

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: P192756

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-RW-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47162.9 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 445
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



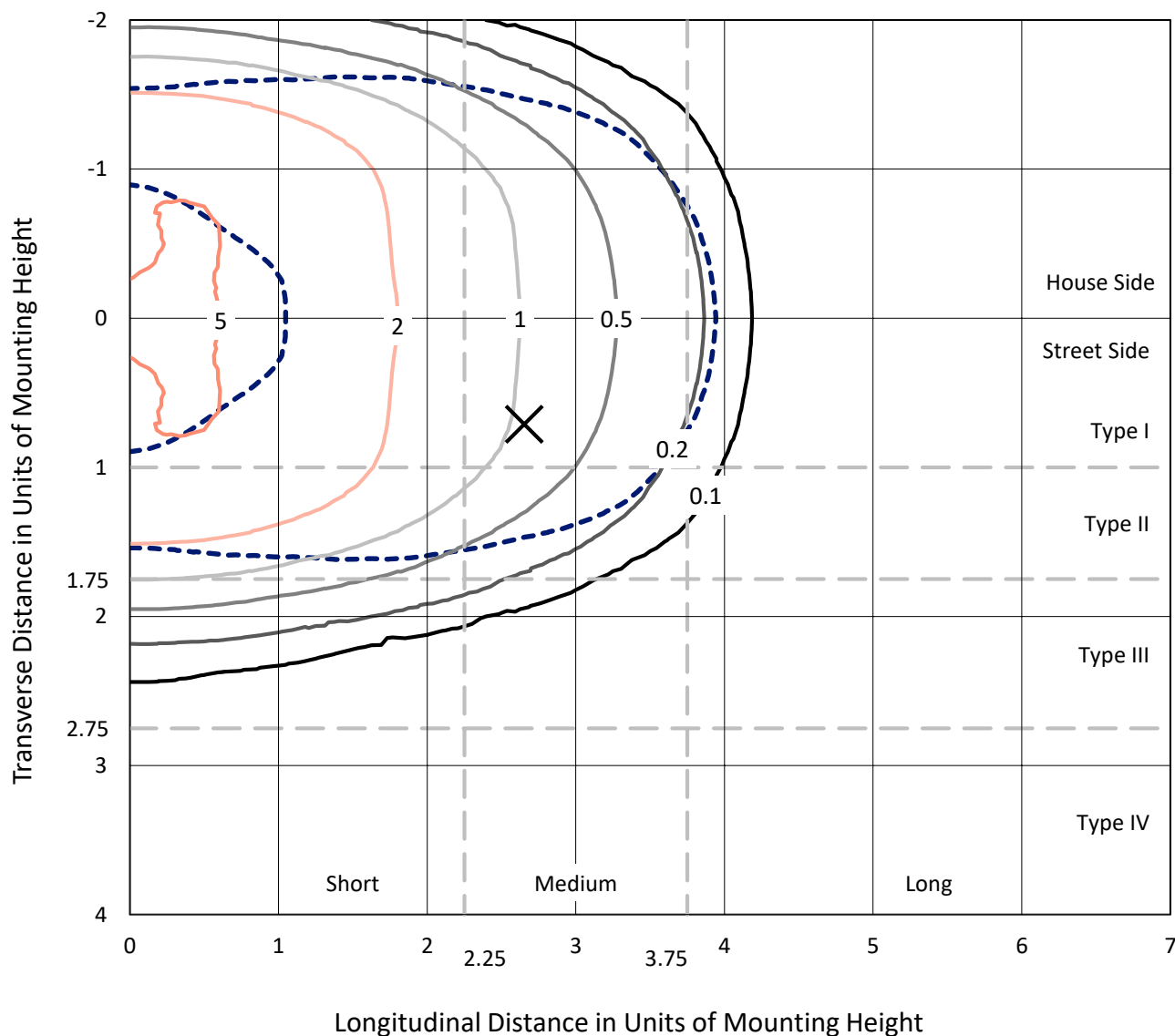
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

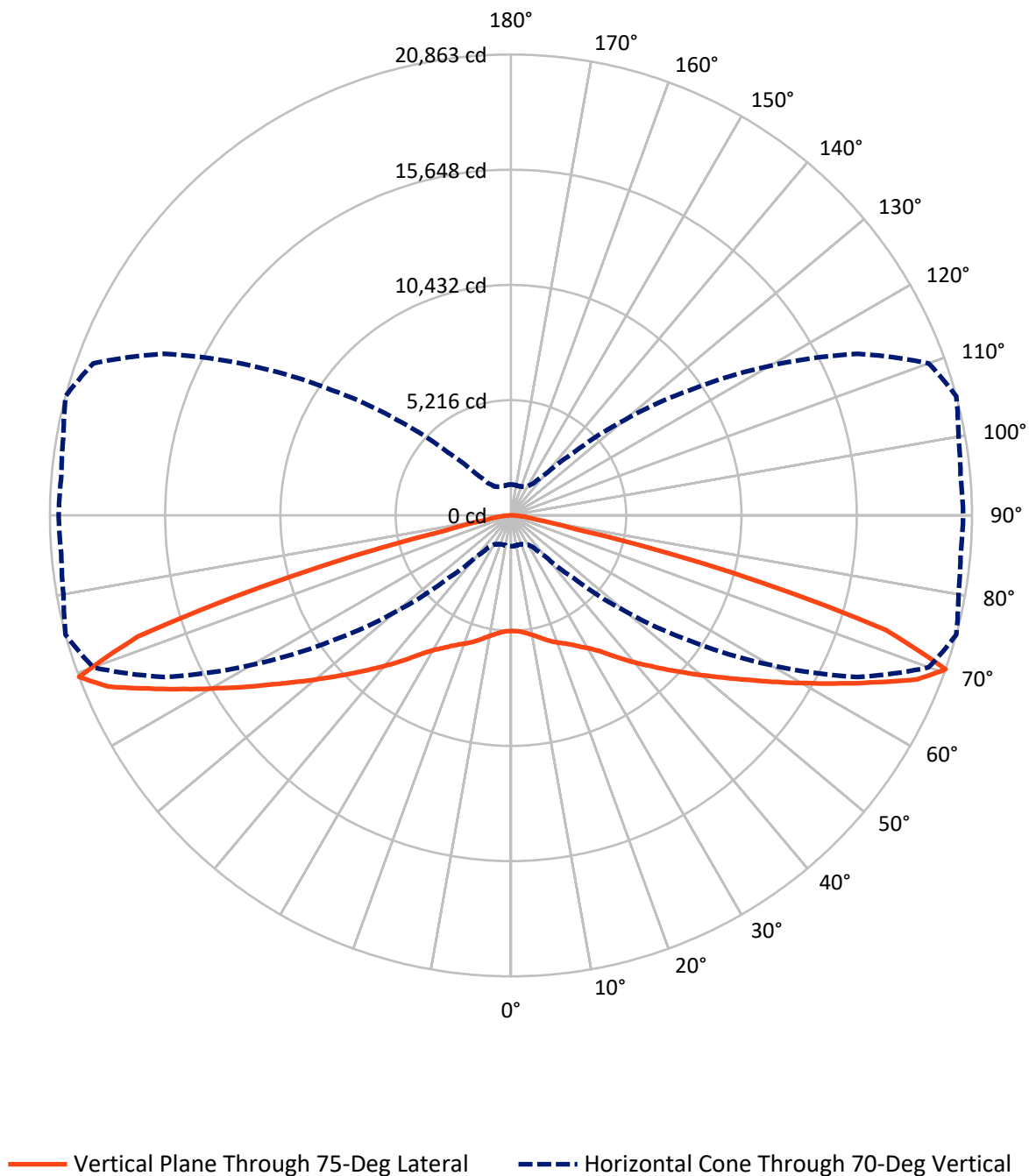


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23581.4	0.0	23581.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23581.4	0.0	23581.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	47162.9	0.0	47162.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.7	1.1
10°-20°	1559.0	3.3
20°-30°	2934.2	6.2
30°-40°	5196.0	11.0
40°-50°	8689.3	18.4
50°-60°	12108.6	25.7
60°-70°	11228.7	23.8
70°-80°	4475.0	9.5
80°-90°	470.4	1.0
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°	47162.9	100.0
0°-180°	47162.9	100.0

Coefficient of Utilization



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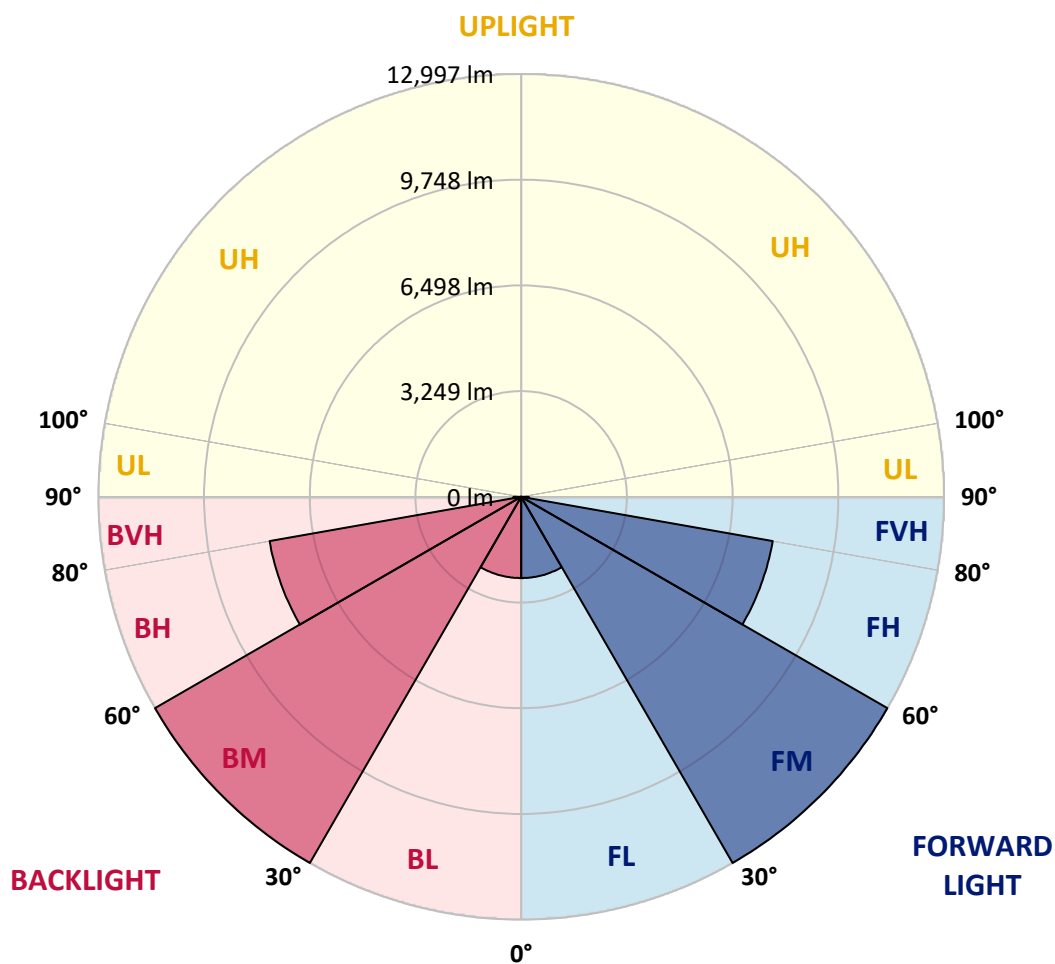
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2497.5	5.3			
FM	(30°-60°)	12996.9	27.6			
FH	(60°-80°)	7851.9	16.6			G4/12000
FVH	(80°-90°)	235.2	0.5			G3/500
BL	(0°-30°)	2497.5	5.3	B3/2500		
BM	(30°-60°)	12996.9	27.6	B5		
BH	(60°-80°)	7851.9	16.6	B5		G5
