

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: P191705

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191705
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-07-LED-E1-5WQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48648 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 448
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

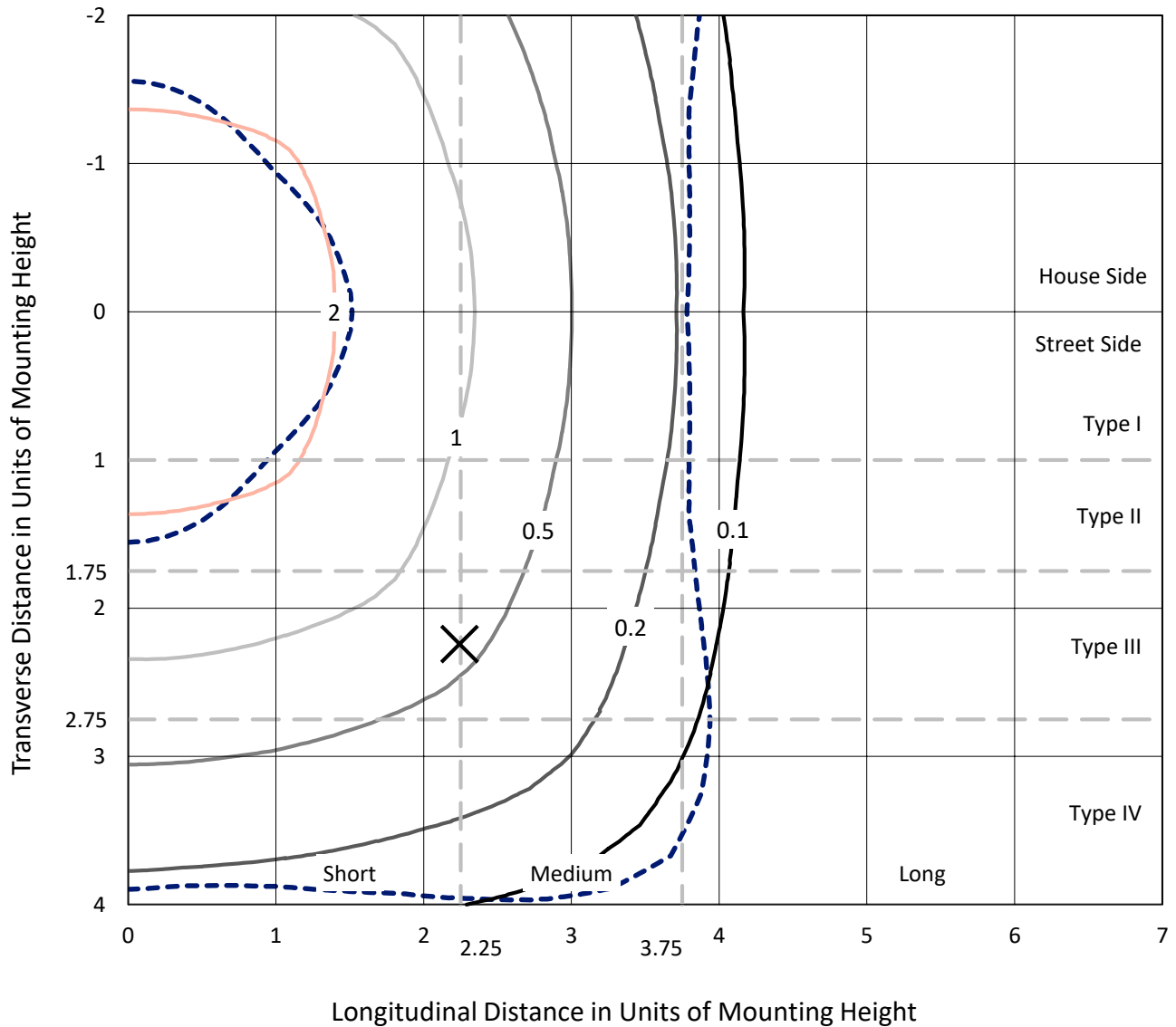


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Iso-Footcandle Lines of Horizontal Illumination

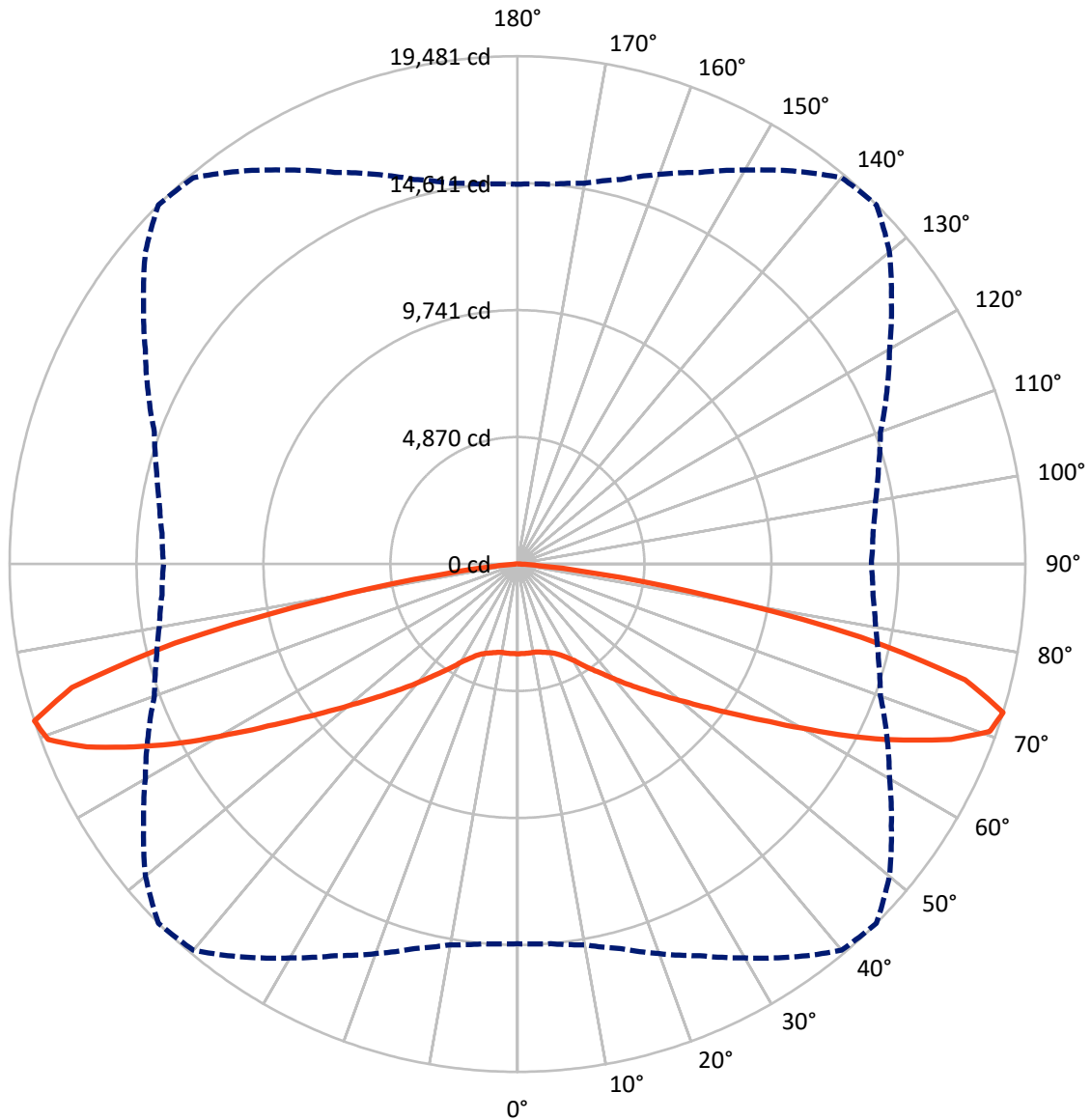
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 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
House Side	Lumens	24324.0	0.0	24324.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24324.0	0.0	24324.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48648.0	0.0	48648.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	0.7
10°-20°	999.1	2.1
20°-30°	1825.7	3.8
30°-40°	3147.9	6.5
40°-50°	5381.3	11.1
50°-60°	8722.4	17.9
60°-70°	14470.2	29.7
70°-80°	12744.8	26.2
80°-90°	1027.6	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°	48648.0	100.0
0°-180°	48648.0	100.0



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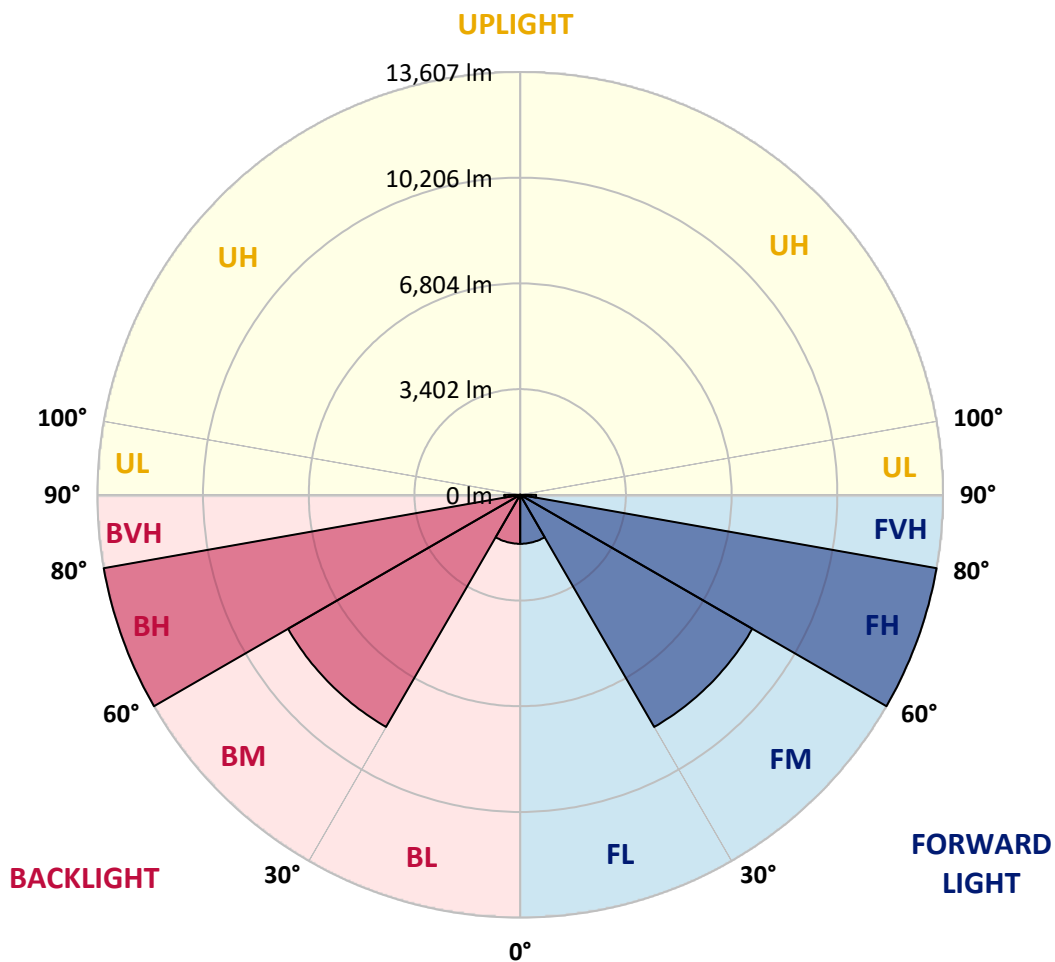
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1576.9	3.2			
FM	(30°-60°)	8625.8	17.7			
FH	(60°-80°)	13607.5	28.0			G5
