

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: P530998

Luminaire Tested: **GALN-SA6B-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530998  
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-SA6B-730-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA 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: 27004 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

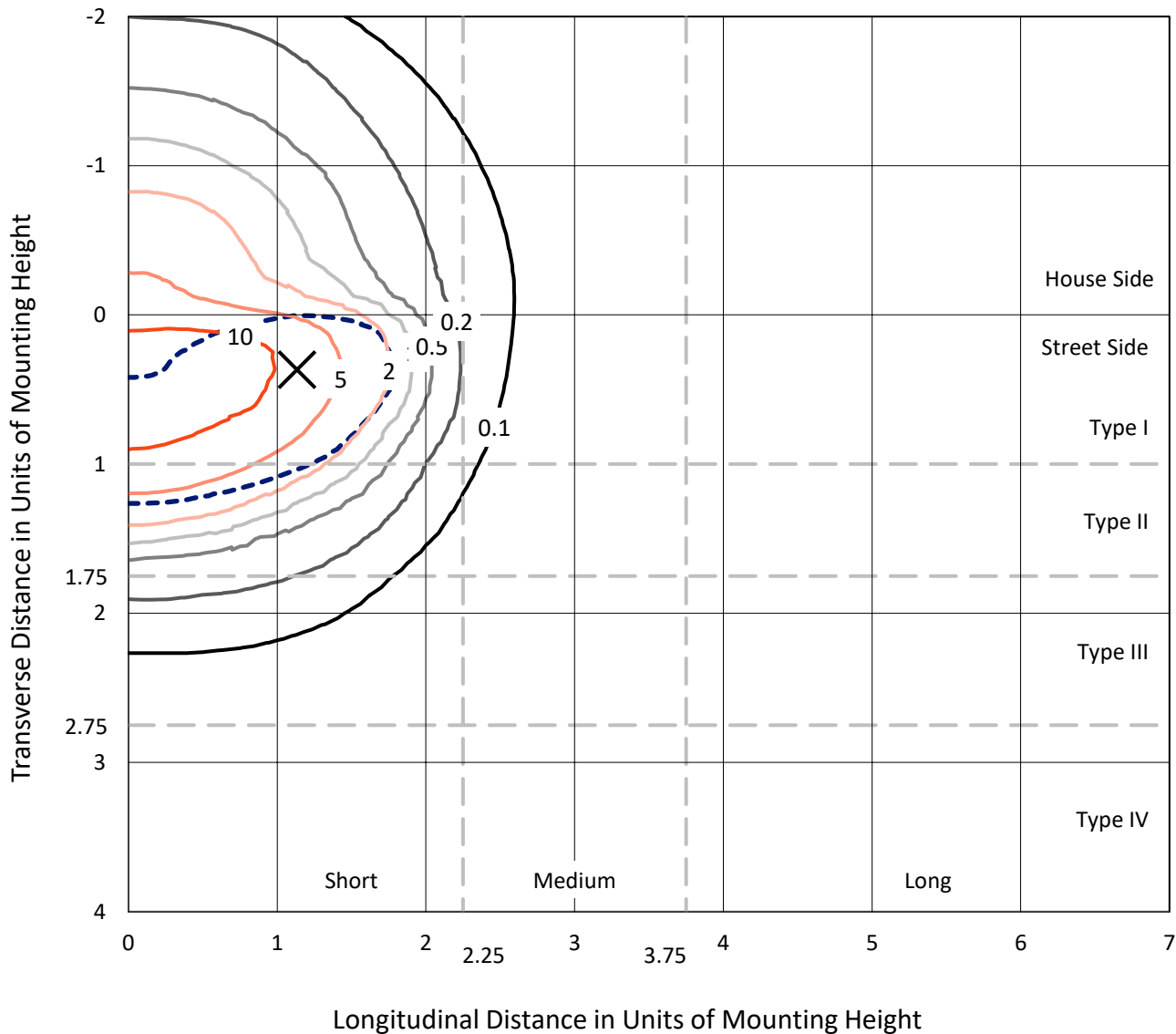
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

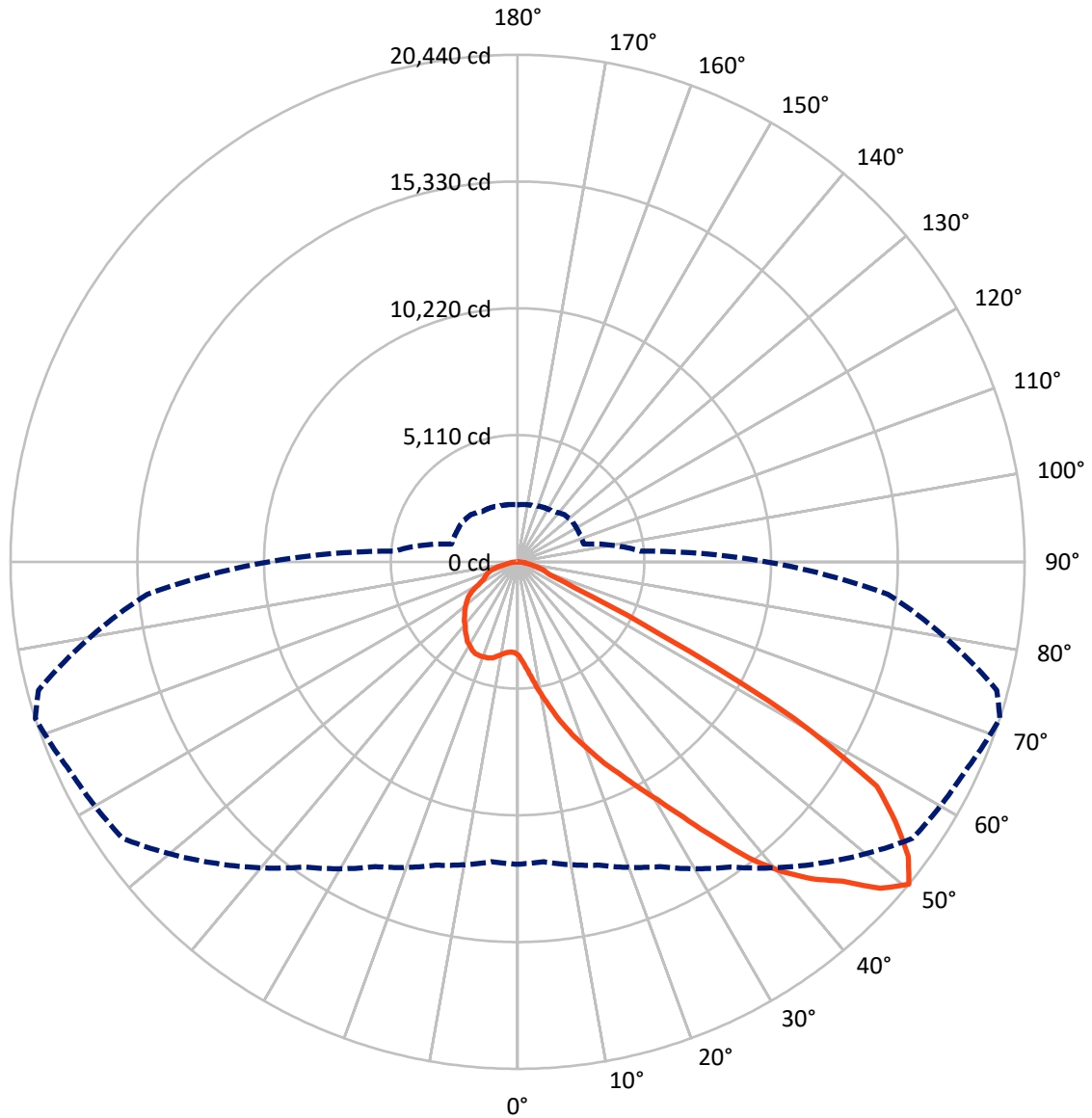
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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
<b>House Side</b>	Lumens	6186.8	0.0	6186.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	20817.2	0.0	20817.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	27004.0	0.0	27004.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.2	1.6
10°-20°	1653.0	6.1
20°-30°	3205.1	11.9
30°-40°	5309.7	19.7
40°-50°	7429.4	27.5
50°-60°	6267.6	23.2
60°-70°	1910.4	7.1
70°-80°	670.2	2.5
80°-90°	116.5	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°	27004.0	100.0
0°-180°	27004.0	100.0

**Coefficient of Utilization**



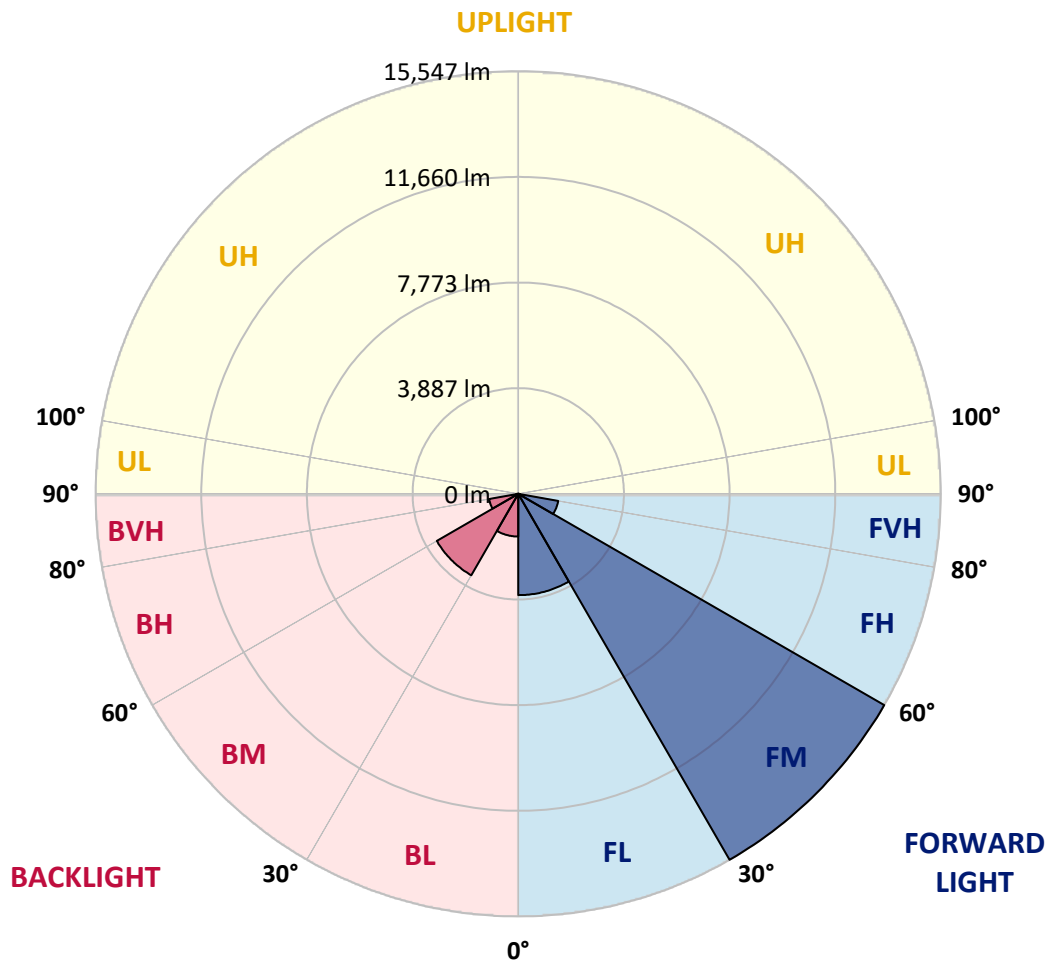
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 CATALOG NUMBER: GALN-SA6B-730-U-T2R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3727.5	13.8			
FM (30°-60°)	15546.9	57.6			
FH (60°-80°)	1490.6	5.5			G1/1800
FVH (80°-90°)	52.2	0.2			G1/100
BL (0°-30°)	1572.7	5.8	B3/2500		
BM (30°-60°)	3459.7	12.8	B3/5000		