BVH	(80°-90°)	235.2	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5
2.5°	5222.6	5218.1	5222.6	5220.3	5224.8	5224.8	5229.2	5238.1	5238.1	5244.9	5242.6
5°	5171.2	5169.0	5175.7	5182.3	5189.2	5202.5	5215.8	5235.9	5251.5	5262.7	5273.8
7.5°	5070.9	5070.9	5079.9	5095.6	5111.0	5140.1	5171.2	5211.4	5251.5	5285.0	5314.0
10°	4988.4	4992.9	5004.1	5030.9	5057.6	5102.2	5144.6	5202.5	5258.2	5314.0	5358.5
12.5°	4939.5	4946.1	4966.2	5006.4	5050.9	5111.0	5175.7	5249.3	5311.7	5378.7	5423.2
15°	4955.0	4959.5	4988.4	5037.5	5095.6	5171.2	5258.2	5345.2	5418.7	5490.1	5550.2
17.5°	5042.0	5048.7	5082.0	5137.8	5198.0	5287.2	5380.8	5479.0	5570.2	5650.6	5724.1
20°	5198.0	5204.7	5247.0	5307.3	5378.7	5469.9	5563.6	5666.0	5768.7	5853.3	5935.8
22.5°	5418.7	5429.8	5469.9	5530.1	5610.4	5708.5	5819.9	5929.2	6027.2	6105.2	6178.8
25°	5708.5	5733.0	5770.8	5837.7	5922.4	6011.7	6131.9	6243.4	6337.0	6410.6	6464.1
27.5°	6118.6	6152.1	6181.1	6245.7	6328.1	6412.9	6533.1	6631.3	6720.4	6791.8	6831.9
30°	6662.5	6696.0	6724.9	6787.3	6863.1	6943.3	7057.0	7143.9	7199.6	7255.4	7253.1
32.5°	7322.2	7357.9	7369.1	7435.9	7514.0	7600.8	7703.5	7752.5	7797.1	7803.8	7763.6
35°	8060.0	8077.9	8122.5	8211.6	8300.8	8372.1	8470.3	8494.7	8494.7	8461.2	8372.1
37.5°	8869.2	8880.4	8942.8	9043.1	9134.4	9208.1	9274.9	9323.8	9299.4	9228.0	9078.7
