4	5925.7	5833.5	5993.6	6085.7	6294.2	6347.5	6463.9	6507.6
20°	8641.2	7598.6	6109.9	5770.5	5741.4	5925.7	6085.7	6182.7	6299.0	6400.9	6400.9
22.5°	8835.2	7579.2	5949.9	5566.8	5659.0	5775.3	5920.8	6085.7	6085.7	6182.7	6187.5
25°	9077.6	7501.6	5697.8	5469.8	5537.7	5649.3	5814.1	5755.9	5819.0	5819.0	5896.6
27.5°	9354.0	7336.8	5479.5	5295.3	5431.1	5552.3	5576.5	5537.7	5465.0	5455.3	5426.2
30°	9577.1	7133.1	5319.5	5237.1	5348.6	5416.5	5338.9	5256.5	5130.4	5120.7	5052.8
32.5°	9882.6	6880.9	5120.7	5091.6	5217.7	5222.5	5198.3	5072.2	4887.9	4810.4	4732.8
35°	10396.6	6735.5	4970.4	5014.0	5052.8	5038.3	4994.6	4858.9	4674.6	4640.6	4611.5
37.5°	10774.8	6628.8	4815.2	4868.5	4902.5	4921.9	4791.0	4640.6	4645.5	4577.6	4558.2
40°	11201.5	6560.9	4689.1	4713.4	4718.2	4781.3	4621.2	4548.5	4582.4	4538.8	4567.9
42.5°	11749.5	6580.3	4558.2	4538.8	4630.9	4606.7	4529.1	4432.1	4451.5	4320.6	4340.0
45°	12040.4	6711.2	4480.6	4393.3	4495.2	4490.3	4388.5	4296.3	4180.0	3927.8	3937.5
47.5°	12234.4	6745.2	4296.3	4238.2	4344.8	4407.9	4291.5	4078.1	3913.3	3733.8	3690.2
50°	12433.2	6808.2	4209.1	4087.8	4131.5	4281.8	4136.3	3932.7	3772.6	3612.6	3636.9
52.5°	12607.8	6929.4	4039.3	3859.9	3937.5	4102.4	4024.8	3777.5	3602.9	3472.0	3433.2
55°	13383.7	7201.0	3753.2	3520.5	3704.8	3913.3	3869.6	3569.0	3379.9	3312.0	3302.3
56°	13504.9	7210.7	3602.9	3404.1	3573.8	3850.2	3796.9	3476.8	3307.1	3200.4	3205.3
57.5°	13524.3	7094.3	3389.6	3297.4	3442.9	3758.1	3690.2	3404.1	3171.3	3074.4	3045.3
60°	11899.8	5537.7	3122.9	3064.7	3234.4	3476.8	3452.6	3205.3	2943.4	2831.9	2885.2
62.5°	8112.6	4058.7	2914.3	2904.6	2991.9	3229.5	3166.5	2943.4	2725.2	2652.5	2618.5
65°	4723.1	3079.2	2710.7	2671.9	2744.6	2870.7	2914.3	2681.6	2453.7	2405.2	2390.6
67.5°	2788.3	2545.8	2448.8	2385.8	2361.5	2439.1	2473.1	2337.3	2109.4	2041.5	2099.7
70°	2332.4	2264.6	2269.4	2162.7	2104.5	2051.2	2022.1	1900.9	1711.8	1624.5	1600.2
72.5°	2012.4	1983.3	1963.9	1866.9	1813.6	1692.4	1566.3	1445.0	1304.4	1231.7	1236.5
75°	1537.2	1527.5	1537.2	1488.7	1396.6	1299.6	1183.2	1028.0	921.3	829.2	848.6
77.5°	916.5	945.6	960.1	940.7	901.9	814.7	741.9	640.1	538.3	465.5	455.8
80°	630.4	654.6	678.9	654.6	615.8	552.8	475.2	397.6	324.9	286.1	276.4
82.5°	480.1	504.3	518.9	494.6	446.1	378.2	324.9	271.6	213.4	174.6	164.9
85°	174.6	198.8	194.0	232.8	252.2	242.5	208.5	160.0	121.2	87.3	82.4
87.5°	48.5	43.6	48.5	48.5	48.5	43.6	38.8	38.8	38.8	24.2	19.4
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)