FVH	(80°-90°)	513.8	1.1			G4/750
BL	(0°-30°)	1576.9	3.2	B3/2500		
BM	(30°-60°)	8625.8	17.7	B5		
BH	(60°-80°)	13607.5	28.0	B5		G5
BVH	(80°-90°)	513.8	1.1			G4/750
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°	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0
2.5°	3445.0	3447.3	3449.5	3447.3	3447.3	3445.0	3442.8	3445.0	3442.8	3438.3	3440.6
5°	3456.2	3460.7	3460.7	3456.2	3458.4	3456.2	3451.7	3454.0	3449.5	3442.8	3442.8
7.5°	3469.6	3471.8	3471.8	3467.3	3469.6	3465.1	3460.7	3458.4	3454.0	3445.0	3438.3
10°	3489.7	3491.9	3489.7	3485.2	3485.2	3478.5	3467.3	3462.9	3454.0	3440.6	3433.9
12.5°	3512.0	3514.2	3512.0	3507.5	3505.3	3494.1	3485.2	3478.5	3471.8	3460.7	3449.5
15°	3543.2	3547.7	3543.2	3534.3	3527.6	3518.7	3514.2	3516.4	3518.7	3509.7	3498.6
17.5°	3601.2	3603.5	3596.8	3576.7	3567.8	3558.8	3558.8	3563.3	3570.0	3565.5	3554.4
20°	3708.3	3701.6	3686.0	3661.5	3650.3	3634.7	3632.5	3634.7	3634.7	3632.5	3623.5
22.5°	3842.2	3837.7	3817.7	3786.4	3770.8	3761.9	3748.5	3737.3	3735.1	3728.4	3719.5
25°	4002.8	4000.6	3976.1	3949.3	3938.1	3927.0	3915.8	3900.2	3886.8	3871.2	3862.3
27.5°	4208.1	4199.2	4163.5	4150.1	4134.5	4127.8	4112.2	4094.3	4083.2	4063.1	4051.9
30°	4433.5	4433.5	4404.5	4400.0	4400.0	4384.4	4366.5	4335.3	4315.2	4295.1	4288.4
32.5°	4658.8	4661.1	4632.1	4641.0	4647.7	4658.8	4663.3	4652.1	4638.7	4636.5	4623.1