40°	9756.3	9776.4	9865.6	9954.7	10057.2	10126.3	10197.7	10206.6	10182.1	10077.3	9874.5
42.5°	10603.4	10621.2	10710.3	10850.7	10984.5	11080.3	11147.1	11160.7	11082.6	10986.8	10734.8
45°	11332.3	11379.1	11494.9	11659.9	11853.9	11989.8	12081.2	12119.0	12049.9	11925.1	11633.2
47.5°	11909.6	11956.4	12121.3	12317.5	12558.1	12778.9	12930.4	13010.7	12992.8	12899.2	12580.4
50°	12333.0	12377.7	12556.0	12796.7	13077.6	13351.7	13610.3	13801.9	13868.9	13826.4	13534.5
52.5°	12382.2	12455.7	12665.2	12988.4	13353.8	13728.4	14096.2	14421.5	14642.3	14675.7	14459.5
55°	11697.8	11771.4	12061.1	12540.3	13084.3	13695.0	14283.5	14831.7	15266.4	15489.3	15375.6
57.5°	10084.0	10215.5	10520.9	11082.6	11882.8	12796.7	13735.1	14709.1	15594.0	16184.8	16298.4
60°	7727.9	7883.9	8191.6	8789.0	9680.6	10770.6	12023.2	13463.2	15025.7	16354.2	17147.7
62.5°	4957.3	5104.4	5427.6	5947.0	6673.7	7854.9	9199.1	10908.8	13008.4	15105.9	16996.2
65°	2547.7	2628.0	2797.4	3111.7	3677.8	4560.5	5766.3	7471.5	9872.2	12460.2	15192.8
67.5°	1613.8	1629.4	1667.3	1711.9	1856.8	2162.1	2723.9	3787.0	5762.0	8461.2	11659.9
70°	1395.4	1395.4	1377.5	1370.8	1388.6	1431.0	1517.9	1765.4	2431.8	4016.7	6724.9
72.5°	1277.2	1263.8	1232.7	1208.1	1203.7	1203.7	1221.5	1259.4	1366.4	1636.0	2632.5
75°	1176.9	1139.0	1096.6	1067.7	1056.5	1045.4	1043.2	1049.9	1072.2	1114.6	1257.1
77.5°	1054.4	1005.3	956.2	927.3	913.9	898.3	884.9	869.2	858.1	871.6	933.9
