

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: P190905

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190905
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 49764.5 lumens
Efficiency: N/A
Efficacy: 111.1 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

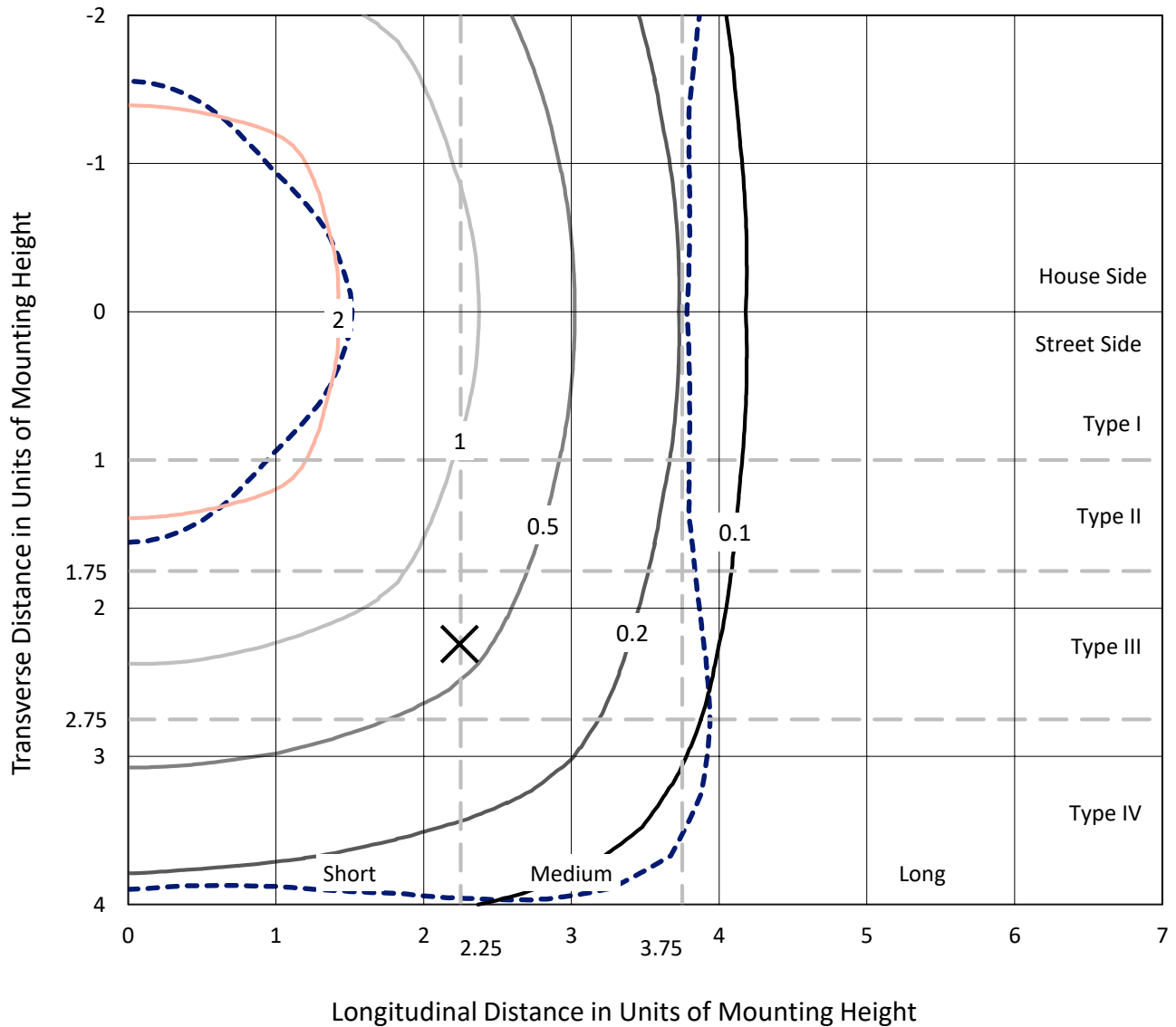


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Iso-Footcandle Lines of Horizontal Illumination

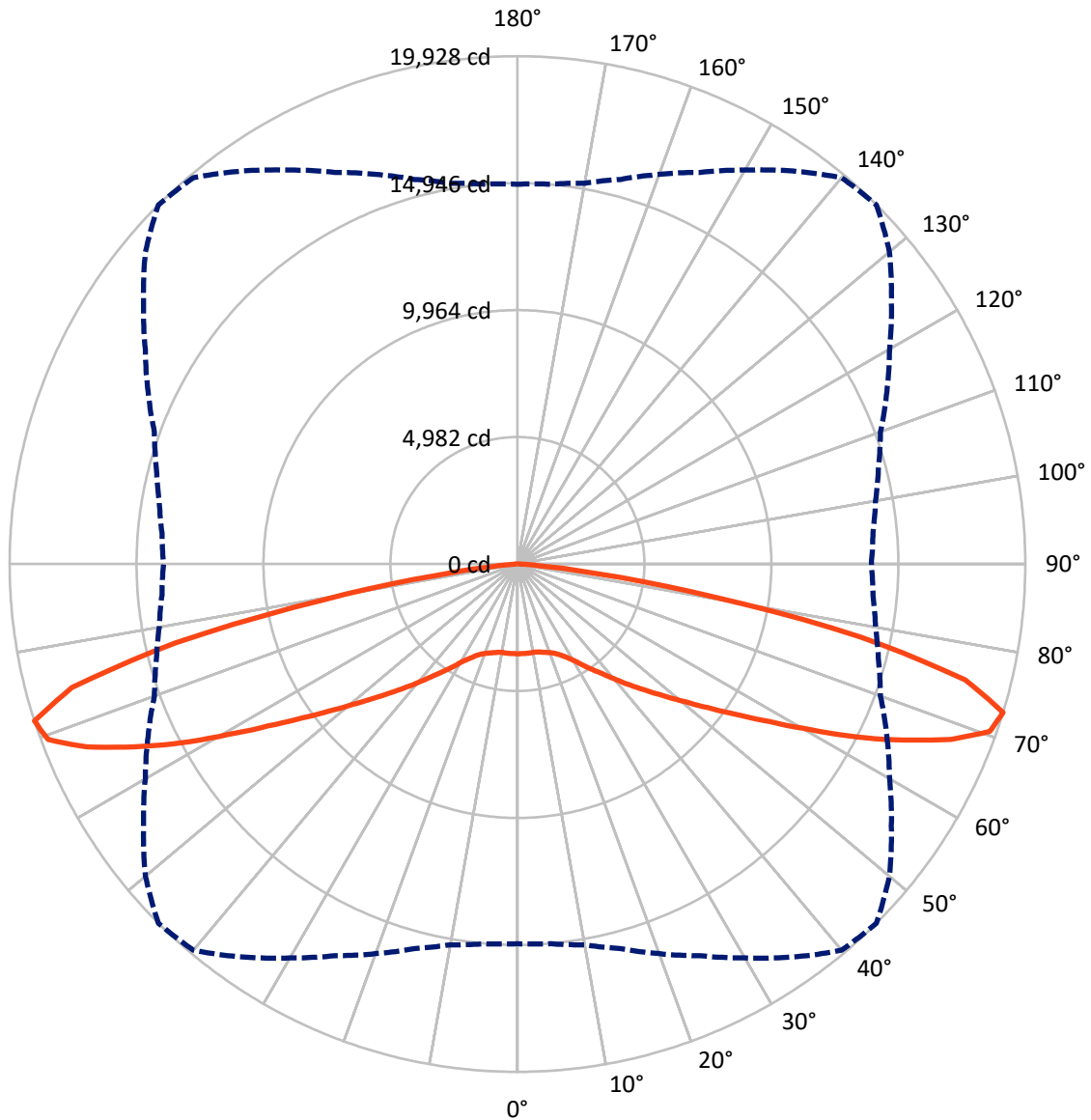
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 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	24882.3	0.0	24882.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24882.3	0.0	24882.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	49764.5	0.0	49764.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	0.7
10°-20°	1022.0	2.1
20°-30°	1867.6	3.8
30°-40°	3220.2	6.5
40°-50°	5504.8	11.1
50°-60°	8922.6	17.9
60°-70°	14802.3	29.7
70°-80°	13037.3	26.2
80°-90°	1051.2	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°	49764.5	100.0
0°-180°	49764.5	100.0



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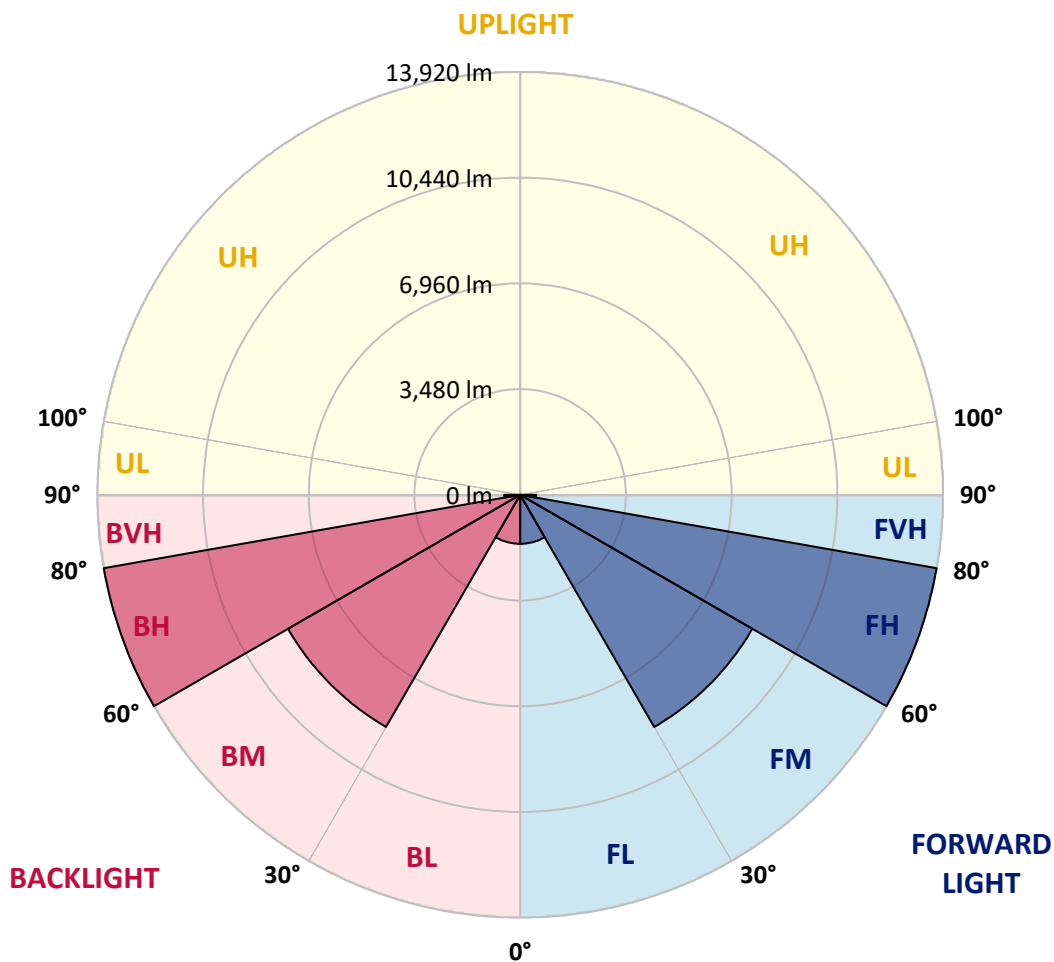
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1613.1	3.2			
FM	(30°-60°)	8823.8	17.7			
FH	(60°-80°)	13919.8	28.0			G5
FVH	(80°-90°)	525.6	1.1			G4/750
BL	(0°-30°)	1613.1	3.2	B3/2500		
BM	(30°-60°)	8823.8	17.7	B5		
