

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: P193437

Luminaire Tested: **GLEON-AF-09-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-5WQ-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45738 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G5

Input Watts (W): 501  
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

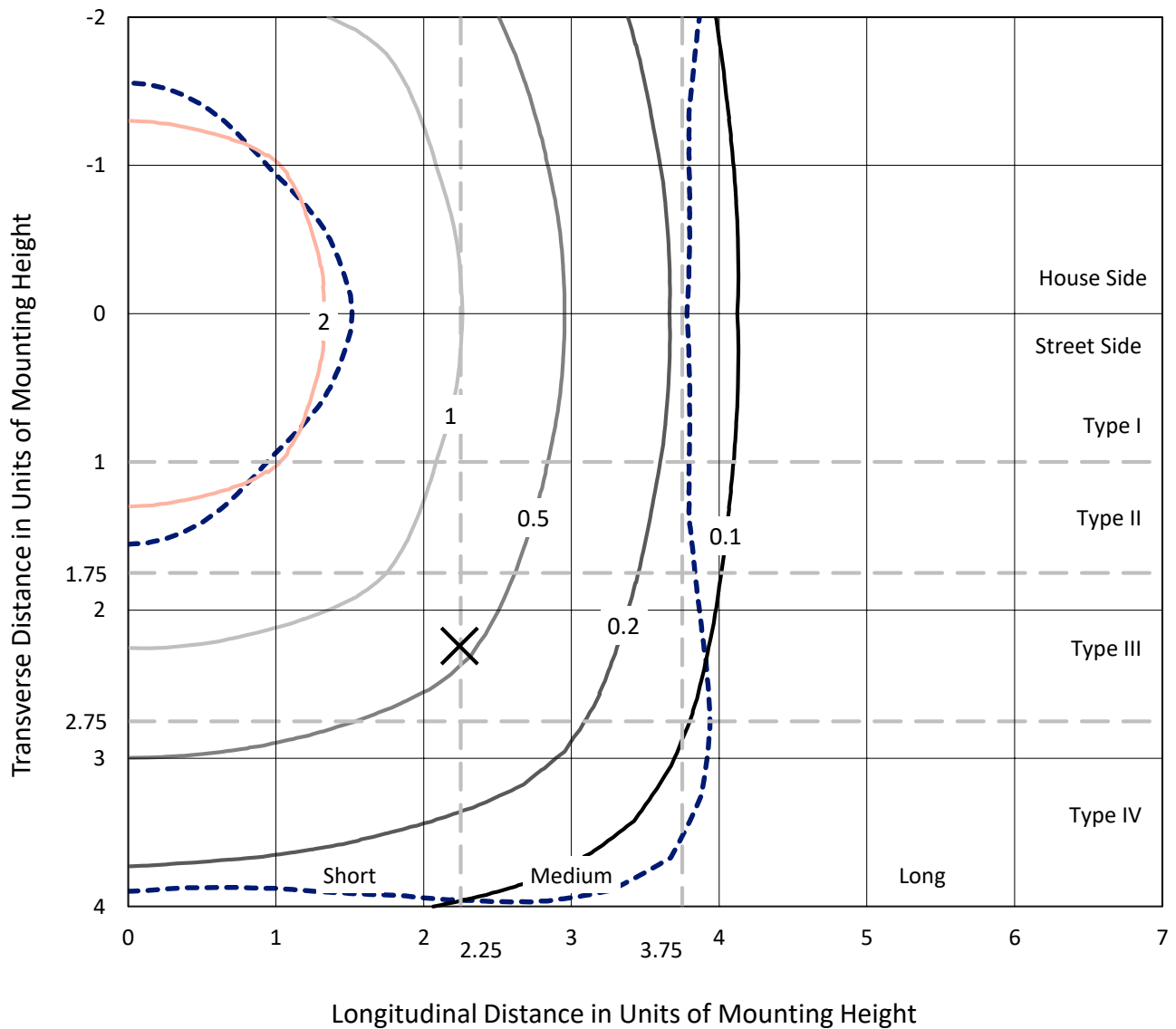


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### Iso-Footcandle Lines of Horizontal Illumination

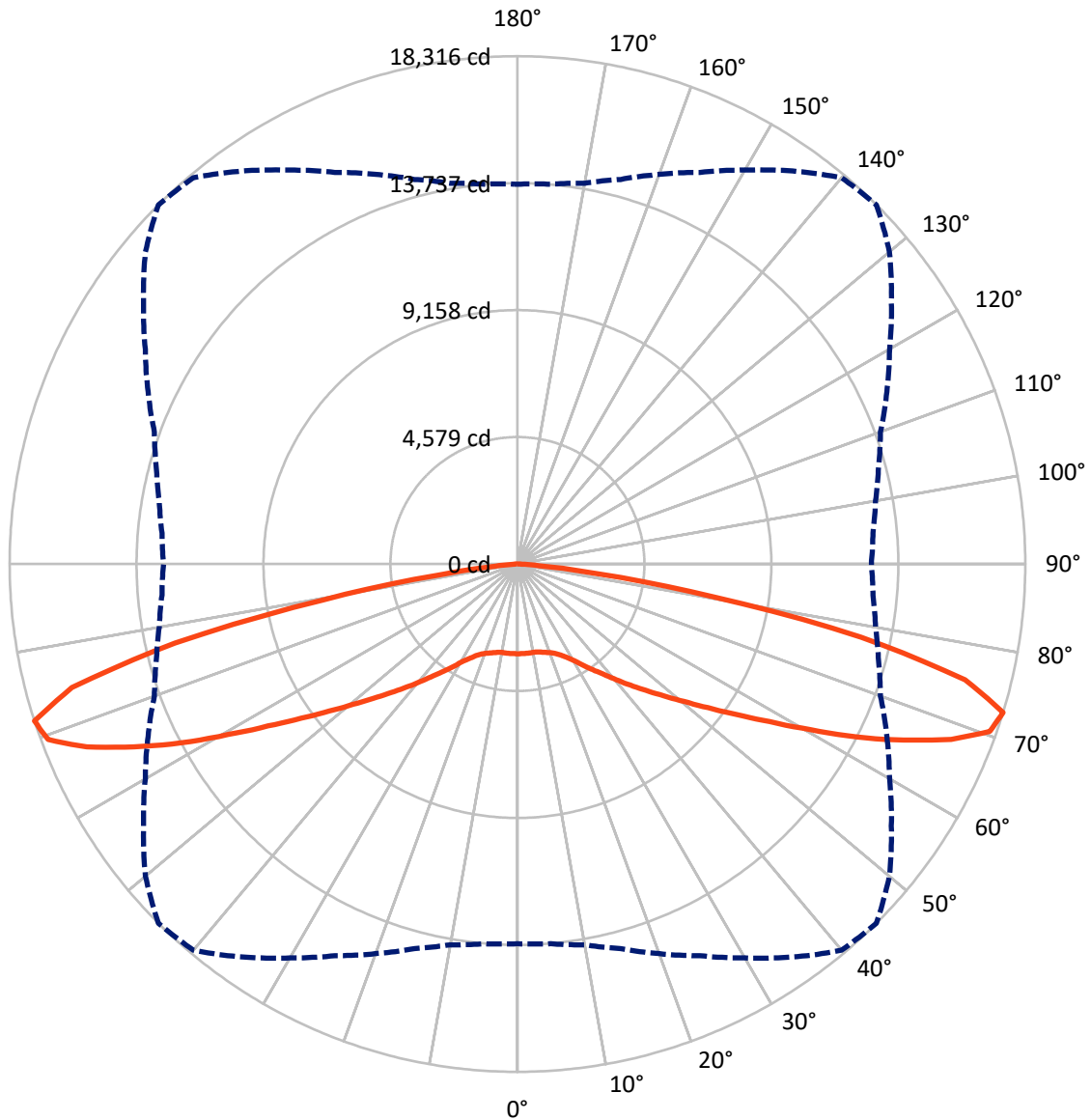
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22869.0	0.0	22869.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22869.0	0.0	22869.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45738.0	0.0	45738.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.3	0.7
10°-20°	939.3	2.1
20°-30°	1716.5	3.8
30°-40°	2959.6	6.5
40°-50°	5059.4	11.1
50°-60°	8200.7	17.9
60°-70°	13604.6	29.7
70°-80°	11982.5	26.2
80°-90°	966.1	2.1
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°	45738.0	100.0
0°-180°	45738.0	100.0



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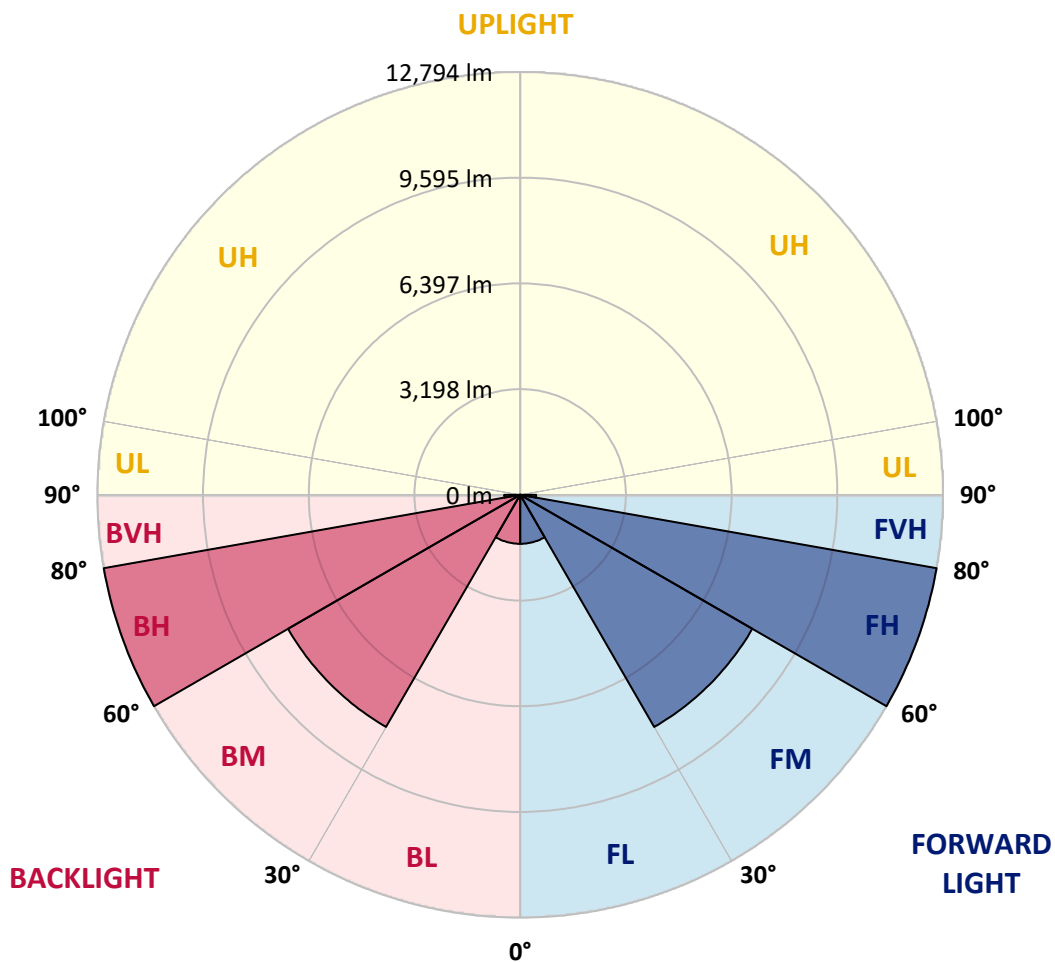
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1482.6	3.2			
FM	(30°-60°)	8109.8	17.7			
FH	(60°-80°)	12793.5	28.0			G5
FVH	(80°-90°)	483.1	1.1			G3/500
BL	(0°-30°)	1482.6	3.2	B3/2500		
