

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: P269624

Luminaire Tested: **GLEON-AF-09-LED-E1-RW-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269624
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51843.8 lumens
Efficiency: N/A
Efficacy: 90.2 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

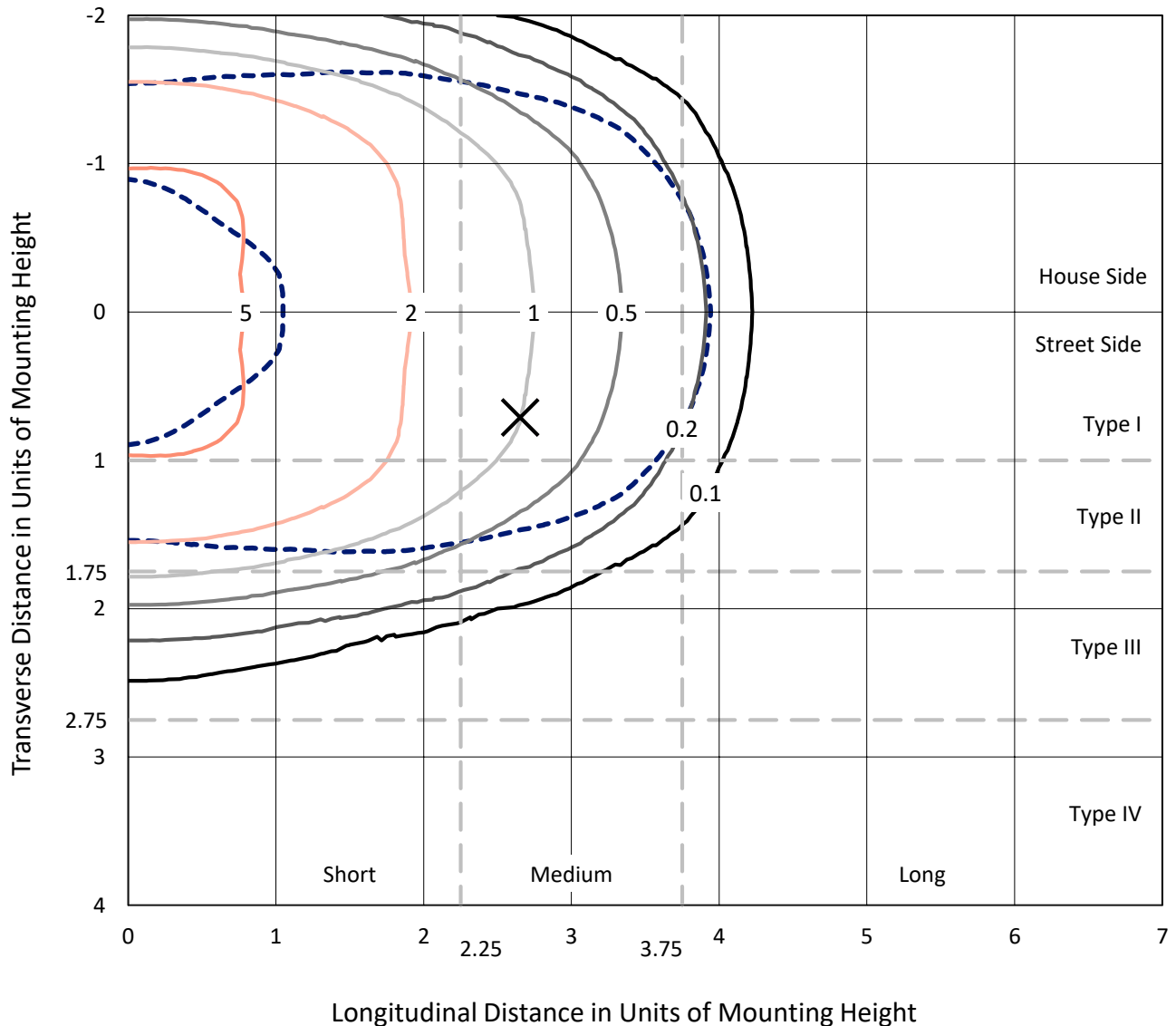


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

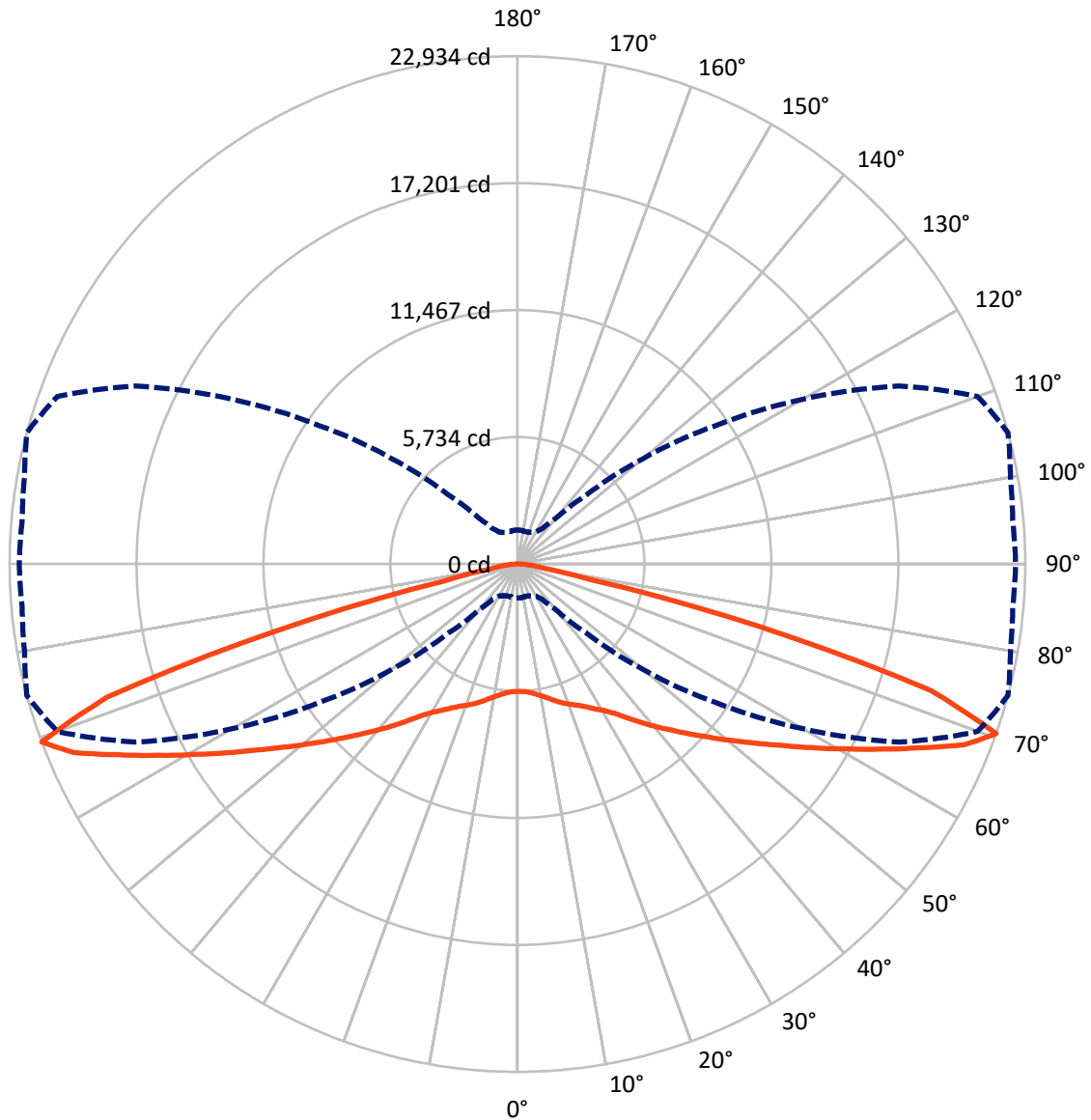


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - Full Cutoff

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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	25921.9	0.0	25921.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25921.9	0.0	25921.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	51843.8	0.0	51843.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.5	1.1
10°-20°	1713.7	3.3
20°-30°	3225.5	6.2
30°-40°	5711.7	11.0
40°-50°	9551.7	18.4
50°-60°	13310.3	25.7
60°-70°	12343.2	23.8
70°-80°	4919.1	9.5
80°-90°	517.1	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°	51843.8	100.0
0°-180°	51843.8	100.0



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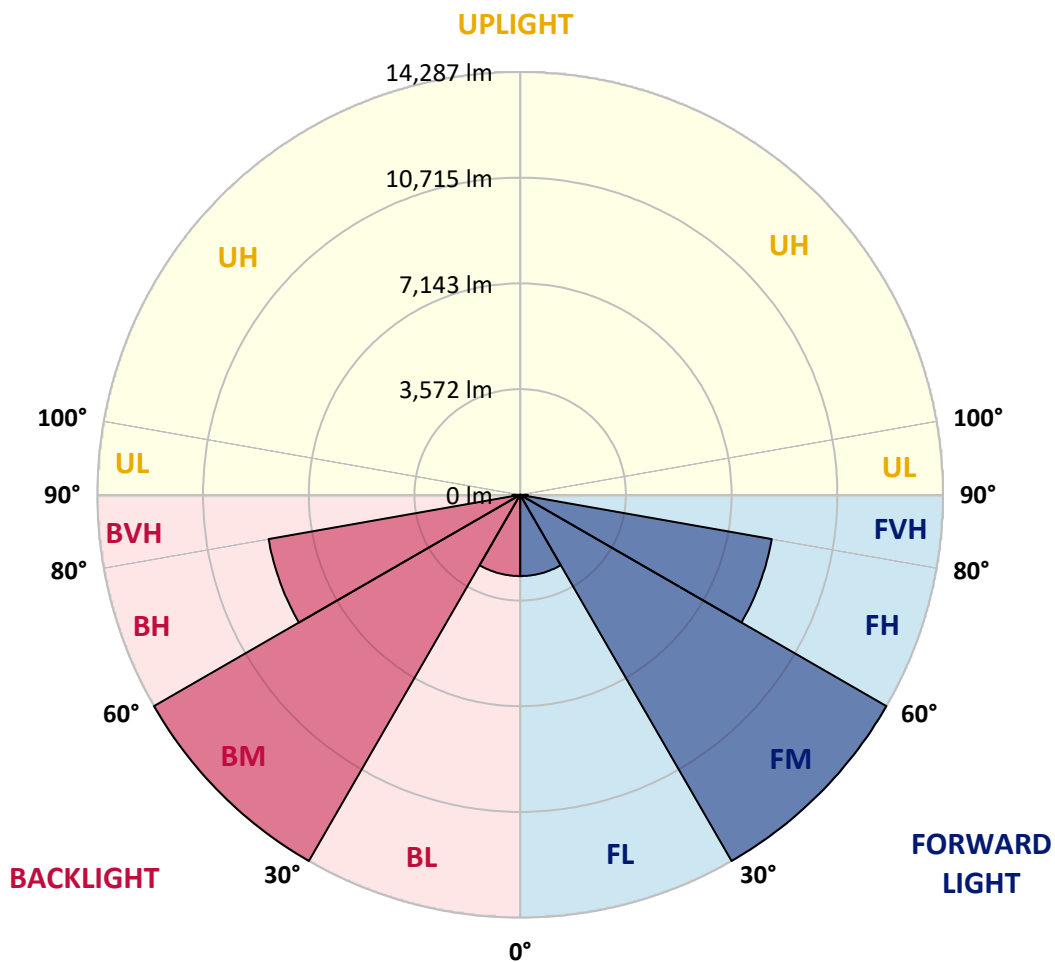
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2745.3	5.3			
FM	(30°-60°)	14286.9	27.6			
FH	(60°-80°)	8631.2	16.6			G4/12000
FVH	(80°-90°)	258.5	0.5			G3/500
BL	(0°-30°)	2745.3	5.3	B4/5000		
