

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: P192617

Luminaire Tested: **GLEON-AF-09-LED-E1-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192617
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35716.8 lumens
Efficiency: N/A
Efficacy: 123.2 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 - G4

Input Watts (W): 290
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



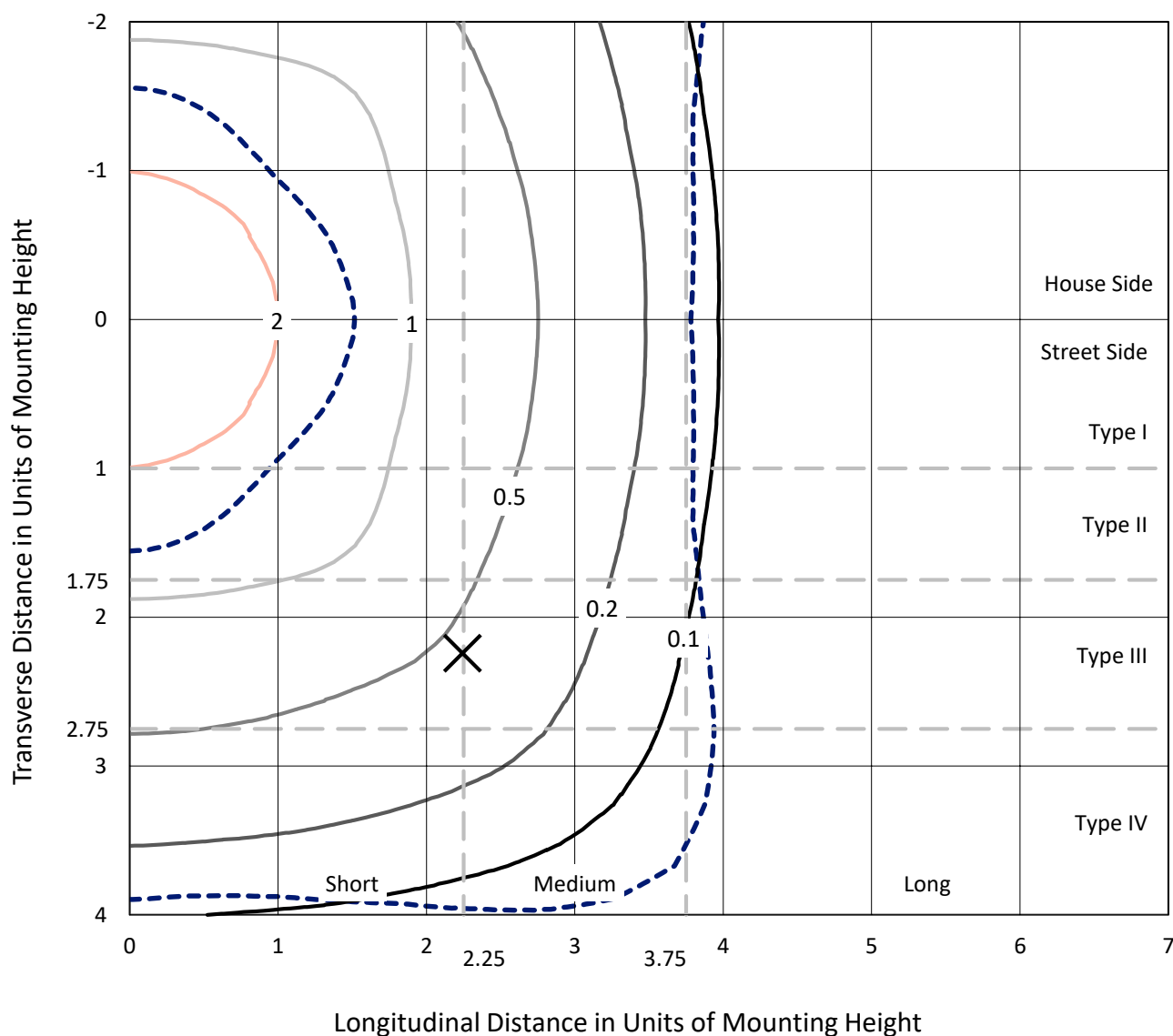
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

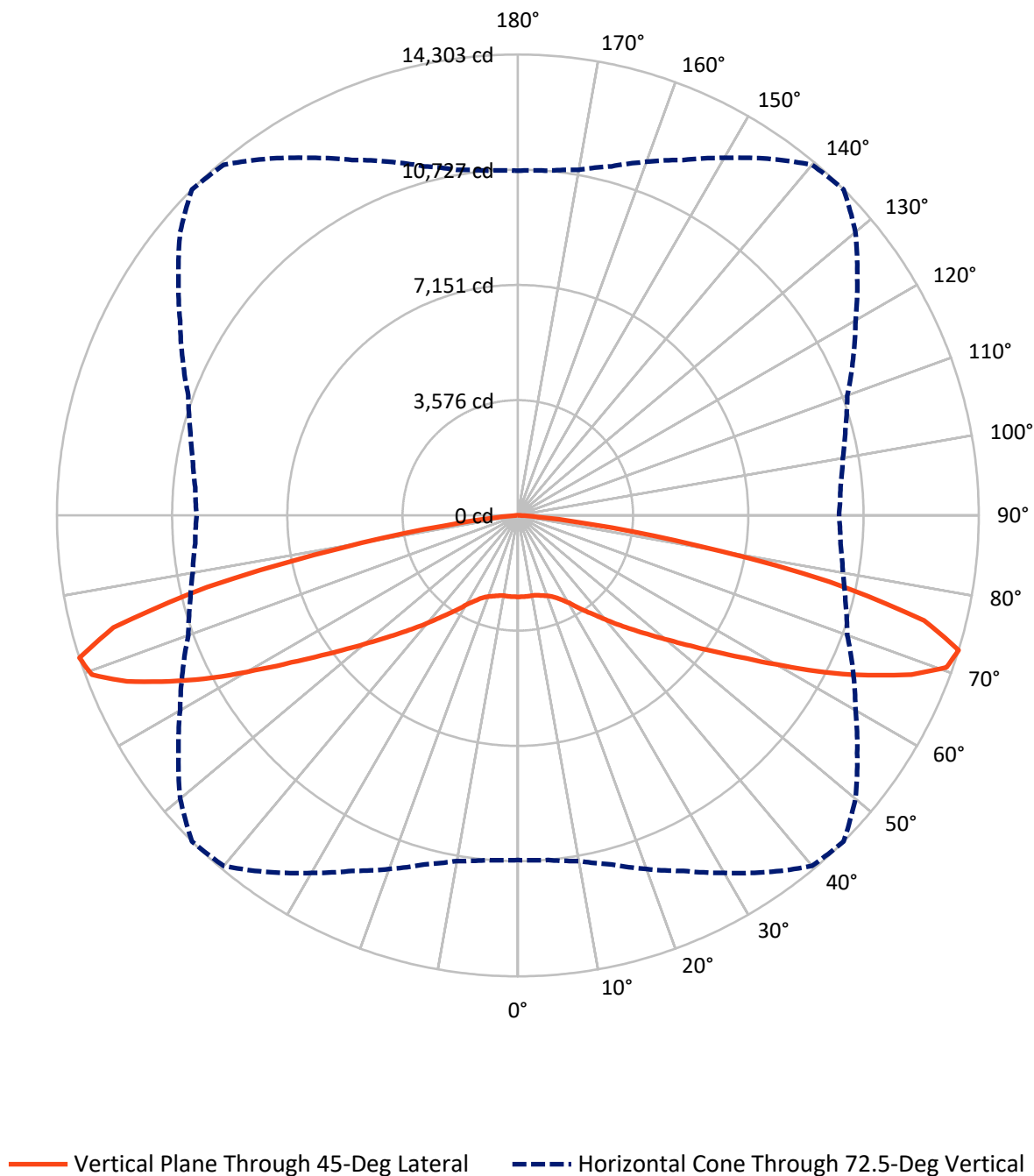


Based on 30 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17858.4	0.0	17858.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17858.4	0.0	17858.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	35716.8	0.0	35716.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	0.7
10°-20°	733.5	2.1
20°-30°	1340.4	3.8
30°-40°	2311.2	6.5
40°-50°	3950.9	11.1
50°-60°	6403.9	17.9
60°-70°	10623.8	29.7
70°-80°	9357.1	26.2
80°-90°	754.4	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°	35716.8	100.0
0°-180°	35716.8	100.0

Coefficient of Utilization



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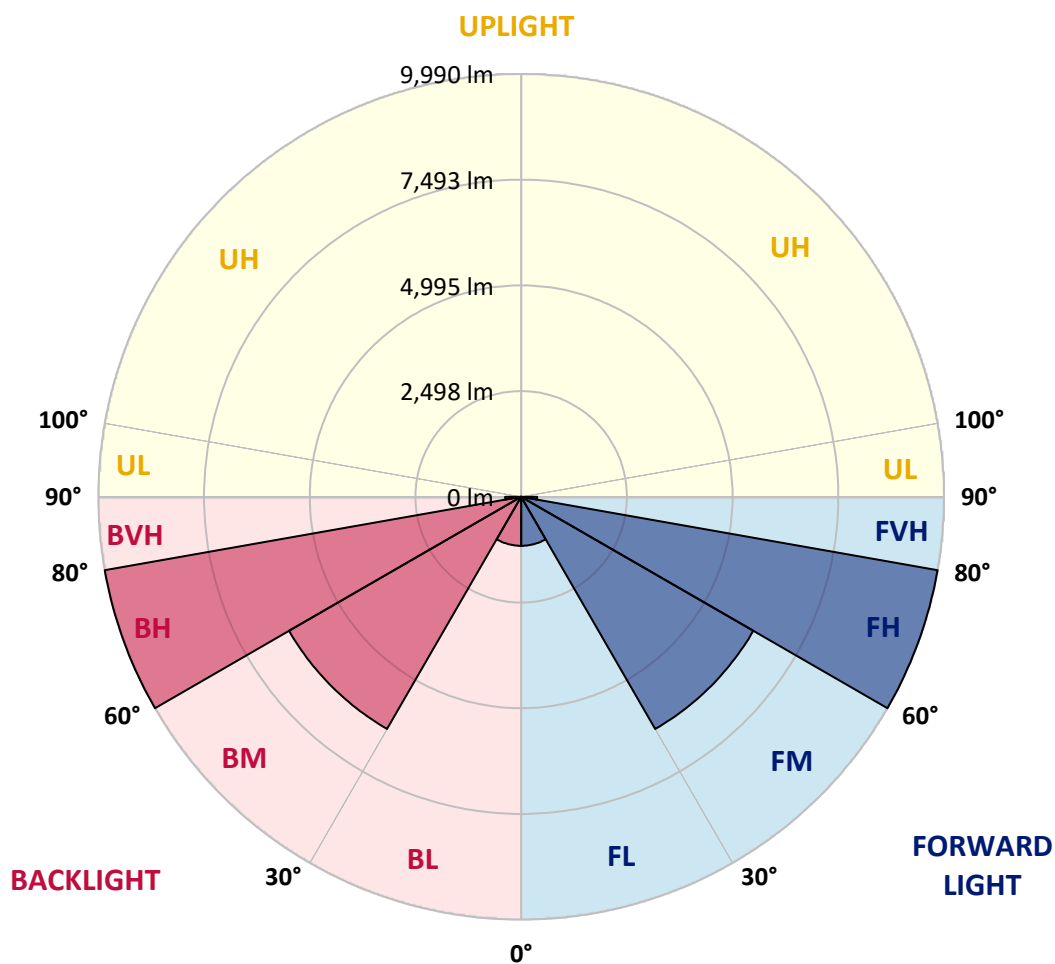
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1157.7	3.2			
FM	(30°-60°)	6333.0	17.7			
FH	(60°-80°)	9990.5	28.0			G4/12000
FVH	(80°-90°)	377.2	1.1			G3/500
