

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: P191027

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191027
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-09-LED-E1-RW-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61041.5 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

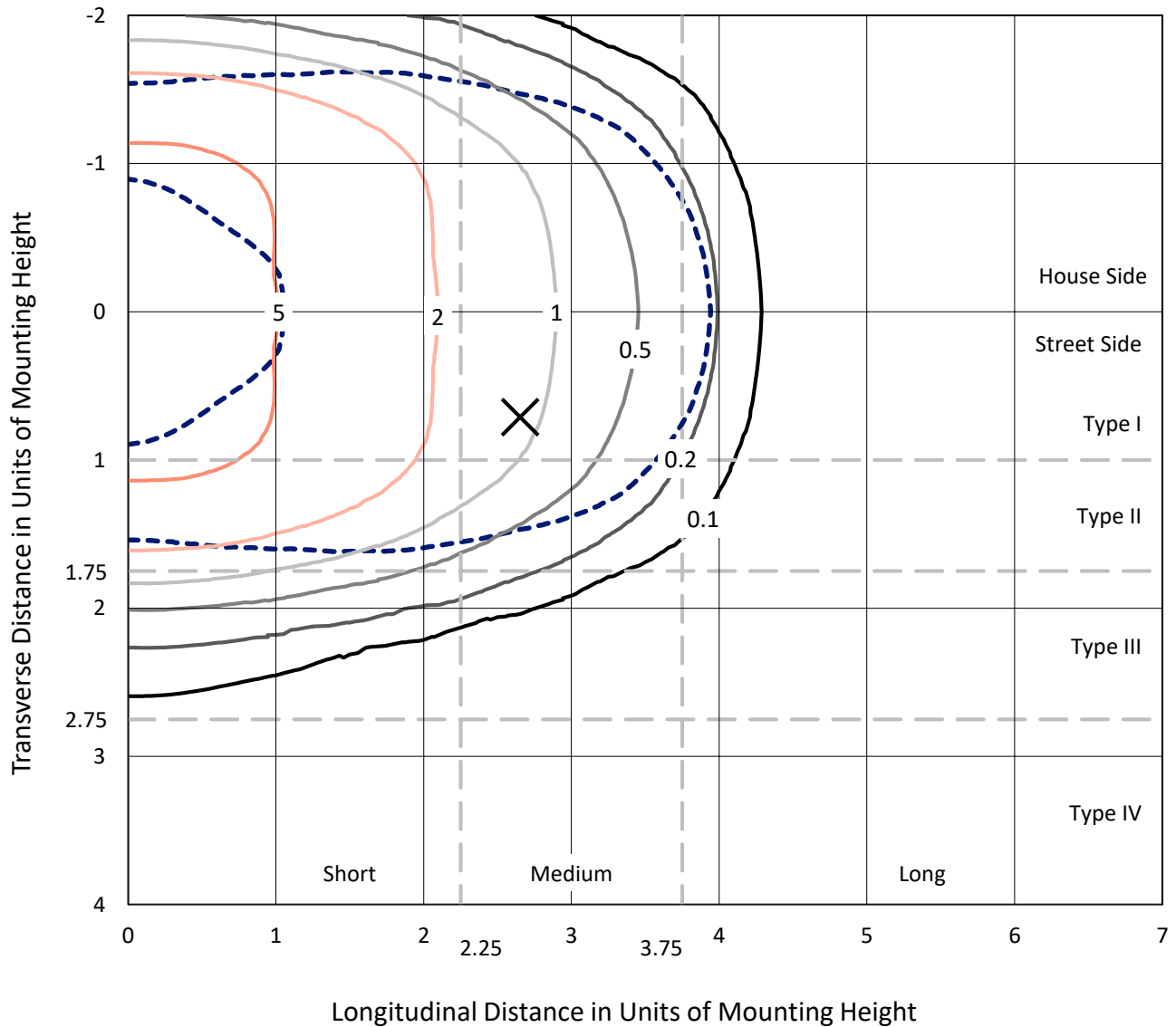
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

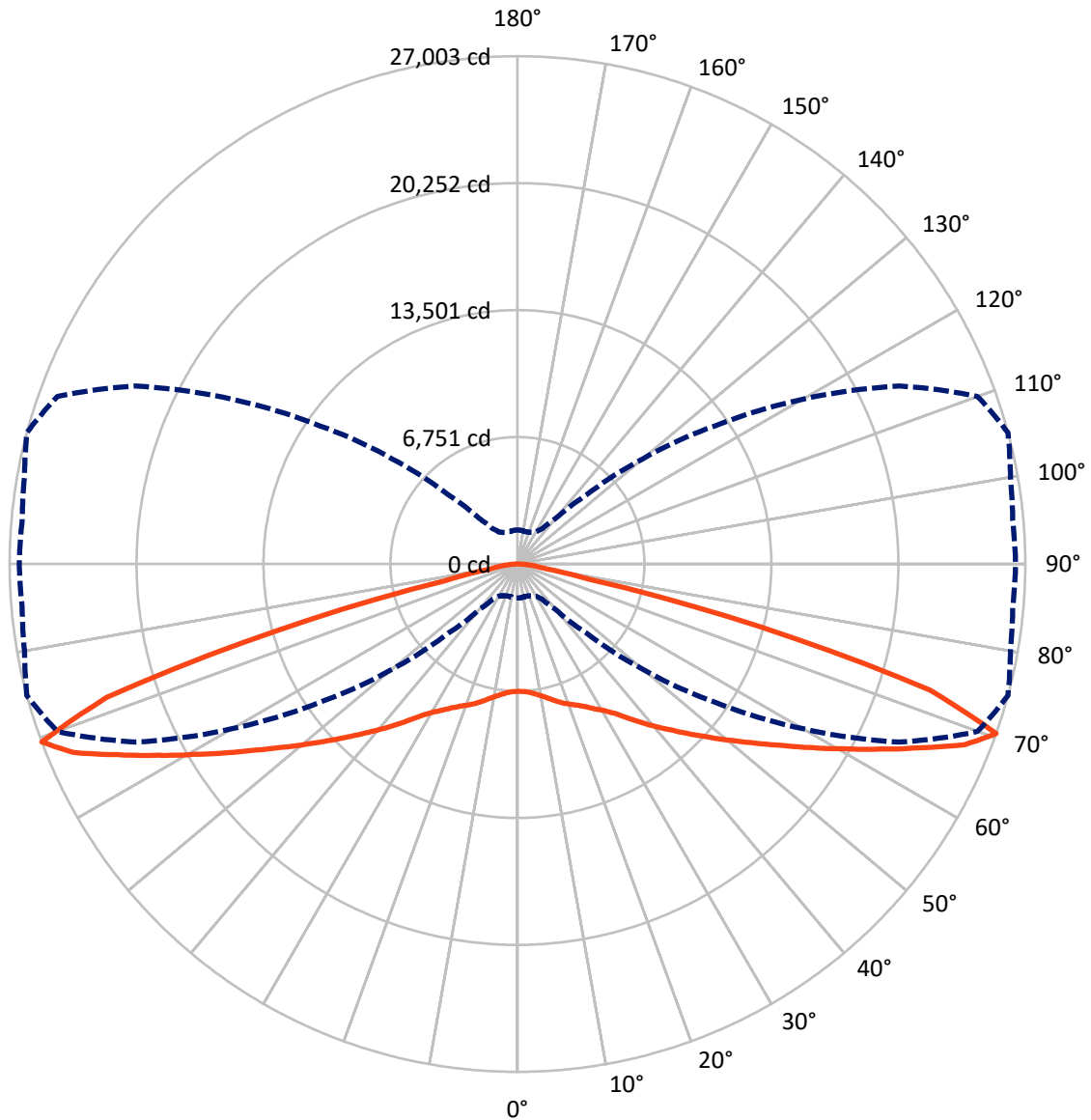
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30520.8	0.0	30520.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30520.8	0.0	30520.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	61041.5	0.0	61041.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.4	1.1
10°-20°	2017.7	3.3
20°-30°	3797.7	6.2
30°-40°	6725.0	11.0
40°-50°	11246.3	18.4
50°-60°	15671.8	25.7
60°-70°	14533.0	23.8
70°-80°	5791.9	9.5
80°-90°	608.8	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°	61041.5	100.0
0°-180°	61041.5	100.0



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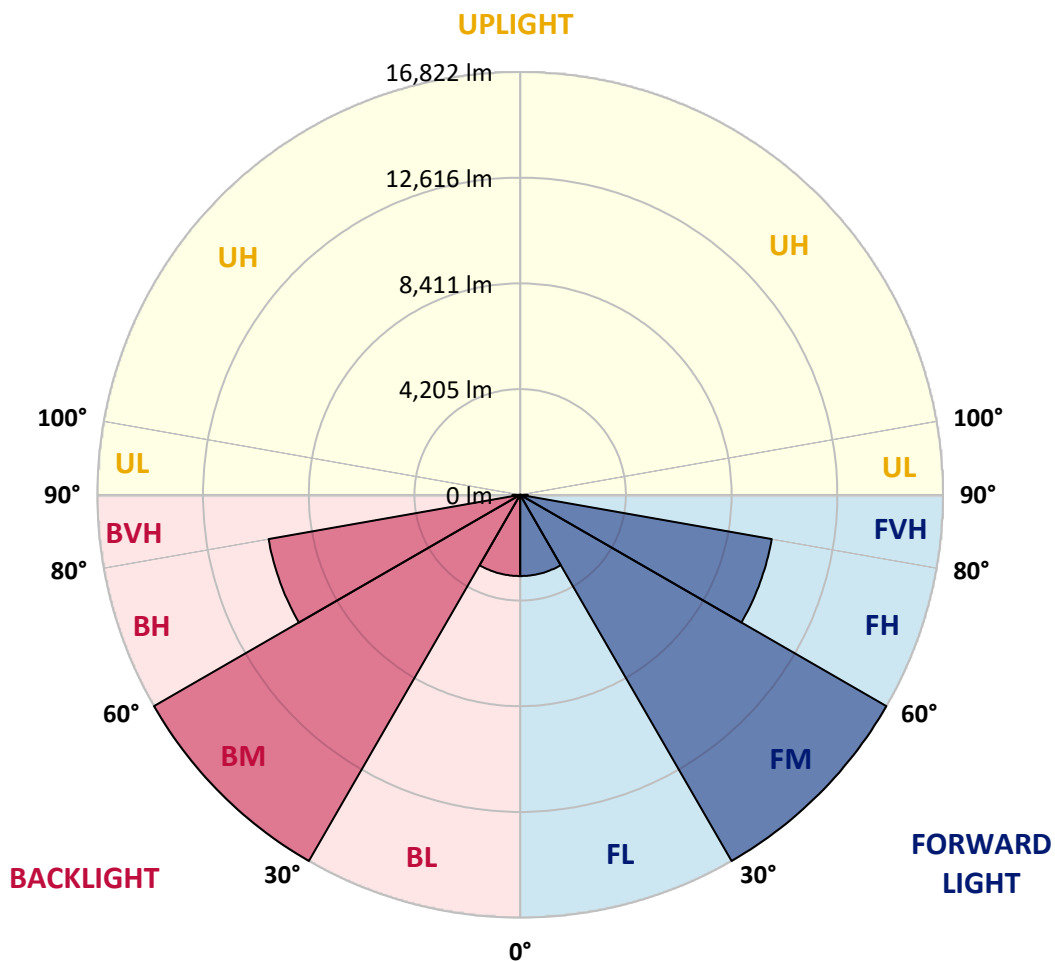
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3232.4	5.3			
FM	(30°-60°)	16821.5	27.6			
FH	(60°-80°)	10162.4	16.6			G4/12000
FVH	(80°-90°)	304.4	0.5			G3/500
BL	(0°-30°)	3232.4	5.3	B4/5000		
BM	(30°-60°)	16821.5	27.6	B5		
BH	(60°-80°)	10162.4	16.6	B5		G5