BM	(30°-60°)	14286.9	27.6	B5		
BH	(60°-80°)	8631.2	16.6	B5		G5
BVH	(80°-90°)	258.5	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°	5750.7	5750.7	5750.7	5750.7	5750.7	5750.7	5750.7	5750.7	5750.7	5750.7	5750.7
2.5°	5740.9	5735.9	5740.9	5738.5	5743.4	5743.4	5748.3	5758.0	5758.0	5765.4	5762.9
5°	5684.6	5682.0	5689.4	5696.8	5704.1	5718.8	5733.5	5755.6	5772.8	5784.9	5797.2
7.5°	5574.3	5574.3	5584.0	5601.2	5618.4	5650.2	5684.6	5728.6	5772.8	5809.5	5841.4
10°	5483.7	5488.6	5500.9	5530.1	5559.6	5608.6	5655.1	5718.8	5780.1	5841.4	5890.4
12.5°	5429.7	5437.0	5459.1	5503.1	5552.2	5618.4	5689.4	5770.4	5839.0	5912.5	5961.4
15°	5446.9	5451.8	5483.7	5537.5	5601.2	5684.6	5780.1	5875.6	5956.5	6035.0	6101.1
17.5°	5542.5	5549.8	5586.5	5647.7	5713.8	5811.9	5914.9	6022.6	6123.1	6211.3	6292.2
20°	5713.8	5721.2	5767.8	5834.0	5912.5	6012.9	6115.8	6228.5	6341.1	6434.3	6525.0
22.5°	5956.5	5968.8	6012.9	6079.0	6167.3	6275.0	6397.5	6517.7	6625.4	6711.1	6792.1
25°	6275.0	6302.0	6343.7	6417.1	6510.2	6608.3	6740.6	6863.1	6965.9	7046.8	7105.7
27.5°	6725.9	6762.6	6794.5	6865.6	6956.1	7049.3	7181.6	7289.4	7387.4	7465.9	7509.9
30°	7323.7	7360.5	7392.3	7461.0	7544.2	7632.4	7757.5	7853.1	7914.2	7975.5	7973.0
32.5°	8049.1	8088.2	8100.5	8173.9	8259.7	8355.2	8468.1	8522.0	8570.9	8578.3	8534.2
35°	8860.1	8879.7	8928.7	9026.7	9124.7	9203.0	9310.8	9337.8	9337.8	9301.1	9203.0