BM	(30°-60°)	8109.8	17.7	B4/8500		
BH	(60°-80°)	12793.5	28.0	B5		G5
BVH	(80°-90°)	483.1	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3239.0	3239.0	3239.0	3239.0	3239.0	3239.0	3239.0	3239.0	3239.0	3239.0	3239.0
2.5°	3239.0	3241.1	3243.2	3241.1	3241.1	3239.0	3236.9	3239.0	3236.9	3232.7	3234.8
5°	3249.4	3253.6	3253.6	3249.4	3251.5	3249.4	3245.3	3247.4	3243.2	3236.9	3236.9
7.5°	3262.0	3264.1	3264.1	3259.9	3262.0	3257.8	3253.6	3251.5	3247.4	3239.0	3232.7
10°	3280.9	3283.0	3280.9	3276.7	3276.7	3270.4	3259.9	3255.7	3247.4	3234.8	3228.5
12.5°	3301.9	3304.0	3301.9	3297.7	3295.6	3285.1	3276.7	3270.4	3264.1	3253.6	3243.2
15°	3331.3	3335.5	3331.3	3322.9	3316.6	3308.2	3304.0	3306.1	3308.2	3299.8	3289.3
17.5°	3385.8	3387.9	3381.6	3362.7	3354.3	3345.9	3345.9	3350.1	3356.4	3352.2	3341.8
20°	3486.5	3480.2	3465.5	3442.4	3432.0	3417.3	3415.2	3417.3	3417.3	3415.2	3406.8
22.5°	3612.4	3608.2	3589.3	3559.9	3545.2	3536.8	3524.3	3513.8	3511.7	3505.4	3497.0
25°	3763.4	3761.3	3738.2	3713.1	3702.6	3692.1	3681.6	3666.9	3654.3	3639.6	3631.2
27.5°	3956.4	3948.0	3914.4	3901.9	3887.2	3880.9	3866.2	3849.4	3838.9	3820.0	3809.6
30°	4168.3	4168.3	4141.0	4136.8	4136.8	4122.1	4105.3	4076.0	4057.1	4038.2	4031.9
32.5°	4380.1	4382.2	4355.0	4363.4	4369.7	4380.1	4384.3	4373.9	4361.3	4359.2	4346.6
35°	4686.4	4678.0	4650.8	4657.1	4655.0	4652.9	4652.9	4675.9	4680.1	4684.3	4659.2