BVH	(80°-90°)	304.4	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°	6770.9	6770.9	6770.9	6770.9	6770.9	6770.9	6770.9	6770.9	6770.9	6770.9	6770.9
2.5°	6759.4	6753.6	6759.4	6756.5	6762.3	6762.3	6768.0	6779.6	6779.6	6788.2	6785.3
5°	6693.1	6690.1	6698.8	6707.5	6716.1	6733.5	6750.8	6776.7	6796.9	6811.3	6825.7
7.5°	6563.3	6563.3	6574.7	6595.0	6615.1	6652.7	6693.1	6744.9	6796.9	6840.2	6877.7
10°	6456.5	6462.3	6476.7	6511.3	6545.9	6603.6	6658.4	6733.5	6805.6	6877.7	6935.4
12.5°	6393.0	6401.6	6427.6	6479.6	6537.3	6615.1	6698.8	6794.0	6874.7	6961.3	7019.1
15°	6413.2	6419.0	6456.5	6520.0	6595.0	6693.1	6805.6	6918.0	7013.2	7105.6	7183.5
17.5°	6525.7	6534.4	6577.7	6649.8	6727.6	6843.0	6964.2	7091.2	7209.5	7313.3	7408.5
20°	6727.6	6736.3	6791.2	6869.0	6961.3	7079.6	7200.8	7333.5	7466.2	7575.9	7682.6
22.5°	7013.2	7027.7	7079.6	7157.5	7261.3	7388.3	7532.5	7673.9	7800.8	7901.8	7997.0
25°	7388.3	7420.1	7469.1	7555.6	7665.3	7780.7	7936.5	8080.7	8201.8	8297.1	8366.3
27.5°	7919.2	7962.4	7999.9	8083.6	8190.4	8299.9	8455.7	8582.7	8698.0	8790.4	8842.3
30°	8623.1	8666.3	8703.9	8784.6	8882.7	8986.5	9133.7	9246.1	9318.4	9390.5	9387.5
32.5°	9477.0	9523.2	9537.6	9624.1	9725.1	9837.6	9970.3	10033.8	10091.5	10100.1	10048.2
35°	10432.0	10455.0	10512.7	10628.0	10743.4	10835.8	10962.8	10994.5	10994.5	10951.2	10835.8
37.5°	11479.1	11493.6	11574.4	11704.2	11822.4	11917.7	12004.2	12067.6	12035.9	11943.6	11750.3