37.5°	9749.5	9761.7	9830.3	9940.6	10041.1	10121.9	10195.5	10249.3	10222.4	10143.9	9979.8
40°	10724.7	10746.8	10844.7	10942.8	11055.4	11131.3	11209.8	11219.7	11192.6	11077.4	10854.5
42.5°	11655.8	11675.4	11773.4	11927.8	12074.7	12180.1	12253.6	12268.3	12182.5	12077.2	11800.2
45°	12456.9	12508.4	12635.7	12817.1	13030.4	13179.8	13280.3	13322.0	13246.0	13108.7	12787.7
47.5°	13091.5	13143.0	13324.3	13540.0	13804.7	14047.2	14213.8	14301.9	14282.4	14179.4	13829.0
50°	13557.1	13606.1	13802.2	14066.7	14375.4	14676.9	14961.1	15171.8	15245.3	15198.8	14877.8
52.5°	13610.9	13691.8	13922.2	14277.5	14679.4	15090.9	15495.3	15853.0	16095.6	16132.3	15894.6
55°	12858.8	12939.6	13258.2	13785.0	14382.9	15054.2	15701.0	16303.8	16781.6	17026.7	16901.7
57.5°	11084.8	11229.4	11565.0	12182.5	13062.2	14066.7	15098.4	16169.0	17141.7	17791.1	17916.1
60°	8494.9	8666.5	9004.6	9661.2	10641.3	11839.5	13216.6	14799.3	16517.0	17977.3	18849.7
62.5°	5449.3	5611.1	5966.4	6537.2	7336.0	8634.6	10112.1	11991.5	14299.5	16605.2	18682.9
65°	2800.6	2888.8	3075.1	3420.6	4042.9	5013.3	6338.7	8213.2	10852.1	13696.7	16700.7
67.5°	1774.0	1791.1	1832.8	1881.8	2041.0	2376.7	2994.2	4162.9	6333.8	9301.1	12817.1
70°	1533.9	1533.9	1514.3	1506.8	1526.5	1573.0	1668.6	1940.6	2673.1	4415.3	7392.3
72.5°	1404.1	1389.3	1355.0	1328.1	1323.2	1323.2	1342.7	1384.4	1502.0	1798.4	2893.7
75°	1293.6	1252.1	1205.5	1173.6	1161.4	1149.1	1146.6	1154.1	1178.5	1225.1	1382.0