BH (60°-80°)	1090.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	64.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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CATALOG NUMBER: GALN-SA6B-730-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2
2.5°	4835.1	4805.1	4714.9	4684.8	4577.9	4384.0	4317.2	4120.1	4036.5	3959.7	3869.5
5°	6114.9	5974.6	5964.6	5794.2	5546.9	5403.2	4975.5	4688.1	4424.1	4290.5	4043.2
7.5°	6930.3	6933.6	6933.6	6793.3	6596.1	6231.9	5847.6	5329.7	4932.1	4734.9	4313.9
10°	7705.5	7638.7	7601.9	7588.5	7454.9	7100.7	6689.7	6048.1	5503.4	5272.9	4517.7
12.5°	8253.5	8196.7	8280.2	8236.8	8139.9	7909.3	7521.7	6789.9	6108.3	5797.5	4845.2
15°	8514.1	8554.2	8621.1	8741.4	8697.9	8611.0	8183.3	7551.8	6759.9	6409.0	5135.9
17.5°	8915.1	8804.9	8885.0	9035.4	9155.7	9115.6	8871.7	8103.1	7404.8	6973.7	5526.8
20°	9195.8	9132.3	9172.4	9346.2	9436.4	9663.6	9536.6	8824.9	8022.9	7568.5	5988.0
22.5°	9997.8	9904.2	9773.9	9800.6	9834.0	9994.4	10024.5	9616.8	8741.4	8260.2	6425.7
25°	10986.9	10900.0	10746.3	10589.2	10492.3	10462.2	10565.8	10238.4	9429.7	8931.8	6896.9
27.5°	12076.2	11929.2	11832.3	11508.1	11247.5	11207.4	11157.3	10980.2	10245.0	9707.1	7428.2
30°	13135.4	13018.5	12888.2	12370.2	12099.6	12056.1	11808.9	11859.0	11130.5	10532.4	8029.6
32.5°	13937.4	13947.4	13650.0	13259.1	13005.1	12774.6	12684.3	12828.0	12266.6	11785.5	8701.3
35°	14585.6	14615.7	14331.7	13977.5	13703.5	13863.9	13823.8	13890.6	13623.3	13035.2	9483.2
37.5°	15217.2	15066.8	14762.7	14592.3	14448.6	14712.6	15053.5	15110.3	15160.4	14468.7	10392.1