40°	12627.3	12653.3	12768.7	12884.1	13016.8	13106.3	13198.5	13210.1	13178.4	13042.7	12780.2
42.5°	13723.6	13746.7	13862.1	14043.8	14217.0	14341.0	14427.5	14444.9	14343.8	14219.8	13893.8
45°	14667.0	14727.5	14877.6	15091.1	15342.0	15518.1	15636.3	15685.3	15595.9	15434.4	15056.4
47.5°	15414.1	15474.8	15688.3	15942.1	16253.7	16539.3	16735.5	16839.3	16816.3	16695.1	16282.5
50°	15962.3	16020.0	16250.8	16562.4	16925.8	17280.7	17615.4	17863.5	17950.0	17895.2	17517.3
52.5°	16025.8	16121.0	16392.2	16810.5	17283.6	17768.2	18244.3	18665.5	18951.1	18994.4	18714.6
55°	15140.1	15235.3	15610.3	16230.6	16934.5	17725.0	18486.7	19196.3	19758.9	20047.4	19900.3
57.5°	13051.4	13221.6	13616.9	14343.8	15379.6	16562.4	17776.9	19037.6	20182.9	20947.5	21094.6
60°	10002.0	10204.0	10602.1	11375.3	12529.2	13940.0	15561.3	17424.9	19447.3	21166.7	22193.7
62.5°	6416.0	6606.5	7024.8	7697.0	8637.5	10166.5	11906.1	14118.9	16836.4	19551.1	21997.5
65°	3297.5	3401.3	3620.6	4027.4	4760.1	5902.5	7463.3	9670.3	12777.4	16126.7	19663.7
67.5°	2088.7	2108.9	2157.9	2215.6	2403.1	2798.4	3525.4	4901.5	7457.5	10951.2	15091.1
70°	1805.9	1805.9	1782.9	1774.2	1797.3	1852.2	1964.7	2284.9	3147.4	5198.6	8703.9
72.5°	1653.1	1635.8	1595.4	1563.6	1557.9	1557.9	1581.0	1630.0	1768.5	2117.5	3407.1
75°	1523.3	1474.2	1419.3	1381.9	1367.5	1353.1	1350.2	1358.8	1387.6	1442.5	1627.1