77.5°	1159.0	1105.0	1051.1	1019.2	1004.6	987.4	972.8	955.5	943.3	958.0	1026.7
80°	997.3	935.9	894.4	874.7	860.0	835.6	803.7	774.2	747.3	742.4	784.1
82.5°	803.7	732.6	735.1	742.4	715.5	681.2	646.9	615.0	568.4	544.0	568.4
85°	649.4	612.6	595.3	642.0	602.8	551.3	497.4	441.1	367.5	308.7	335.6
87.5°	252.3	252.3	377.4	580.8	521.8	426.3	365.2	311.3	193.6	149.5	152.0
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°	5750.7	5750.7	5750.7	5750.7	5750.7	5750.7	5750.7	5750.7
2.5°	5760.6	5765.4	5762.9	5760.6	5760.6	5758.0	5760.6	5760.6
5°	5804.6	5816.9	5816.9	5821.7	5821.7	5824.3	5826.6	5824.3
7.5°	5870.8	5892.8	5907.6	5924.6	5927.0	5929.5	5934.5	5929.5
10°	5936.9	5981.1	6012.9	6044.8	6059.3	6064.3	6069.2	6069.2
12.5°	6020.3	6081.4	6137.8	6194.2	6221.1	6235.9	6235.9	6245.6
15°	6157.4	6218.6	6284.8	6360.8	6407.3	6431.9	6439.2	6439.2
17.5°	6350.9	6404.8	6461.2	6534.8	6593.6	6625.4	6632.7	6630.3
20°	6576.4	6627.9	6659.8	6706.2	6757.7	6794.5	6804.3	6804.3
22.5°	6833.6	6863.1	6868.0	6882.8	6924.3	6973.4	6995.5	7000.3
25°	7117.9	7125.3	7105.7	7105.7	7132.6	7179.2	7201.3	7203.7
27.5°	7485.4	7448.7	7399.7	7382.5	7399.7	7453.5	7480.5	7490.3
30°	7943.6	7855.4	7742.8	7681.4	7671.6	7742.8	7791.7	7799.1
32.5°	8468.1	8340.6	8191.1	8066.2	8034.4	8078.4	8137.1	8134.7
35°	9090.4	8938.5	8757.0	8597.9	8524.3	8568.5	8651.8	8661.5
37.5°	9808.2	9609.8	9401.5	9200.6	9085.5	9097.8	9185.9	9215.4