BH	(60°-80°)	13919.8	28.0	B5		G5
BVH	(80°-90°)	525.6	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°	3524.1	3524.1	3524.1	3524.1	3524.1	3524.1	3524.1	3524.1	3524.1	3524.1	3524.1
2.5°	3524.1	3526.4	3528.7	3526.4	3526.4	3524.1	3521.8	3524.1	3521.8	3517.2	3519.6
5°	3535.5	3540.1	3540.1	3535.5	3537.8	3535.5	3530.9	3533.3	3528.7	3521.8	3521.8
7.5°	3549.2	3551.5	3551.5	3546.9	3549.2	3544.6	3540.1	3537.8	3533.3	3524.1	3517.2
10°	3569.8	3572.0	3569.8	3565.2	3565.2	3558.3	3546.9	3542.4	3533.3	3519.6	3512.7
12.5°	3592.6	3594.9	3592.6	3588.0	3585.7	3574.3	3565.2	3558.3	3551.5	3540.1	3528.7
15°	3624.5	3629.1	3624.5	3615.4	3608.6	3599.5	3594.9	3597.1	3599.5	3590.3	3578.9
17.5°	3683.9	3686.2	3679.3	3658.8	3649.7	3640.5	3640.5	3645.1	3651.9	3647.3	3636.0
20°	3793.4	3786.6	3770.6	3745.5	3734.1	3718.1	3715.9	3718.1	3718.1	3715.9	3706.7
22.5°	3930.4	3925.8	3905.3	3873.3	3857.3	3848.2	3834.5	3823.1	3820.8	3814.0	3804.9
25°	4094.7	4092.4	4067.4	4039.9	4028.5	4017.1	4005.7	3989.7	3976.0	3960.0	3950.9
27.5°	4304.7	4295.6	4259.1	4245.3	4229.4	4222.5	4206.6	4188.3	4176.9	4156.4	4144.9
30°	4535.3	4535.3	4505.6	4501.0	4501.0	4485.0	4466.7	4434.8	4414.2	4393.7	4386.8
32.5°	4765.7	4768.1	4738.4	4747.5	4754.4	4765.7	4770.3	4758.9	4745.2	4742.9	4729.2
35°	5099.0	5089.9	5060.2	5067.1	5064.7	5062.5	5062.5	5087.5	5092.1	5096.8	5069.3
