

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: P533232

Luminaire Tested: **GALN-SA8C-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533232  
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-SA8C-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 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: 35005 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

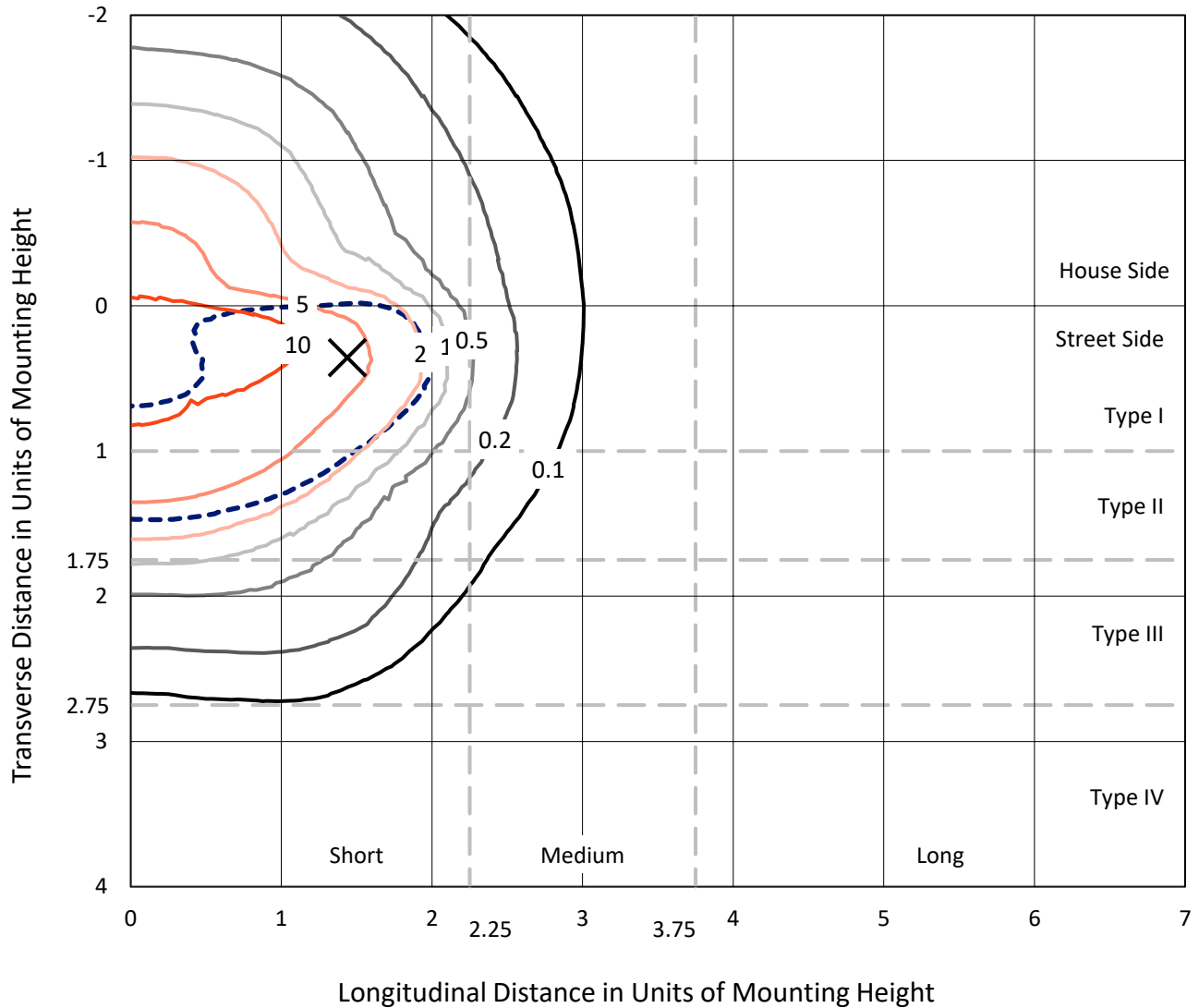
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

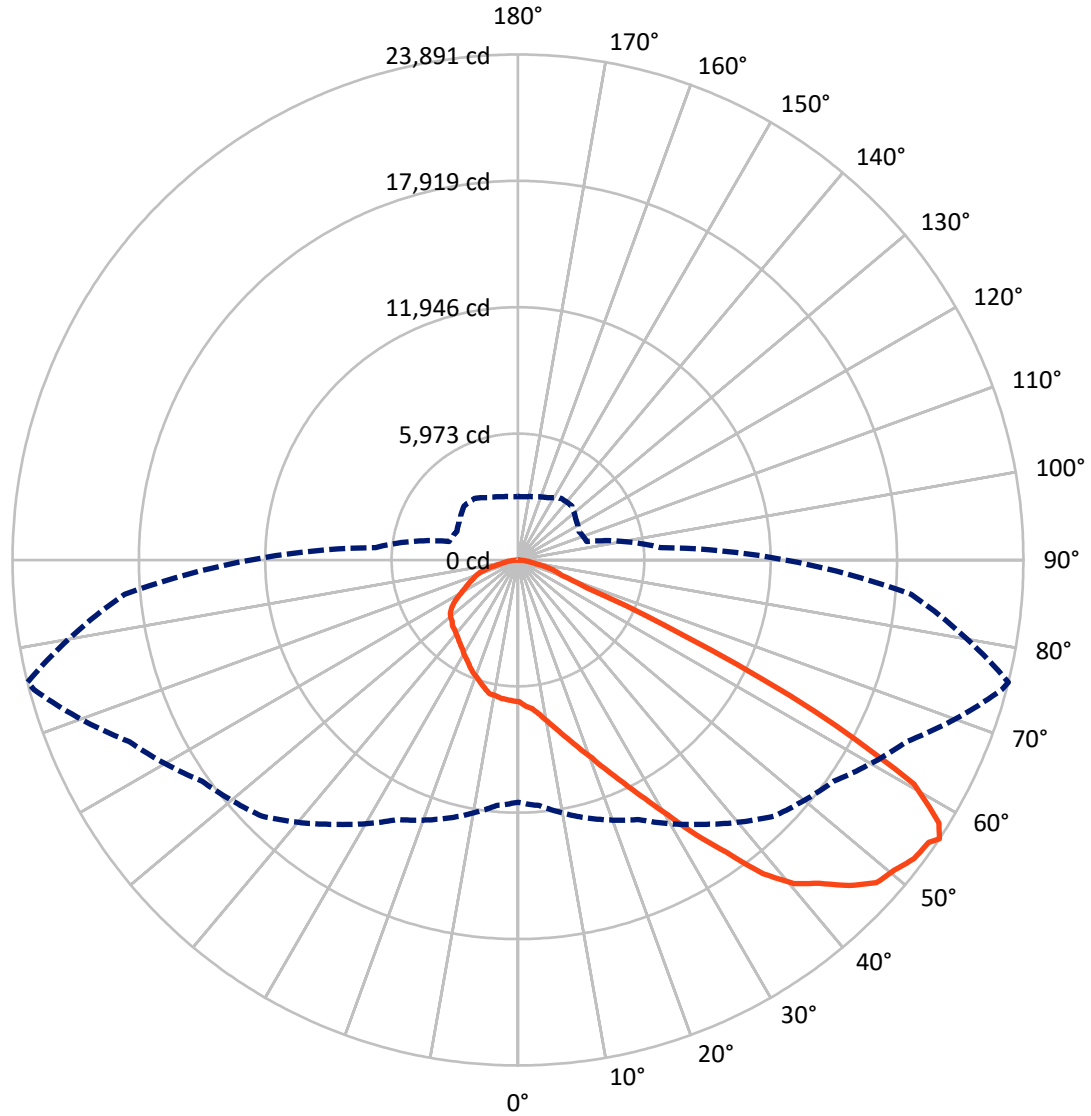
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	9411.8	0.0	9411.8
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	25593.2	0.0	25593.2
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	35005.0	0.0	35005.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.2	1.9
10°-20°	2086.5	6.0
20°-30°	3649.0	10.4
30°-40°	5713.3	16.3
40°-50°	8311.3	23.7
50°-60°	9134.6	26.1
60°-70°	4077.3	11.6
70°-80°	1177.7	3.4
80°-90°	191.0	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°	35005.0	100.0
0°-180°	35005.0	100.0

**Coefficient of Utilization**



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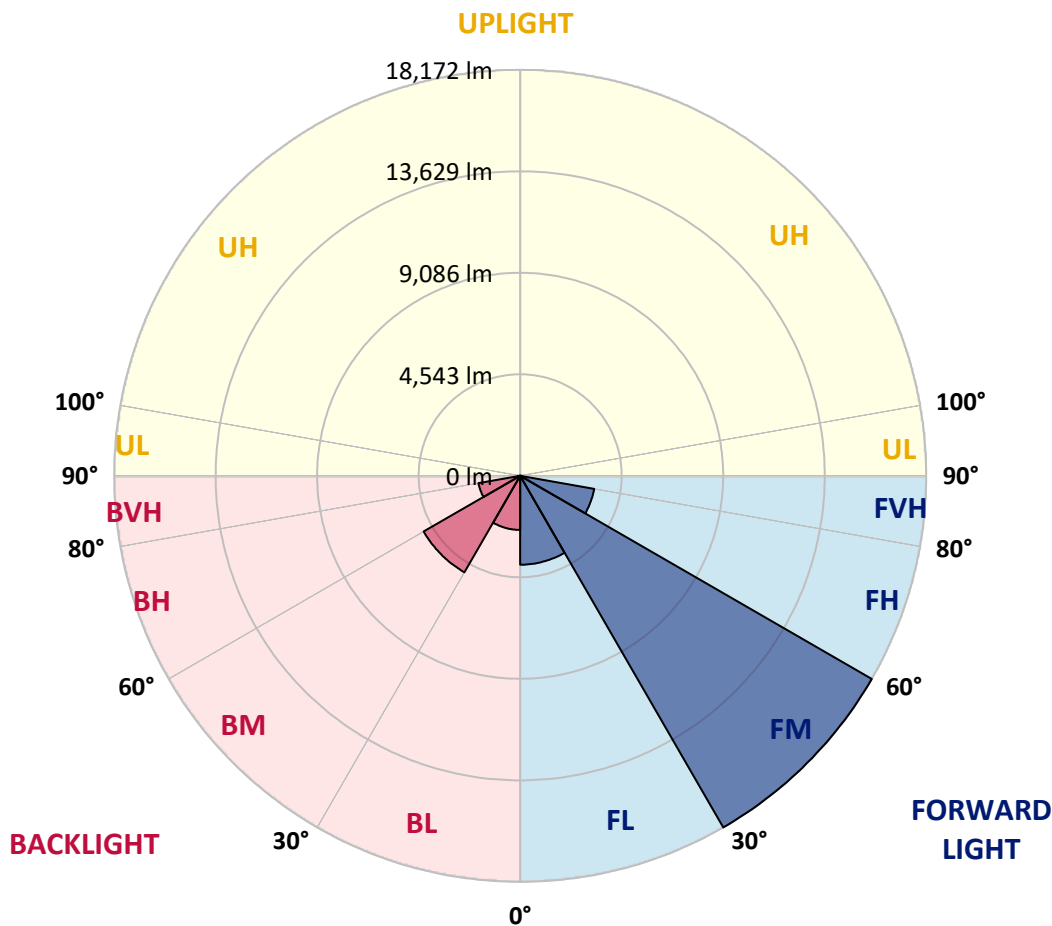
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3977.9	11.4			
FM (30°-60°)	18171.7	51.9			
FH (60°-80°)	3361.3	9.6			G2/5000
FVH (80°-90°)	82.2	0.2			G1/100
BL (0°-30°)	2421.8	6.9	B3/2500		
BM (30°-60°)	4987.5	14.2	B3/5000		
BH (60°-80°)	1893.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	108.8	0.3			G2/225