35°	4984.6	4975.7	4946.7	4953.4	4951.1	4948.9	4948.9	4973.4	4977.9	4982.4	4955.6
37.5°	5388.4	5388.4	5359.4	5359.4	5346.1	5332.7	5314.8	5330.4	5355.0	5361.7	5343.8
40°	5850.3	5865.9	5830.2	5828.0	5832.5	5790.1	5770.0	5794.5	5810.1	5836.9	5816.8
42.5°	6394.7	6383.6	6347.9	6343.4	6318.9	6305.5	6287.6	6307.7	6332.3	6350.1	6356.8
45°	6916.8	6907.9	6867.8	6867.8	6843.2	6832.1	6841.0	6874.4	6885.6	6910.1	6934.7
47.5°	7432.3	7421.1	7394.3	7405.5	7407.7	7427.8	7456.8	7488.0	7519.3	7552.7	7563.9
50°	7958.8	7961.1	7932.1	7958.8	7992.3	8048.1	8126.2	8177.5	8242.2	8284.6	8298.0
52.5°	8438.5	8447.5	8478.7	8541.2	8608.1	8717.5	8851.3	8976.3	9083.4	9154.8	9150.3
55°	9014.2	9027.6	9103.5	9210.6	9319.9	9485.0	9683.6	9904.5	10083.0	10185.6	10120.9
57.5°	9750.5	9779.5	9864.3	10009.3	10172.2	10386.4	10658.6	10991.1	11267.8	11406.1	11301.2
60°	10761.3	10779.1	10881.8	11042.4	11238.8	11504.3	11868.0	12314.2	12704.7	12887.6	12767.2
62.5°	12093.3	12126.8	12209.3	12372.2	12573.0	12874.3	13318.3	13876.1	14362.5	14616.9	14344.6
65°	13684.2	13791.3	13860.5	14025.6	14213.0	14532.1	14996.2	15594.1	16116.2	16283.6	15969.0
67.5°	15259.4	15353.2	15473.6	15663.3	15853.0	16212.2	16642.8	17222.9	17796.4	17948.1	17459.5
70°	15948.9	16002.5	16189.9	16448.7	16812.4	17236.3	17733.9	18385.4	19094.9	19219.9	18599.6
72.5°	14567.8	14621.3	14831.1	15270.6	15904.3	16578.1	17446.1	18403.3	19340.4	19481.0	18626.4