40°	15320.8	15334.1	15157.0	15277.3	15096.9	15494.5	16286.5	16213.0	16416.8	15812.0	11377.8
42.5°	15173.7	15203.8	15274.0	15444.4	15878.8	16356.6	17532.8	17232.1	17479.4	16941.4	12336.8
45°	14933.2	14809.5	14896.4	15544.7	16296.5	17359.1	18672.3	18438.4	18358.2	17907.1	13479.6
47.5°	13783.7	13910.7	14181.3	14979.9	16109.4	17532.8	19480.9	19427.5	19668.1	19350.6	14518.8
50°	12189.8	12139.7	12660.9	13559.8	15016.7	17192.0	19437.5	19922.0	20440.0	19998.9	14983.3
52.5°	9129.0	9396.3	9844.1	10960.1	13038.5	15334.1	18488.5	19297.2	19718.2	19624.6	14609.0
55°	5770.8	5851.0	6121.6	7448.2	9319.4	12306.7	15848.7	17723.3	18475.2	18826.0	14264.9
57.5°	2803.5	2653.2	2984.0	4049.9	5383.2	8276.9	12223.2	15437.7	17071.7	17706.6	13516.4
60°	1463.6	1520.4	1650.7	2031.6	2783.5	4297.2	7618.6	10288.5	12784.6	13760.3	10245.0
62.5°	1213.0	1233.0	1319.9	1510.4	1851.2	2472.7	3889.5	5015.6	6519.3	7398.1	5827.6
65°	1029.2	1039.2	1132.8	1259.7	1476.9	1740.9	2001.6	2095.1	2536.2	2603.0	2071.7
67.5°	858.8	868.8	969.0	1089.3	1229.7	1299.8	1366.7	1360.0	1410.1	1390.1	1386.7
70°	661.6	671.6	775.2	902.2	972.4	932.3	1139.5	1186.2	1206.3	1223.0	1249.7
72.5°	477.8	497.9	578.1	668.3	631.5	725.1	939.0	1009.1	1035.9	1045.9	1079.3
75°	347.5	354.2	374.2	347.5	401.0	504.6	661.6	748.5	781.9	791.9	842.1
77.5°	153.7	157.1	160.4	200.5	257.3	314.1	394.3	464.5	511.2	524.6	538.0
80°	80.2	83.5	103.6	137.0	183.8	230.6	287.4	327.5	357.5	360.9	374.2
82.5°	50.1	53.5	73.5	96.9	130.3	170.4	210.5	243.9	267.3	270.7	274.0