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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8
2.5°	7378.4	7260.4	7251.4	7219.6	7237.8	7156.1	7069.9	6956.4	6838.4	6911.0	6738.6
5°	7895.7	7736.9	7800.4	7691.5	7705.1	7596.2	7419.3	7287.7	7142.5	7056.2	6933.7
7.5°	8077.2	8090.9	8136.2	8118.1	8027.3	8027.3	7909.3	7677.9	7423.8	7373.9	7169.7
10°	8322.3	8326.8	8276.9	8290.5	8417.6	8358.6	8254.2	8154.4	7827.7	7768.7	7405.7
12.5°	8408.5	8326.8	8408.5	8481.1	8630.8	8712.5	8689.8	8617.2	8267.8	8227.0	7696.1
15°	8422.1	8372.2	8440.3	8603.6	8735.2	9080.1	9252.5	9202.6	8739.8	8744.3	8022.8
17.5°	8358.6	8426.6	8453.9	8594.5	8898.6	9220.8	9719.9	9788.0	9406.8	9347.8	8435.7
20°	8444.8	8394.9	8431.2	8558.2	8962.1	9465.8	10119.2	10568.5	10033.0	9992.2	8862.3
22.5°	8776.1	8708.0	8698.9	8780.6	9071.0	9592.9	10541.3	11349.0	10795.4	10818.1	9393.2
25°	9034.7	9071.0	9039.2	9034.7	9216.2	9783.4	11099.4	12279.2	11830.0	11698.4	10019.4
27.5°	9479.4	9565.6	9502.1	9588.3	9547.5	10069.3	11498.7	13309.3	12946.3	12769.3	10586.6
30°	10096.6	10141.9	10082.9	10082.9	9960.4	10468.6	11861.7	14384.7	14235.0	13994.5	11253.7
32.5°	10908.8	10976.9	10858.9	10790.8	10772.7	11063.1	12515.2	15446.6	15700.7	15496.5	12138.6
35°	11984.3	11943.4	11802.8	11739.2	11494.2	11975.2	13486.3	16667.3	17334.3	16971.3	13209.5
37.5°	12932.7	12869.1	12860.1	12506.1	12565.1	12959.9	14312.1	17593.0	18918.0	18813.6	14339.4
40°	13817.5	13876.5	13971.8	13772.1	13681.4	14117.0	15274.2	18300.9	20147.7	20106.9	15210.6
42.5°	14765.9	14711.5	14879.4	14711.5	14575.3	15192.5	16317.8	18790.9	21227.7	20891.9	16122.7