77.5°	1364.6	1301.1	1237.7	1200.1	1182.8	1162.6	1145.3	1125.1	1110.7	1128.0	1208.8
80°	1174.1	1102.0	1053.0	1029.9	1012.6	983.8	946.2	911.7	879.9	874.1	923.2
82.5°	946.2	862.6	865.5	874.1	842.4	802.0	761.6	724.1	669.3	640.5	669.3
85°	764.6	721.3	701.0	755.9	709.7	649.1	585.6	519.2	432.7	363.5	395.3
87.5°	297.2	297.2	444.3	683.7	614.5	502.0	429.8	366.4	227.9	175.9	178.9
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°	6770.9	6770.9	6770.9	6770.9	6770.9	6770.9	6770.9	6770.9
2.5°	6782.5	6788.2	6785.3	6782.5	6782.5	6779.6	6782.5	6782.5
5°	6834.4	6848.9	6848.9	6854.6	6854.6	6857.5	6860.3	6857.5
7.5°	6912.3	6938.3	6955.6	6975.7	6978.7	6981.5	6987.3	6981.5
10°	6990.2	7042.1	7079.6	7117.1	7134.5	7140.2	7145.9	7145.9
12.5°	7088.2	7160.3	7226.7	7293.1	7324.8	7342.1	7342.1	7353.7
15°	7249.9	7322.0	7399.8	7489.2	7544.1	7572.9	7581.6	7581.6
17.5°	7477.8	7541.2	7607.6	7694.1	7763.4	7800.8	7809.5	7806.6
20°	7743.1	7803.7	7841.2	7896.1	7956.6	7999.9	8011.4	8011.4
22.5°	8046.0	8080.7	8086.4	8103.7	8152.8	8210.5	8236.5	8242.2
25°	8380.7	8389.3	8366.3	8366.3	8398.0	8452.8	8478.8	8481.7
27.5°	8813.4	8770.2	8712.5	8692.3	8712.5	8776.0	8807.7	8819.3
30°	9352.9	9249.1	9116.3	9044.2	9032.8	9116.3	9174.0	9182.7
32.5°	9970.3	9820.3	9644.3	9497.2	9459.6	9511.6	9580.9	9578.0
35°	10703.1	10524.2	10310.7	10123.2	10036.7	10088.5	10186.6	10198.2
37.5°	11548.4	11314.7	11069.5	10832.9	10697.3	10711.7	10815.6	10850.2
