

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: P191613

Luminaire Tested: **GLEON-AF-05-LED-E1-5MQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-5MQ-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31253 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

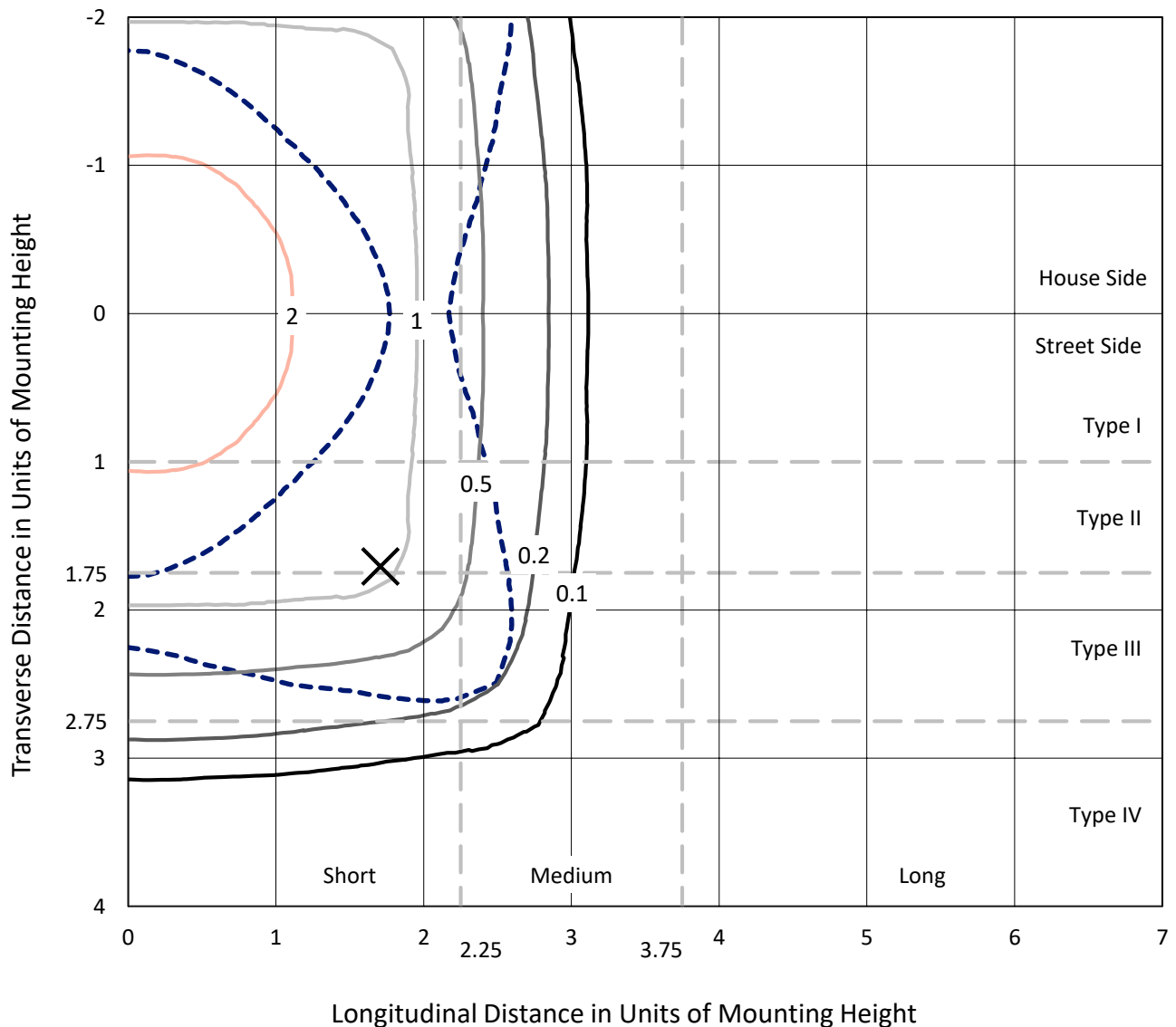
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

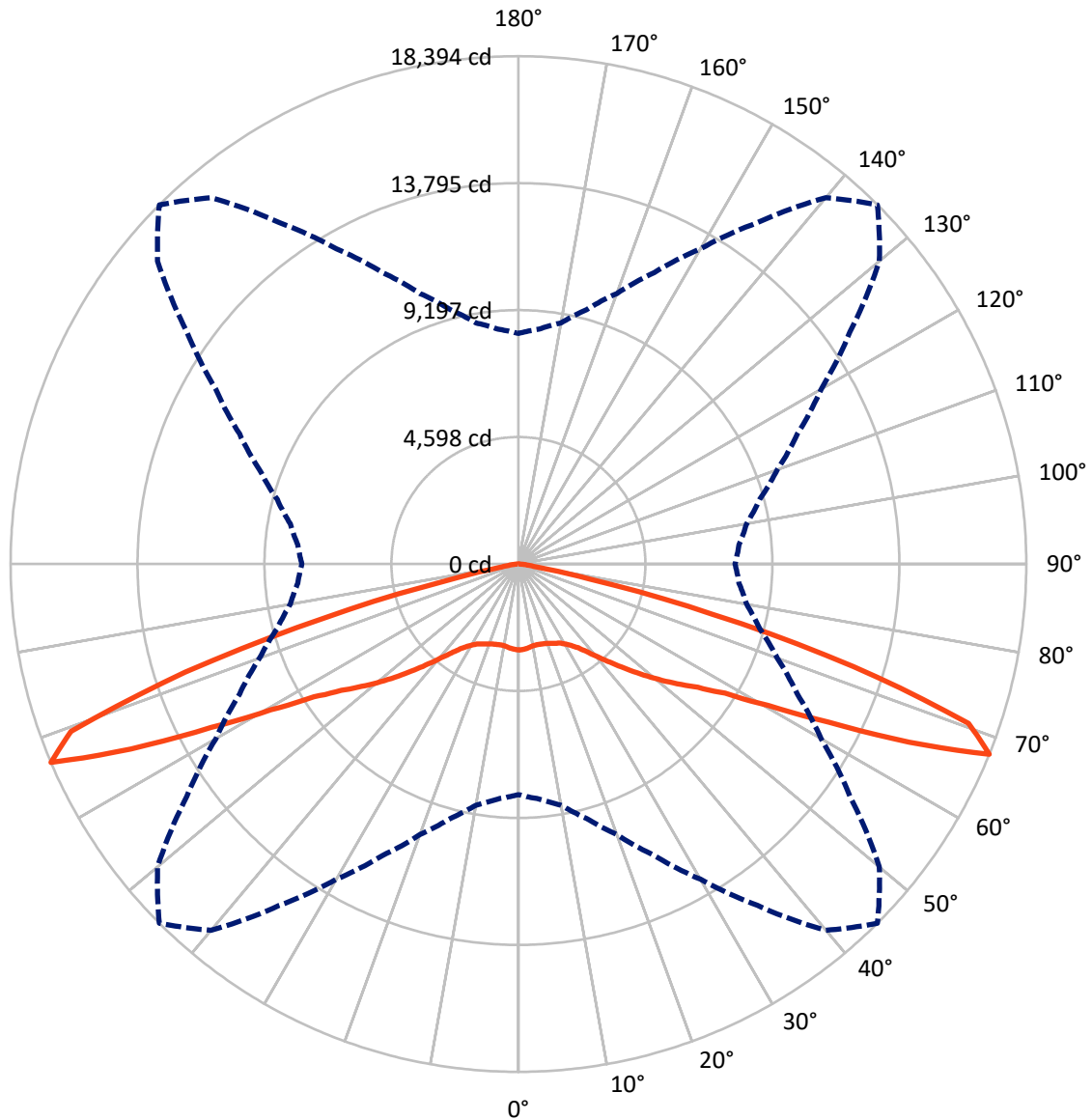
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15626.5	0.0	15626.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15626.5	0.0	15626.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31253.0	0.0	31253.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.5	0.9
10°-20°	845.9	2.7
20°-30°	1438.0	4.6
30°-40°	2350.7	7.5
40°-50°	4196.4	13.4
50°-60°	7075.2	22.6
60°-70°	10979.6	35.1
70°-80°	3857.8	12.3
80°-90°	218.0	0.7
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°	31253.0	100.0
0°-180°	31253.0	100.0



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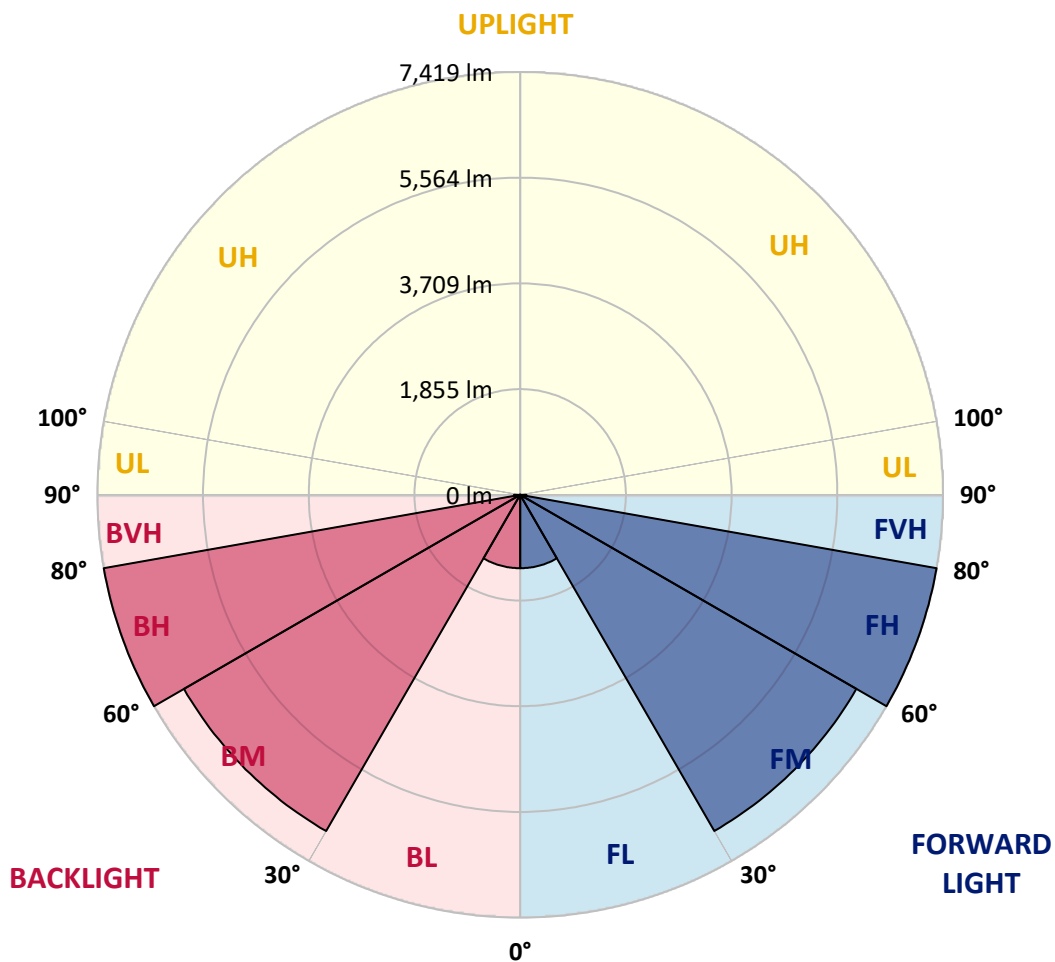
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1287.7	4.1			
FM	(30°-60°)	6811.1	21.8			
FH	(60°-80°)	7418.7	23.7			G3/7500
FVH	(80°-90°)	109.0	0.3			G2/225
BL	(0°-30°)	1287.7	4.1	B3/2500		
BM	(30°-60°)	6811.1	21.8	B4/8500		
BH	(60°-80°)	7418.7	23.7	B5		G3/7500