BL	(0°-30°)	1157.7	3.2	B3/2500		
BM	(30°-60°)	6333.0	17.7	B4/8500		
BH	(60°-80°)	9990.5	28.0	B5		G4/12000
BVH	(80°-90°)	377.2	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2529.4	2529.4	2529.4	2529.4	2529.4	2529.4	2529.4	2529.4	2529.4	2529.4	2529.4
2.5°	2529.4	2531.0	2532.6	2531.0	2531.0	2529.4	2527.7	2529.4	2527.7	2524.4	2526.1
5°	2537.5	2540.9	2540.9	2537.5	2539.1	2537.5	2534.3	2535.9	2532.6	2527.7	2527.7
7.5°	2547.4	2549.0	2549.0	2545.7	2547.4	2544.1	2540.9	2539.1	2535.9	2529.4	2524.4
10°	2562.0	2563.7	2562.0	2558.8	2558.8	2553.8	2545.7	2542.5	2535.9	2526.1	2521.1
12.5°	2578.4	2580.0	2578.4	2575.1	2573.5	2565.3	2558.8	2553.8	2549.0	2540.9	2532.6
15°	2601.4	2604.6	2601.4	2594.8	2589.9	2583.3	2580.0	2581.7	2583.3	2576.8	2568.5
17.5°	2644.0	2645.6	2640.7	2625.9	2619.4	2612.8	2612.8	2616.1	2621.0	2617.8	2609.5
20°	2722.6	2717.8	2706.3	2688.3	2680.0	2668.5	2666.9	2668.5	2668.5	2666.9	2660.4
22.5°	2820.8	2817.6	2802.8	2780.0	2768.5	2762.0	2752.1	2743.9	2742.3	2737.4	2730.8
25°	2938.8	2937.2	2919.2	2899.5	2891.3	2883.2	2874.9	2863.4	2853.7	2842.2	2835.6
27.5°	3089.6	3083.0	3056.7	3046.9	3035.5	3030.7	3019.2	3006.0	2997.8	2983.1	2974.9
30°	3255.1	3255.1	3233.7	3230.5	3230.5	3219.0	3205.8	3182.9	3168.2	3153.4	3148.6
32.5°	3420.5	3422.1	3400.8	3407.4	3412.2	3420.5	3423.7	3415.6	3405.7	3404.1	3394.2
35°	3659.6	3653.1	3631.8	3636.7	3635.0	3633.4	3633.4	3651.5	3654.7	3658.0	3638.4