40°	12491.8	12188.9	11880.1	11562.8	11369.5	11332.0	11458.9	11479.1
42.5°	13501.4	13112.0	12722.5	12330.1	12082.1	12024.4	12171.5	12162.9
45°	14577.6	14081.3	13625.5	13192.8	12898.5	12811.9	12933.2	12933.2
47.5°	15734.4	15122.8	14580.4	14090.0	13769.7	13645.8	13761.1	13769.7
50°	16960.5	16311.4	15673.9	15128.5	14744.9	14586.2	14736.2	14759.3
52.5°	18180.8	17549.0	16905.7	16282.5	15818.1	15624.8	15797.8	15872.9
55°	19418.5	18798.2	18183.7	17575.0	17023.9	16796.0	16980.7	17075.9
57.5°	20725.3	20151.2	19565.6	18951.1	18420.3	18065.4	18261.6	18388.6
60°	22257.3	21766.8	21158.1	20480.1	19943.6	19582.9	19695.4	19807.9
62.5°	23468.8	23659.3	23142.9	22358.2	21668.7	21207.1	21316.8	21435.0
65°	22883.2	24836.3	25295.0	24501.7	23546.8	22828.5	22782.2	22842.9
67.5°	19127.0	22920.7	25687.4	26443.3	25644.1	24646.0	24461.3	24550.7
70°	12794.7	17520.2	22401.5	26036.5	27002.9	26616.4	26434.6	26489.4
72.5°	6144.9	10204.0	15197.8	20030.1	22972.7	24322.8	24755.6	24966.1
75°	2247.3	4050.5	7324.8	11037.7	13325.5	15425.7	16796.0	17355.7
77.5°	1355.9	1635.8	2339.7	3522.5	3989.8	4465.9	4281.3	4373.5
80°	1003.9	1133.7	1283.8	1442.5	1494.4	1494.4	1436.7	1390.5
82.5°	703.9	787.6	859.7	946.2	969.3	926.1	761.6	605.8
85°	453.0	490.4	522.2	576.9	562.5	536.6	360.6	320.2
87.5°	207.8	236.6	248.1	274.0	262.5	251.0	178.9	150.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)