37.5°	5066.1	5066.1	5038.8	5038.8	5026.3	5013.7	4996.9	5011.6	5034.7	5040.9	5024.2
40°	5500.4	5515.0	5481.5	5479.4	5483.6	5443.7	5424.8	5447.9	5462.6	5487.8	5468.9
42.5°	6012.2	6001.7	5968.2	5964.0	5940.9	5928.3	5911.5	5930.4	5953.5	5970.3	5976.6
45°	6503.1	6494.7	6456.9	6456.9	6433.9	6423.4	6431.8	6463.2	6473.7	6496.8	6519.9
47.5°	6987.7	6977.2	6952.0	6962.5	6964.6	6983.5	7010.8	7040.1	7069.5	7101.0	7111.4
50°	7482.8	7484.9	7457.6	7482.8	7514.2	7566.7	7640.1	7688.3	7749.2	7789.0	7801.6
52.5°	7933.8	7942.2	7971.5	8030.3	8093.2	8196.0	8321.9	8439.3	8540.0	8607.2	8603.0
55°	8475.0	8487.6	8558.9	8659.6	8762.4	8917.6	9104.3	9312.0	9479.8	9576.3	9515.5
57.5°	9167.3	9194.5	9274.3	9410.6	9563.7	9765.1	10021.1	10333.6	10593.8	10723.8	10625.2
60°	10117.6	10134.3	10230.8	10381.9	10566.5	10816.1	11158.1	11577.6	11944.7	12116.7	12003.5
62.5°	11369.9	11401.4	11479.0	11632.1	11820.9	12104.1	12521.6	13046.0	13503.4	13742.5	13486.6
65°	12865.6	12966.3	13031.4	13186.6	13362.8	13662.8	14099.1	14661.3	15152.2	15309.5	15013.8
67.5°	14346.7	14434.8	14548.1	14726.4	14904.7	15242.4	15647.3	16192.7	16731.8	16874.5	16415.1
70°	14994.9	15045.2	15221.4	15464.8	15806.7	16205.3	16673.1	17285.6	17952.7	18070.2	17487.0
72.5°	13696.4	13746.7	13943.9	14357.2	14952.9	15586.5	16402.5	17302.4	18183.5	18315.7	17512.2
75°	10358.8	10277.0	10568.6	11116.1	11919.5	12802.7	13943.9	15234.0	16507.4	16673.1	15714.4