37.5°	3956.2	3956.2	3934.9	3934.9	3925.0	3915.2	3902.0	3913.5	3931.5	3936.5	3923.4
40°	4295.2	4306.7	4280.4	4278.8	4282.1	4251.1	4236.3	4254.3	4265.7	4285.3	4270.6
42.5°	4695.0	4686.7	4660.6	4657.2	4639.2	4629.5	4616.3	4631.1	4649.1	4662.2	4667.1
45°	5078.3	5071.7	5042.2	5042.2	5024.2	5016.0	5022.5	5047.1	5055.3	5073.4	5091.4
47.5°	5456.7	5448.5	5428.9	5437.1	5438.7	5453.4	5474.7	5497.6	5520.6	5545.1	5553.3
50°	5843.3	5845.0	5823.6	5843.3	5867.9	5908.8	5966.1	6003.8	6051.4	6082.5	6092.3
52.5°	6195.5	6202.0	6224.9	6270.8	6320.0	6400.3	6498.5	6590.3	6668.9	6721.3	6718.1
55°	6618.2	6628.0	6683.7	6762.3	6842.6	6963.7	7109.6	7271.7	7402.9	7478.1	7430.6
57.5°	7158.7	7180.0	7242.2	7348.8	7468.3	7625.6	7825.4	8069.6	8272.7	8374.2	8297.2
60°	7900.9	7913.8	7989.2	8107.2	8251.4	8446.3	8713.3	9040.9	9327.7	9462.0	9373.5
62.5°	8878.7	8903.3	8963.9	9083.6	9231.0	9452.1	9778.1	10187.7	10544.8	10731.6	10531.7
65°	10046.8	10125.4	10176.2	10297.4	10435.1	10669.2	11010.0	11449.1	11832.3	11955.2	11724.3
67.5°	11203.3	11272.2	11360.6	11499.9	11639.1	11902.8	12219.0	12644.9	13065.9	13177.3	12818.6
70°	11709.6	11748.8	11886.5	12076.4	12343.4	12654.7	13020.0	13498.3	14019.3	14111.1	13655.7
72.5°	10695.5	10734.8	10888.8	11211.5	11676.7	12171.5	12808.7	13511.4	14199.6	14302.7	13675.3
75°	8089.2	8025.3	8253.0	8680.5	9308.1	9997.7	10888.8	11896.2	12890.6	13020.0	12271.5