75°	11017.9	10930.8	11241.0	11823.3	12677.9	13617.3	14831.1	16203.3	17557.6	17733.9	16714.2
77.5°	5694.1	5683.0	5917.2	6640.2	7659.8	8728.6	10065.1	11615.8	12941.2	13476.7	12646.7
80°	1604.3	1622.1	1733.7	2092.9	2688.6	3460.7	4504.9	5957.4	7041.8	7595.1	7131.0
82.5°	629.2	678.3	720.7	787.6	865.7	979.5	1307.5	1945.6	2610.6	3119.3	2554.8
85°	225.4	241.0	341.4	403.9	410.5	432.9	493.1	575.7	693.9	827.8	680.5
87.5°	84.8	93.7	109.3	180.7	178.5	162.9	198.6	207.5	156.2	142.8	176.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0
2.5°	3436.1	3438.3	3438.3	3440.6	3442.8	3442.8	3447.3	3447.3
5°	3438.3	3438.3	3433.9	3436.1	3433.9	3433.9	3436.1	3436.1
7.5°	3433.9	3431.6	3427.2	3425.0	3420.5	3420.5	3420.5	3420.5
10°	3427.2	3425.0	3420.5	3418.3	3416.0	3416.0	3416.0	3416.0
12.5°	3445.0	3438.3	3433.9	3431.6	3431.6	3431.6	3431.6	3431.6
15°	3491.9	3476.3	3465.1	3465.1	3467.3	3471.8	3471.8	3476.3
17.5°	3549.9	3532.1	3520.9	3512.0	3516.4	3523.1	3527.6	3532.1
20°	3619.1	3610.1	3594.5	3585.6	3585.6	3594.5	3599.0	3601.2
22.5°	3715.0	3708.3	3701.6	3690.5	3690.5	3694.9	3703.9	3703.9
25°	3857.8	3853.4	3848.9	3840.0	3837.7	3837.7	3842.2	3846.7
27.5°	4036.3	4038.5	4034.1	4031.9	4025.2	4022.9	4029.6	4027.4
30°	4275.1	4286.2	4297.4	4288.4	4277.3	4270.6	4263.9	4255.0
32.5°	4598.6	4585.2	4576.3	4560.7	4540.6	4522.7	4509.3	4493.7
35°	4904.3	4882.0	4873.0	4886.4	4884.2	4873.0	4857.4	4844.0