80°	907.2	851.4	813.6	795.7	782.4	760.1	731.2	704.4	679.8	675.4	713.3
82.5°	731.2	666.5	668.6	675.4	650.8	619.6	588.5	559.5	517.2	494.8	517.2
85°	590.6	557.2	541.6	584.0	548.4	501.5	452.5	401.2	334.4	280.9	305.4
87.5°	229.6	229.6	343.3	528.3	474.7	387.9	332.1	283.1	176.1	135.9	138.2
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°	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5	5231.5
2.5°	5240.4	5244.9	5242.6	5240.4	5240.4	5238.1	5240.4	5240.4
5°	5280.5	5291.7	5291.7	5296.2	5296.2	5298.3	5300.6	5298.3
7.5°	5340.7	5360.7	5374.1	5389.8	5392.0	5394.1	5398.6	5394.1
10°	5400.9	5441.0	5469.9	5498.9	5512.3	5516.7	5521.2	5521.2
12.5°	5476.6	5532.4	5583.7	5634.9	5659.4	5672.8	5672.8	5681.7
15°	5601.5	5657.2	5717.4	5786.5	5828.9	5851.2	5857.8	5857.8
17.5°	5777.5	5826.6	5877.8	5944.7	5998.3	6027.2	6034.0	6031.6
20°	5982.6	6029.5	6058.4	6100.8	6147.6	6181.1	6190.0	6190.0
22.5°	6216.7	6243.4	6247.9	6261.2	6299.2	6343.7	6363.8	6368.2
25°	6475.2	6482.0	6464.1	6464.1	6488.6	6531.0	6551.0	6553.3
27.5°	6809.6	6776.2	6731.6	6715.9	6731.6	6780.6	6805.1	6814.1
30°	7226.4	7146.2	7043.6	6987.9	6979.1	7043.6	7088.2	7094.9
32.5°	7703.5	7587.5	7451.6	7337.9	7308.9	7349.0	7402.6	7400.2
35°	8269.7	8131.4	7966.4	7821.6	7754.6	7794.8	7870.6	7879.6
37.5°	8922.6	8742.2	8552.7	8370.0	8265.1	8276.3	8356.4	8383.3