40°	10609.5	10352.2	10090.0	9820.5	9656.3	9624.5	9732.2	9749.5
42.5°	11467.0	11136.3	10805.5	10472.4	10261.6	10212.6	10337.5	10330.1
45°	12381.0	11959.6	11572.4	11204.9	10955.0	10881.4	10984.4	10984.4
47.5°	13363.5	12844.1	12383.5	11967.0	11694.9	11589.7	11687.6	11694.9
50°	14405.0	13853.7	13312.2	12848.9	12523.1	12388.3	12515.7	12535.4
52.5°	15441.3	14904.8	14358.4	13829.0	13434.6	13270.4	13417.4	13481.1
55°	16492.5	15965.7	15443.8	14926.7	14458.8	14265.3	14422.1	14502.9
57.5°	17602.5	17114.9	16617.4	16095.6	15644.7	15343.3	15510.0	15617.8
60°	18903.6	18486.9	17970.0	17394.2	16938.4	16632.2	16727.7	16823.3
62.5°	19932.6	20094.4	19655.8	18989.4	18403.7	18011.6	18104.7	18205.2
65°	19435.2	21094.0	21483.7	20809.7	19998.7	19388.7	19349.4	19401.0
67.5°	16244.9	19467.1	21816.9	22458.7	21780.0	20932.3	20775.6	20851.5
70°	10866.7	14880.2	19026.0	22113.2	22934.2	22605.8	22451.5	22498.1
72.5°	5219.1	8666.5	12907.7	17011.9	19511.1	20658.0	21025.4	21204.3
75°	1908.7	3440.1	6221.1	9374.6	11317.6	13101.4	14265.3	14740.6
77.5°	1151.5	1389.3	1987.1	2991.7	3388.6	3793.0	3636.1	3714.5
80°	852.8	963.0	1090.4	1225.1	1269.2	1269.2	1220.2	1181.0
82.5°	597.8	668.9	730.1	803.7	823.2	786.6	646.9	514.5
85°	384.7	416.5	443.6	490.0	477.8	455.7	306.3	271.9
87.5°	176.3	201.0	210.7	232.8	223.0	213.2	152.0	127.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)