45°	16140.9	15968.4	16027.4	16041.0	15941.2	16168.1	16748.9	19144.9	21985.5	21949.2	16789.8
47.5°	17288.9	17293.5	17193.6	17116.5	16812.5	17039.3	17229.9	19367.2	22856.8	22797.8	17048.4
50°	17715.5	17656.5	17946.9	18114.8	18133.0	17670.1	17606.6	19489.7	23315.1	23056.4	17307.1
52.5°	16181.7	16236.2	16694.5	17692.8	18269.1	18319.0	18046.7	19743.9	23501.1	23446.7	17515.8
55°	13023.4	13286.6	14039.9	15192.5	16558.3	18060.3	18523.2	20007.1	23601.0	23555.6	18441.5
56°	11448.8	11653.0	12633.2	13536.2	15251.5	17121.0	18223.7	20288.4	23678.1	23891.4	18659.3
57.5°	9216.2	9452.2	10155.5	11181.1	13204.9	15333.1	17397.8	19943.5	23378.6	23460.3	18818.2
60°	5763.0	5785.7	6629.7	7305.8	8730.7	10809.0	13277.5	17352.5	21636.1	21518.1	16903.2
62.5°	3780.0	3784.5	4551.4	5105.0	5753.9	6230.4	7814.1	11507.8	15963.9	15755.2	12034.2
65°	2654.6	2713.6	3308.0	4047.7	4310.9	4061.3	4011.4	6067.0	8916.7	8617.2	6466.3
67.5°	1942.2	1946.7	2473.1	3267.2	3648.4	3090.2	2509.4	2963.2	3530.4	3521.3	2994.9
70°	1284.2	1338.6	1742.5	2441.3	2876.9	2482.2	2051.1	2119.1	2246.2	2246.2	2228.0
72.5°	748.7	798.6	1066.4	1547.4	1615.4	1551.9	1624.5	1815.1	1896.8	1892.3	1869.6
75°	426.6	449.2	508.2	644.4	803.2	948.4	1193.4	1374.9	1456.6	1506.5	1447.6
77.5°	249.6	263.2	299.5	367.6	417.5	512.8	648.9	776.0	884.9	871.3	880.3
80°	131.6	131.6	167.9	217.8	290.4	363.0	431.1	503.7	562.7	576.3	589.9
82.5°	77.1	81.7	108.9	158.8	208.7	258.7	331.3	381.2	435.6	440.2	449.2
85°	40.8	45.4	68.1	104.4	140.7	158.8	163.4	154.3	167.9	158.8	181.5
87.5°	13.6	13.6	22.7	18.2	18.2	22.7	27.2	27.2	36.3	36.3	36.3