BVH	(80°-90°)	109.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5
2.5°	3103.0	3105.9	3105.9	3105.9	3104.4	3104.4	3101.6	3104.4	3103.0	3098.7	3100.1
5°	3077.1	3080.0	3080.0	3078.6	3082.9	3081.4	3077.1	3080.0	3078.6	3075.7	3077.1
7.5°	3039.8	3044.1	3044.1	3042.6	3046.9	3045.5	3042.6	3044.1	3044.1	3039.8	3039.8
10°	2998.1	3001.0	3001.0	2999.5	3006.7	3006.7	3005.3	3009.6	3011.0	3006.7	3003.8
12.5°	2959.3	2963.6	2963.6	2969.3	2976.5	2979.4	2986.6	2992.3	2998.1	2996.6	2990.9
15°	2936.3	2939.2	2944.9	2952.1	2963.6	2973.6	2985.1	2998.1	3009.6	3012.4	3003.8
17.5°	2921.9	2926.2	2934.8	2944.9	2960.7	2978.0	2995.2	3012.4	3028.3	3034.0	3023.9
20°	2917.6	2920.5	2929.1	2946.3	2967.9	2993.8	3018.2	3038.3	3059.9	3067.1	3059.9
22.5°	2926.2	2932.0	2942.0	2962.1	2990.9	3023.9	3052.7	3080.0	3107.3	3120.2	3110.2
25°	2965.0	2970.8	2983.7	3009.6	3041.2	3075.7	3108.7	3140.4	3164.8	3177.7	3170.5
27.5°	3036.9	3044.1	3059.9	3085.7	3120.2	3157.6	3193.5	3219.4	3239.5	3243.8	3235.2
30°	3144.7	3160.5	3179.2	3207.9	3248.2	3279.8	3315.7	3338.7	3363.1	3363.1	3355.9
32.5°	3312.8	3328.6	3348.8	3376.1	3407.7	3442.2	3473.8	3493.9	3519.8	3521.2	3504.0
35°	3564.3	3571.5	3588.8	3606.0	3634.8	3665.0	3692.3	3705.2	3726.8	3728.2	3712.4
37.5°	3896.4	3897.8	3909.3	3915.0	3940.9	3974.0	3999.8	4008.5	4028.6	4025.7	4009.9