85°	23.4	30.1	43.4	60.1	86.9	110.3	113.6	96.9	103.6	106.9	100.2
87.5°	6.7	10.0	13.4	10.0	13.4	13.4	16.7	20.0	20.0	20.0	23.4
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°	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2	3759.2
2.5°	3819.3	3789.3	3672.3	3628.9	3515.3	3535.3	3475.2	3471.8	3458.5	3455.1	3451.8
5°	3912.9	3819.3	3679.0	3572.1	3508.6	3501.9	3458.5	3458.5	3471.8	3481.8	3458.5
7.5°	4066.6	3959.7	3722.4	3622.2	3565.4	3555.4	3525.3	3501.9	3532.0	3521.9	3495.2
10°	4243.7	4056.6	3806.0	3719.1	3625.5	3602.1	3602.1	3612.2	3562.0	3578.7	3552.0
12.5°	4440.9	4190.2	3912.9	3812.7	3702.4	3689.0	3682.3	3608.8	3635.6	3622.2	3555.4
15°	4691.5	4343.9	4049.9	3879.5	3785.9	3725.8	3638.9	3625.5	3608.8	3575.4	3545.3
17.5°	4962.1	4511.0	4113.4	3899.5	3759.2	3715.7	3648.9	3578.7	3528.6	3535.3	3511.9
20°	5192.7	4664.7	4136.8	3919.6	3739.1	3655.6	3552.0	3508.6	3455.1	3451.8	3448.4
22.5°	5466.7	4871.9	4170.2	3866.1	3679.0	3592.1	3521.9	3445.1	3408.3	3361.5	3384.9
25°	5794.2	4952.1	4176.9	3836.0	3635.6	3481.8	3445.1	3361.5	3348.2	3281.4	3294.7
27.5°	6031.4	4995.5	4123.4	3742.5	3535.3	3418.4	3351.5	3291.4	3268.0	3217.9	3204.5
30°	6348.8	5062.4	4009.8	3625.5	3435.1	3304.7	3264.6	3251.3	3184.4	3131.0	3124.3
32.5°	6709.7	5105.8	3936.3	3505.2	3331.5	3231.2	3251.3	3187.8	3104.3	3057.5	3044.1
35°	6997.1	5122.5	3752.5	3368.2	3261.3	3197.8	3174.4	3161.1	3040.8	2997.3	2963.9
37.5°	7434.8	5085.8	3598.8	3271.3	3184.4	3161.1	3141.0	3050.8	2913.8	2850.3	2803.5
40°	7946.1	5075.7	3401.6	3134.3	3110.9	3137.7	3077.5	2937.2	2746.7	2676.5	2643.1