77.5°	4180.6	4172.4	4344.3	4875.1	5623.8	6408.5	7389.7	8528.2	9501.3	9894.4	9285.1
80°	1177.9	1190.9	1272.9	1536.6	1974.0	2540.9	3307.4	4373.8	5170.0	5576.3	5235.4
82.5°	461.9	498.0	529.2	578.3	635.6	719.2	960.0	1428.4	1916.6	2290.2	1875.7
85°	165.4	176.9	250.6	296.5	301.4	317.8	362.0	422.7	509.4	607.8	499.7
87.5°	62.3	68.9	80.3	132.6	131.0	119.6	145.8	152.3	114.7	104.9	129.4
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°	2529.4	2529.4	2529.4	2529.4	2529.4	2529.4	2529.4	2529.4
2.5°	2522.8	2524.4	2524.4	2526.1	2527.7	2527.7	2531.0	2531.0
5°	2524.4	2524.4	2521.1	2522.8	2521.1	2521.1	2522.8	2522.8
7.5°	2521.1	2519.5	2516.2	2514.6	2511.4	2511.4	2511.4	2511.4
10°	2516.2	2514.6	2511.4	2509.6	2508.0	2508.0	2508.0	2508.0
12.5°	2529.4	2524.4	2521.1	2519.5	2519.5	2519.5	2519.5	2519.5
15°	2563.7	2552.3	2544.1	2544.1	2545.7	2549.0	2549.0	2552.3
17.5°	2606.3	2593.2	2585.0	2578.4	2581.7	2586.6	2589.9	2593.2
20°	2657.0	2650.5	2639.0	2632.5	2632.5	2639.0	2642.3	2644.0
22.5°	2727.5	2722.6	2717.8	2709.5	2709.5	2712.8	2719.4	2719.4
25°	2832.3	2829.0	2825.8	2819.2	2817.6	2817.6	2820.8	2824.2
27.5°	2963.4	2965.1	2961.8	2960.2	2955.3	2953.6	2958.5	2956.9
30°	3138.7	3146.8	3155.1	3148.6	3140.3	3135.4	3130.5	3123.9
32.5°	3376.2	3366.4	3359.8	3348.4	3333.6	3320.5	3310.7	3299.2
35°	3600.6	3584.2	3577.7	3587.5	3585.9	3577.7	3566.2	3556.4