40°	4283.0	4290.2	4294.5	4303.1	4330.4	4362.0	4389.3	4393.6	4415.2	4410.9	4390.8
42.5°	4729.9	4732.8	4757.3	4770.2	4796.1	4811.9	4846.4	4850.7	4876.5	4865.0	4842.1
45°	5231.5	5257.4	5280.4	5306.3	5333.6	5352.3	5379.6	5373.8	5391.1	5373.8	5360.9
47.5°	5759.0	5777.7	5829.4	5869.7	5914.2	5930.0	5968.8	5951.6	5968.8	5944.4	5940.1
50°	6339.7	6372.7	6417.3	6463.3	6510.7	6536.6	6586.9	6565.3	6588.3	6565.3	6552.4
52.5°	6911.7	6920.3	7018.0	7085.6	7151.7	7181.9	7212.1	7202.0	7203.4	7202.0	7189.1
55°	7454.9	7475.1	7572.8	7664.8	7779.8	7864.6	7916.3	7910.6	7897.6	7884.7	7863.1
57.5°	8067.2	8087.3	8199.4	8313.0	8443.8	8564.5	8669.4	8777.2	8818.9	8830.4	8783.0
60°	8895.1	8893.6	9043.1	9181.1	9367.9	9547.6	9777.5	10011.8	10280.6	10405.6	10240.3
62.5°	9737.3	9771.8	9987.4	10231.7	10616.9	10992.0	11416.0	11832.8	12258.2	12604.6	12236.6
65°	9636.7	9768.9	10089.4	10642.7	11354.2	12199.3	13113.4	14080.6	14954.5	15555.2	14881.2
67.5°	8351.8	8540.1	8866.3	9538.9	10428.6	11647.4	13182.3	15095.3	17318.7	18393.8	17061.4
70°	6053.6	6266.4	6608.4	7265.2	8146.3	9304.7	10971.9	13268.6	16212.0	17295.7	15828.3
72.5°	3012.4	3127.4	3338.7	3756.9	4423.8	5363.8	6875.7	9083.3	11687.6	12682.2	11341.2
75°	1023.3	1076.5	1112.4	1249.0	1460.2	1829.6	2581.3	3971.1	6058.0	7262.4	5971.7