42.5°	8437.3	5145.9	3278.0	3060.8	3030.7	3040.8	2957.2	2746.7	2653.2	2613.1	2559.6
45°	9259.3	5292.9	3074.2	2947.2	2933.8	2927.2	2826.9	2606.4	2552.9	2502.8	2492.8
47.5°	10001.1	5196.0	2943.9	2830.3	2843.6	2806.9	2593.0	2522.8	2462.7	2412.6	2395.9
50°	10044.5	4965.5	2760.1	2740.0	2743.4	2679.9	2476.1	2429.3	2352.4	2319.0	2295.6
52.5°	9817.3	4587.9	2589.7	2596.3	2606.4	2502.8	2332.4	2299.0	2235.5	2188.7	2175.3
55°	9179.1	3999.8	2422.6	2449.3	2476.1	2278.9	2225.4	2141.9	2091.8	2024.9	2028.3
57.5°	8086.4	3221.2	2188.7	2232.1	2288.9	2071.7	2031.6	1928.0	1854.5	1801.1	1794.4
60°	5419.9	2292.3	1837.8	1854.5	1981.5	1894.6	1891.3	1787.7	1687.5	1640.7	1613.9
62.5°	3197.8	1750.9	1587.2	1570.5	1567.2	1617.3	1700.8	1664.1	1533.7	1443.5	1470.3
65°	1674.1	1513.7	1476.9	1420.1	1386.7	1373.4	1436.8	1453.6	1366.7	1269.8	1263.1
67.5°	1406.8	1406.8	1376.7	1356.6	1309.9	1253.1	1213.0	1159.5	1146.1	1119.4	1086.0
70°	1279.8	1313.2	1303.2	1256.4	1216.3	1152.8	1049.2	962.4	878.8	848.7	868.8
72.5°	1116.1	1149.5	1149.5	1126.1	1072.6	975.7	875.5	775.2	705.1	651.6	644.9
75°	858.8	875.5	915.6	888.8	818.7	758.5	654.9	551.3	484.5	434.4	424.4
77.5°	548.0	574.7	574.7	571.4	521.3	464.5	397.6	324.1	274.0	237.2	227.2
80°	364.2	380.9	394.3	380.9	347.5	304.1	254.0	203.8	167.1	137.0	130.3
82.5°	267.3	287.4	297.4	284.0	250.6	217.2	180.4	143.7	106.9	83.5	76.9
85°	103.6	106.9	120.3	143.7	140.3	137.0	110.3	80.2	60.1	43.4	40.1
87.5°	26.7	23.4	26.7	26.7	23.4	20.0	20.0	20.0	20.0	10.0	13.4
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)