37.5°	5279.1	5274.7	5279.1	5303.7	5299.2	5310.4	5279.1	5276.9
40°	5752.1	5756.6	5787.8	5816.8	5832.5	5848.1	5830.2	5812.4
42.5°	6301.0	6298.8	6309.9	6350.1	6376.9	6394.7	6356.8	6352.3
45°	6881.1	6865.5	6874.4	6907.9	6934.7	6954.8	6912.4	6912.4
47.5°	7519.3	7492.5	7463.5	7501.4	7517.0	7530.4	7497.0	7485.8
50°	8231.0	8175.3	8112.8	8128.4	8128.4	8123.9	8081.6	8079.3
52.5°	9047.7	8945.0	8831.2	8788.9	8764.3	8737.5	8663.9	8628.2
55°	9987.0	9833.1	9654.6	9545.2	9487.2	9413.6	9290.9	9257.4
57.5°	11084.8	10843.8	10535.9	10402.0	10272.6	10152.1	10016.0	9978.1
60°	12385.6	12030.8	11622.5	11374.9	11234.3	11118.3	10977.7	10971.0
62.5°	13835.9	13275.9	12814.0	12590.9	12488.2	12385.6	12251.7	12269.6
65°	15310.8	14726.2	14293.3	14112.6	14016.6	13931.9	13798.0	13818.1
67.5°	16765.5	16227.8	15752.6	15567.4	15460.3	15353.2	15232.7	15252.8
70°	17809.8	17142.6	16607.1	16196.6	15940.0	15649.9	15462.5	15415.6
72.5°	17510.8	16482.2	15632.1	14817.7	14340.2	13951.9	13688.7	13574.9
75°	15154.6	13748.9	12655.6	11656.0	11093.7	10636.3	10303.9	10096.4
77.5°	11254.4	9674.7	8382.8	7231.4	6321.1	5709.7	5279.1	5000.2
80°	6160.5	4685.6	3425.0	2407.5	1769.4	1470.4	1298.6	1216.0
82.5°	1918.9	1238.3	912.6	787.6	731.8	700.6	649.3	566.7
85°	611.4	535.5	497.6	475.3	452.9	394.9	272.2	247.7
87.5°	236.5	243.2	241.0	227.6	232.0	167.3	133.9	118.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)