77.5°	590.7	592.1	616.6	641.0	676.9	717.2	817.8	1073.6	1856.9	2637.3	1921.6
80°	382.3	380.9	401.0	419.7	444.1	464.2	470.0	497.3	573.5	679.8	608.0
82.5°	198.3	222.8	267.3	291.8	337.8	346.4	334.9	324.8	343.5	356.4	365.1
85°	109.2	94.9	142.3	184.0	204.1	207.0	207.0	195.5	202.7	198.3	215.6
87.5°	50.3	46.0	56.1	90.5	96.3	81.9	86.2	76.2	54.6	53.2	60.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5	3114.5
2.5°	3100.1	3101.6	3101.6	3105.9	3107.3	3110.2	3113.1	3114.5
5°	3075.7	3080.0	3077.1	3081.4	3081.4	3084.3	3084.3	3085.7
7.5°	3039.8	3044.1	3044.1	3044.1	3042.6	3046.9	3046.9	3046.9
10°	3002.4	3005.3	3003.8	3001.0	2998.1	3002.4	3001.0	2999.5
12.5°	2990.9	2983.7	2978.0	2975.1	2969.3	2970.8	2966.5	2966.5
15°	2998.1	2985.1	2975.1	2970.8	2965.0	2962.1	2959.3	2960.7
17.5°	3016.8	3001.0	2988.0	2980.8	2973.6	2969.3	2963.6	2965.0
20°	3049.8	3031.1	3012.4	2998.1	2985.1	2978.0	2973.6	2972.2
22.5°	3098.7	3071.4	3044.1	3022.5	3005.3	2995.2	2990.9	2988.0
25°	3154.7	3124.6	3092.9	3068.5	3051.3	3038.3	3029.7	3029.7
27.5°	3225.2	3200.7	3172.0	3143.2	3127.4	3114.5	3108.7	3105.9
30°	3343.0	3320.0	3297.0	3269.7	3249.6	3236.7	3226.6	3218.0
32.5°	3493.9	3475.2	3456.6	3436.4	3417.8	3400.5	3384.7	3377.5
35°	3706.6	3692.3	3679.3	3656.3	3649.1	3639.1	3630.5	3623.3