37.5°	5512.1	5512.1	5482.4	5482.4	5468.8	5455.1	5436.8	5452.7	5477.9	5484.8	5466.4
40°	5984.6	6000.5	5964.0	5961.8	5966.4	5923.0	5902.4	5927.5	5943.4	5970.9	5950.3
42.5°	6541.5	6530.1	6493.6	6489.0	6463.9	6450.2	6431.9	6452.5	6477.6	6495.8	6502.7
45°	7075.5	7066.4	7025.4	7025.4	7000.3	6988.9	6998.0	7032.2	7043.6	7068.7	7093.9
47.5°	7602.9	7591.4	7564.0	7575.5	7577.7	7598.3	7627.9	7659.9	7691.9	7726.0	7737.5
50°	8141.5	8143.8	8114.1	8141.5	8175.7	8232.8	8312.7	8365.2	8431.4	8474.7	8488.4
52.5°	8632.2	8641.4	8673.3	8737.2	8805.7	8917.6	9054.4	9182.3	9291.9	9364.9	9360.3
55°	9221.1	9234.8	9312.4	9422.0	9533.8	9702.7	9905.8	10131.8	10314.4	10419.4	10353.2
57.5°	9974.3	10003.9	10090.7	10239.0	10405.7	10624.8	10903.2	11243.4	11526.4	11667.9	11560.6
60°	11008.3	11026.5	11131.5	11295.8	11496.7	11768.3	12140.4	12596.8	12996.3	13183.4	13060.2
62.5°	12370.9	12405.1	12489.5	12656.2	12861.6	13169.8	13624.0	14194.6	14692.1	14952.4	14673.8
65°	13998.3	14107.8	14178.6	14347.5	14539.2	14865.6	15340.4	15952.0	16486.1	16657.3	16335.5
67.5°	15609.6	15705.6	15828.7	16022.8	16216.8	16584.3	17024.8	17618.2	18204.8	18360.0	17860.2
70°	16314.9	16369.8	16561.5	16826.2	17198.3	17631.9	18140.9	18807.4	19533.1	19661.0	19026.5
72.5°	14902.1	14956.9	15171.5	15621.1	16269.3	16958.6	17846.5	18825.7	19784.3	19928.1	19053.9
75°	11270.8	11181.7	11499.0	12094.7	12968.9	13929.8	15171.5	16575.2	17960.6	18140.9	17097.8