77.5°	5353.5	5343.0	5563.3	6243.0	7201.7	8206.5	9463.1	10921.0	12167.1	12670.5	11890.2
80°	1508.3	1525.1	1630.0	1967.7	2527.8	3253.6	4235.4	5601.1	6620.6	7140.8	6704.5
82.5°	591.6	637.7	677.6	740.5	813.9	920.9	1229.3	1829.3	2454.4	2932.7	2401.9
85°	211.9	226.6	321.0	379.7	386.0	407.0	463.6	541.2	652.4	778.3	639.8
87.5°	79.7	88.1	102.8	169.9	167.8	153.1	186.7	195.1	146.8	134.3	165.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3239.0	3239.0	3239.0	3239.0	3239.0	3239.0	3239.0	3239.0
2.5°	3230.6	3232.7	3232.7	3234.8	3236.9	3236.9	3241.1	3241.1
5°	3232.7	3232.7	3228.5	3230.6	3228.5	3228.5	3230.6	3230.6
7.5°	3228.5	3226.4	3222.2	3220.1	3215.9	3215.9	3215.9	3215.9
10°	3222.2	3220.1	3215.9	3213.8	3211.7	3211.7	3211.7	3211.7
12.5°	3239.0	3232.7	3228.5	3226.4	3226.4	3226.4	3226.4	3226.4
15°	3283.0	3268.3	3257.8	3257.8	3259.9	3264.1	3264.1	3268.3
17.5°	3337.6	3320.8	3310.3	3301.9	3306.1	3312.4	3316.6	3320.8
20°	3402.6	3394.2	3379.5	3371.1	3371.1	3379.5	3383.7	3385.8
22.5°	3492.8	3486.5	3480.2	3469.7	3469.7	3473.9	3482.3	3482.3
25°	3627.0	3622.9	3618.7	3610.3	3608.2	3608.2	3612.4	3616.6
27.5°	3794.9	3797.0	3792.8	3790.7	3784.4	3782.3	3788.6	3786.5
30°	4019.3	4029.8	4040.3	4031.9	4021.4	4015.1	4008.8	4000.5
32.5°	4323.5	4310.9	4302.5	4287.8	4269.0	4252.2	4239.6	4224.9
35°	4610.9	4589.9	4581.5	4594.1	4592.0	4581.5	4566.9	4554.3