40°	9651.5	9417.5	9179.0	8933.8	8784.5	8755.5	8853.6	8869.2
42.5°	10431.7	10130.8	9829.8	9526.8	9335.0	9290.5	9404.2	9397.5
45°	11263.1	10879.7	10527.5	10193.3	9965.9	9899.0	9992.7	9992.7
47.5°	12156.9	11684.4	11265.4	10886.4	10639.0	10543.2	10632.3	10639.0
50°	13104.2	12602.7	12110.2	11688.9	11392.5	11269.8	11385.7	11403.6
52.5°	14047.1	13559.0	13062.0	12580.4	12221.6	12072.3	12206.0	12264.0
55°	15003.4	14524.2	14049.4	13579.1	13153.2	12977.3	13119.9	13193.5
57.5°	16013.1	15569.6	15117.1	14642.3	14232.1	13958.0	14109.5	14207.6
60°	17196.8	16817.8	16347.5	15823.7	15409.1	15130.4	15217.4	15304.3
62.5°	18132.8	18280.0	17881.1	17274.8	16742.1	16385.4	16470.1	16561.4
65°	17680.5	19189.4	19543.9	18931.0	18193.1	17638.0	17602.4	17649.2
67.5°	14778.3	17709.4	19847.1	20431.1	19813.6	19042.4	18899.6	18968.8
70°	9885.6	13536.6	17308.2	20116.7	20863.4	20564.8	20424.3	20466.7
72.5°	4747.8	7883.9	11742.3	15475.9	17749.5	18792.7	19127.0	19289.7
75°	1736.3	3129.5	5659.4	8528.1	10295.7	11918.4	12977.3	13409.6
77.5°	1047.6	1263.8	1807.7	2721.6	3082.7	3450.5	3307.9	3379.2
80°	775.7	876.0	991.8	1114.6	1154.7	1154.7	1110.1	1074.3
82.5°	543.9	608.5	664.2	731.2	749.0	715.5	588.5	468.0
85°	349.9	378.9	403.5	445.8	434.7	414.6	278.6	247.5
87.5°	160.5	182.8	191.6	211.8	202.7	193.9	138.2	116.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)