77.5°	5824.8	5813.4	6053.0	6792.6	7835.6	8928.9	10296.1	11882.4	13238.2	13786.0	12937.0
80°	1641.1	1659.3	1773.5	2140.9	2750.3	3540.1	4608.3	6094.1	7203.4	7769.4	7294.7
82.5°	643.6	693.9	737.2	805.7	885.6	1002.0	1337.5	1990.3	2670.5	3190.9	2613.4
85°	230.6	246.5	349.2	413.2	419.9	442.8	504.4	588.9	709.8	846.8	696.1
87.5°	86.7	95.9	111.8	184.8	182.6	166.6	203.2	212.3	159.8	146.1	180.3
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°	3524.1	3524.1	3524.1	3524.1	3524.1	3524.1	3524.1	3524.1
2.5°	3515.0	3517.2	3517.2	3519.6	3521.8	3521.8	3526.4	3526.4
5°	3517.2	3517.2	3512.7	3515.0	3512.7	3512.7	3515.0	3515.0
7.5°	3512.7	3510.4	3505.9	3503.6	3499.0	3499.0	3499.0	3499.0
10°	3505.9	3503.6	3499.0	3496.8	3494.4	3494.4	3494.4	3494.4
12.5°	3524.1	3517.2	3512.7	3510.4	3510.4	3510.4	3510.4	3510.4
15°	3572.0	3556.1	3544.6	3544.6	3546.9	3551.5	3551.5	3556.1
17.5°	3631.4	3613.2	3601.7	3592.6	3597.1	3604.0	3608.6	3613.2
20°	3702.2	3693.0	3677.0	3667.9	3667.9	3677.0	3681.6	3683.9
22.5°	3800.3	3793.4	3786.6	3775.2	3775.2	3779.7	3788.9	3788.9
25°	3946.3	3941.8	3937.2	3928.1	3925.8	3925.8	3930.4	3935.0
27.5°	4128.9	4131.2	4126.7	4124.4	4117.6	4115.2	4122.1	4119.8
30°	4373.2	4384.6	4396.0	4386.8	4375.5	4368.6	4361.8	4352.7
32.5°	4704.1	4690.4	4681.3	4665.4	4644.8	4626.5	4612.8	4596.8
35°	5016.9	4994.0	4984.8	4998.5	4996.3	4984.8	4968.9	4955.2