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°	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8	6697.8
2.5°	6734.1	6734.1	6656.9	6511.7	6489.0	6430.0	6375.6	6371.0	6330.2	6293.9	6275.7
5°	6861.1	6720.4	6607.0	6475.4	6321.1	6248.5	6166.8	6076.1	6039.8	6076.1	6071.5
7.5°	7006.3	6888.3	6548.0	6303.0	6126.0	6053.4	5962.6	5867.3	5876.4	5876.4	5812.9
10°	7147.0	6988.2	6443.6	6130.5	5871.9	5817.4	5767.5	5803.8	5849.2	5858.3	5817.4
12.5°	7383.0	7024.5	6393.7	5958.1	5794.7	5676.8	5708.5	5808.4	5903.6	5876.4	5908.2
15°	7559.9	7056.2	6166.8	5781.1	5576.9	5631.4	5744.8	5812.9	5971.7	5953.6	5985.3
17.5°	7732.4	7074.4	5944.5	5545.2	5458.9	5608.7	5694.9	5890.0	5939.9	6048.9	6089.7
20°	8086.3	7110.7	5717.6	5400.0	5372.7	5545.2	5694.9	5785.7	5894.6	5989.9	5989.9
22.5°	8267.8	7092.5	5567.9	5209.4	5295.6	5404.5	5540.6	5694.9	5694.9	5785.7	5790.2
25°	8494.7	7019.9	5331.9	5118.6	5182.1	5286.5	5440.8	5386.3	5445.3	5445.3	5517.9
27.5°	8753.4	6865.7	5127.7	4955.3	5082.3	5195.8	5218.4	5182.1	5114.1	5105.0	5077.8
30°	8962.1	6675.1	4977.9	4900.8	5005.2	5068.7	4996.1	4918.9	4801.0	4791.9	4728.4
32.5°	9248.0	6439.1	4791.9	4764.7	4882.6	4887.2	4864.5	4746.5	4574.1	4501.5	4428.9
35°	9729.0	6303.0	4651.2	4692.1	4728.4	4714.7	4673.9	4546.9	4374.4	4342.7	4315.4
37.5°	10082.9	6203.1	4506.0	4555.9	4587.7	4605.8	4483.3	4342.7	4347.2	4283.7	4265.5
40°	10482.3	6139.6	4388.0	4410.7	4415.3	4474.2	4324.5	4256.4	4288.2	4247.4	4274.6
42.5°	10995.0	6157.8	4265.5	4247.4	4333.6	4310.9	4238.3	4147.5	4165.7	4043.2	4061.3