37.5°	3999.8	3994.1	3994.1	3969.6	3963.9	3959.6	3951.0	3952.4
40°	4385.0	4390.8	4383.6	4375.0	4370.6	4359.1	4359.1	4369.2
42.5°	4840.6	4844.9	4860.7	4846.4	4862.2	4847.8	4839.2	4846.4
45°	5369.5	5385.3	5416.9	5402.6	5412.6	5388.2	5358.0	5359.5
47.5°	5963.1	5977.5	5990.4	5980.3	5981.8	5941.5	5901.3	5891.2
50°	6579.7	6585.4	6592.6	6578.2	6581.1	6536.6	6490.6	6492.0
52.5°	7189.1	7216.4	7245.1	7206.3	7197.7	7147.4	7082.7	7056.8
55°	7886.1	7924.9	7891.9	7824.3	7756.8	7689.2	7604.4	7590.1
57.5°	8745.6	8679.5	8576.0	8448.1	8354.7	8259.8	8173.6	8137.6
60°	9941.4	9692.7	9505.9	9316.2	9196.9	9080.5	8966.9	8949.7
62.5°	11631.6	11201.8	10829.6	10437.2	10116.7	9866.6	9666.9	9610.8
65°	13750.0	12733.9	11852.9	11030.8	10316.5	9777.5	9438.3	9288.9
67.5°	14661.3	12654.9	11144.3	9977.3	9043.1	8390.6	8024.1	7841.6
70°	12883.4	10494.7	8851.9	7683.5	6832.6	6137.0	5805.0	5609.5
72.5°	8863.4	6676.0	5279.0	4308.8	3629.0	3046.9	2817.0	2799.7
75°	3979.7	2635.9	1816.7	1399.9	1178.5	1024.8	977.3	941.4
77.5°	1113.9	823.5	734.4	687.0	641.0	587.8	567.7	572.0
80°	541.8	511.7	491.5	461.4	419.7	375.1	355.0	363.6
82.5°	359.3	355.0	367.9	346.4	286.0	242.9	204.1	186.8
85°	218.5	221.3	225.6	227.1	192.6	135.1	92.0	103.5
87.5°	86.2	99.2	107.8	112.1	104.9	64.7	51.7	53.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)