37.5°	5400.3	5395.8	5400.3	5425.4	5420.8	5432.3	5400.3	5398.0
40°	5884.1	5888.7	5920.6	5950.3	5966.4	5982.3	5964.0	5945.8
42.5°	6445.6	6443.4	6454.7	6495.8	6523.3	6541.5	6502.7	6498.1
45°	7039.0	7023.1	7032.2	7066.4	7093.9	7114.4	7071.0	7071.0
47.5°	7691.9	7664.5	7634.8	7673.6	7689.5	7703.2	7669.1	7657.6
50°	8419.9	8362.9	8299.0	8315.0	8315.0	8310.4	8267.1	8264.7
52.5°	9255.4	9150.3	9033.9	8990.6	8965.4	8938.0	8862.7	8826.2
55°	10216.2	10058.8	9876.2	9764.3	9704.9	9629.6	9504.1	9469.9
57.5°	11339.2	11092.7	10777.7	10640.7	10508.4	10385.1	10245.9	10207.1
60°	12669.9	12306.9	11889.2	11636.0	11492.1	11373.5	11229.6	11222.8
62.5°	14153.4	13580.6	13108.1	12879.9	12774.8	12669.9	12532.9	12551.2
65°	15662.2	15064.2	14621.3	14436.5	14338.3	14251.6	14114.7	14135.2
67.5°	17150.3	16600.2	16114.1	15924.7	15815.1	15705.6	15582.3	15602.9
70°	18218.5	17536.0	16988.2	16568.3	16305.8	16009.1	15817.4	15769.4
72.5°	17912.7	16860.5	15990.9	15157.8	14669.3	14272.1	14002.9	13886.5
75°	15502.4	14064.4	12946.1	11923.5	11348.3	10880.4	10540.4	10328.1
77.5°	11512.7	9896.7	8575.2	7397.4	6466.2	5840.7	5400.3	5115.0
80°	6301.9	4793.1	3503.6	2462.8	1810.0	1504.1	1328.4	1243.9
82.5°	1962.9	1266.7	933.5	805.7	748.6	716.7	664.2	579.7
85°	625.4	547.8	509.0	486.2	463.3	404.0	278.4	253.4
87.5°	241.9	248.8	246.5	232.8	237.3	171.1	137.0	121.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)