45°	11267.3	6280.3	4192.9	4111.2	4206.5	4202.0	4106.7	4020.5	3911.6	3675.6	3684.7
47.5°	11448.8	6312.0	4020.5	3966.0	4065.8	4124.8	4015.9	3816.3	3662.0	3494.1	3453.2
50°	11634.9	6371.0	3938.8	3825.3	3866.2	4006.9	3870.7	3680.1	3530.4	3380.6	3403.3
52.5°	11798.2	6484.5	3780.0	3612.1	3684.7	3839.0	3766.4	3534.9	3371.6	3249.0	3212.7
55°	12524.3	6738.6	3512.2	3294.4	3466.9	3662.0	3621.1	3339.8	3162.8	3099.3	3090.2
56°	12637.7	6747.7	3371.6	3185.5	3344.3	3603.0	3553.1	3253.6	3094.8	2994.9	2999.5
57.5°	12655.9	6638.8	3171.9	3085.7	3221.8	3516.8	3453.2	3185.5	2967.7	2876.9	2849.7
60°	11135.7	5182.1	2922.3	2867.9	3026.7	3253.6	3230.9	2999.5	2754.4	2650.1	2700.0
62.5°	7591.7	3798.1	2727.2	2718.1	2799.8	3022.2	2963.2	2754.4	2550.2	2482.2	2450.4
65°	4419.8	2881.5	2536.6	2500.3	2568.4	2686.4	2727.2	2509.4	2296.1	2250.7	2237.1
67.5°	2609.2	2382.3	2291.6	2232.6	2209.9	2282.5	2314.3	2187.2	1973.9	1910.4	1964.9
70°	2182.7	2119.1	2123.7	2023.8	1969.4	1919.5	1892.3	1778.8	1601.8	1520.2	1497.5
72.5°	1883.2	1856.0	1837.8	1747.0	1697.1	1583.7	1465.7	1352.3	1220.7	1152.6	1157.1
75°	1438.5	1429.4	1438.5	1393.1	1306.9	1216.1	1107.2	962.0	862.2	776.0	794.1
77.5°	857.6	884.9	898.5	880.3	844.0	762.3	694.3	599.0	503.7	435.6	426.6
80°	589.9	612.6	635.3	612.6	576.3	517.3	444.7	372.1	304.0	267.7	258.7
82.5°	449.2	471.9	485.5	462.9	417.5	353.9	304.0	254.1	199.7	163.4	154.3
85°	163.4	186.0	181.5	217.8	236.0	226.9	195.1	149.7	113.4	81.7	77.1
87.5°	45.4	40.8	45.4	45.4	45.4	40.8	36.3	36.3	36.3	22.7	18.2
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)