37.5°	3875.9	3872.5	3875.9	3893.9	3890.6	3898.8	3875.9	3874.3
40°	4223.2	4226.4	4249.4	4270.6	4282.1	4293.6	4280.4	4267.3
42.5°	4626.1	4624.5	4632.7	4662.2	4681.9	4695.0	4667.1	4663.8
45°	5052.0	5040.5	5047.1	5071.7	5091.4	5106.1	5075.0	5075.0
47.5°	5520.6	5500.8	5479.6	5507.4	5518.9	5528.7	5504.2	5496.0
50°	6043.1	6002.1	5956.4	5967.7	5967.7	5964.5	5933.5	5931.8
52.5°	6642.8	6567.3	6483.8	6452.7	6434.8	6415.0	6361.0	6334.8
55°	7332.4	7219.3	7088.3	7008.0	6965.4	6911.4	6821.3	6796.7
57.5°	8138.4	7961.4	7735.3	7637.1	7542.0	7453.5	7353.7	7325.9
60°	9093.4	8832.9	8533.1	8351.3	8248.1	8162.9	8059.7	8054.8
62.5°	10158.2	9747.0	9407.9	9244.1	9168.7	9093.4	8995.1	9008.2
65°	11241.0	10811.9	10494.1	10361.3	10290.9	10228.7	10130.3	10145.0
67.5°	12309.0	11914.2	11565.3	11429.4	11350.7	11272.2	11183.7	11198.4
70°	13075.7	12585.9	12192.8	11891.3	11703.0	11490.0	11352.4	11317.9
72.5°	12856.2	12101.0	11476.9	10879.0	10528.4	10243.4	10050.1	9966.5
75°	11126.3	10094.3	9291.6	8557.7	8144.9	7809.1	7565.0	7412.7
77.5°	8262.8	7103.1	6154.6	5309.2	4640.9	4192.1	3875.9	3671.1
80°	4522.9	3440.1	2514.6	1767.6	1299.1	1079.6	953.4	892.7
82.5°	1408.8	909.1	670.0	578.3	537.3	514.4	476.7	416.1
85°	448.8	393.2	365.3	349.0	332.5	290.0	199.8	181.8
87.5°	173.6	178.5	176.9	167.0	170.3	122.8	98.4	86.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)