37.5°	4963.3	4959.1	4963.3	4986.4	4982.2	4992.7	4963.3	4961.2
40°	5408.1	5412.3	5441.6	5468.9	5483.6	5498.3	5481.5	5464.7
42.5°	5924.1	5922.0	5932.5	5970.3	5995.4	6012.2	5976.6	5972.4
45°	6469.5	6454.8	6463.2	6494.7	6519.9	6538.8	6498.9	6498.9
47.5°	7069.5	7044.3	7017.0	7052.7	7067.4	7080.0	7048.5	7038.0
50°	7738.7	7686.2	7627.5	7642.2	7642.2	7638.0	7598.1	7596.0
52.5°	8506.5	8410.0	8303.0	8263.1	8240.1	8214.9	8145.7	8112.1
55°	9389.6	9244.9	9077.1	8974.3	8919.7	8850.5	8735.1	8703.7
57.5°	10421.7	10195.2	9905.7	9779.8	9658.1	9544.9	9416.9	9381.2
60°	11644.7	11311.2	10927.3	10694.4	10562.3	10453.2	10321.0	10314.7
62.5°	13008.3	12481.7	12047.5	11837.7	11741.2	11644.7	11518.9	11535.7
65°	14394.9	13845.3	13438.3	13268.4	13178.2	13098.5	12972.6	12991.5
67.5°	15762.7	15257.1	14810.3	14636.2	14535.5	14434.8	14321.5	14340.4
70°	16744.4	16117.2	15613.7	15227.7	14986.5	14713.8	14537.6	14493.5
72.5°	16463.3	15496.2	14697.0	13931.3	13482.4	13117.4	12869.8	12762.8
75°	14248.1	12926.5	11898.6	10958.8	10430.1	10000.1	9687.5	9492.4
77.5°	10581.2	9095.9	7881.3	6798.9	5943.0	5368.2	4963.3	4701.1
80°	5792.0	4405.3	3220.1	2263.5	1663.5	1382.4	1220.9	1143.3
82.5°	1804.1	1164.3	858.0	740.5	688.1	658.7	610.5	532.8
85°	574.8	503.5	467.8	446.8	425.8	371.3	255.9	232.9
87.5°	222.4	228.7	226.6	214.0	218.2	157.3	125.9	111.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)