

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: P191017

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191017
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55644.4 lumens
Efficiency: N/A
Efficacy: 111.1 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): 501
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

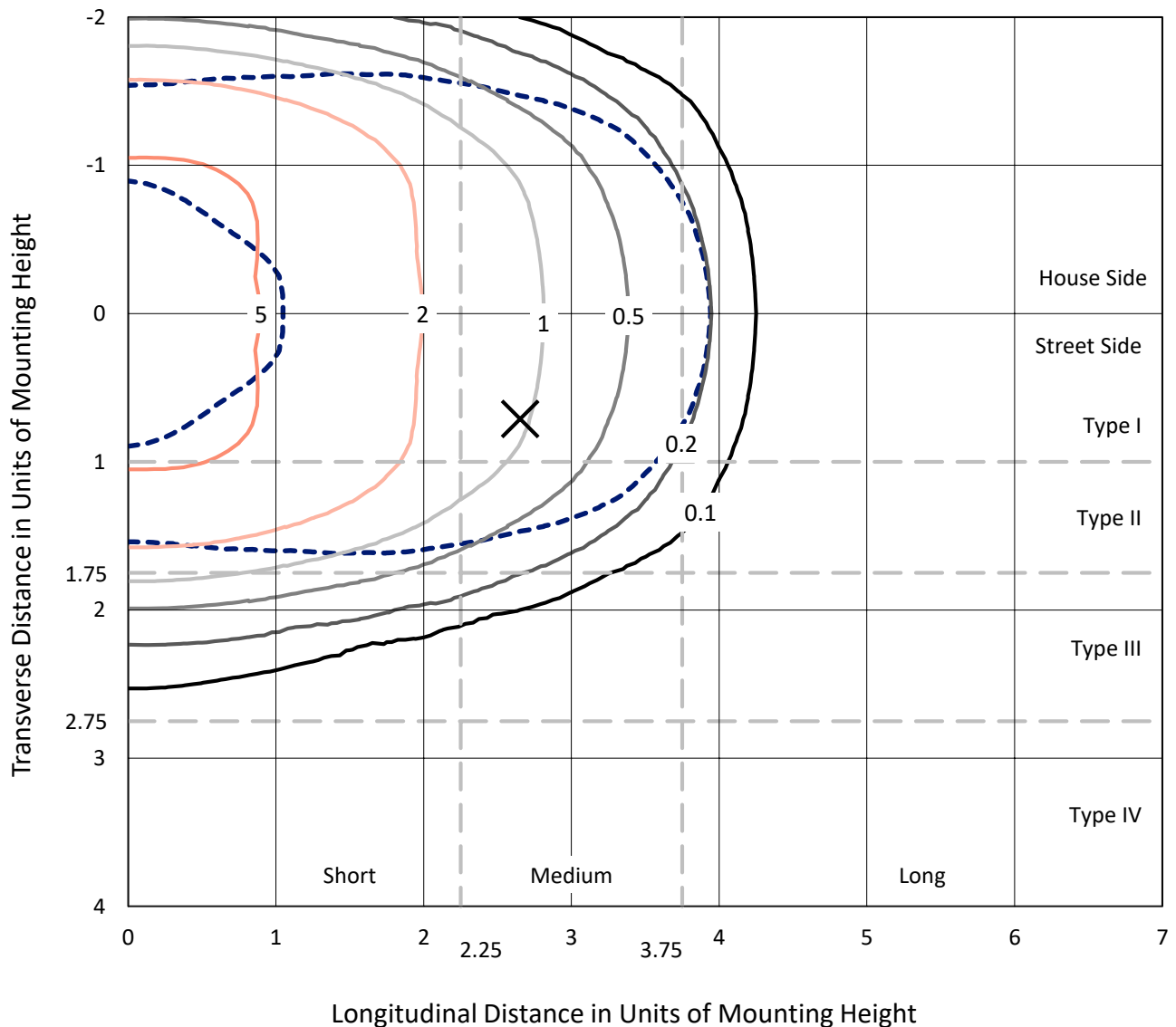


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

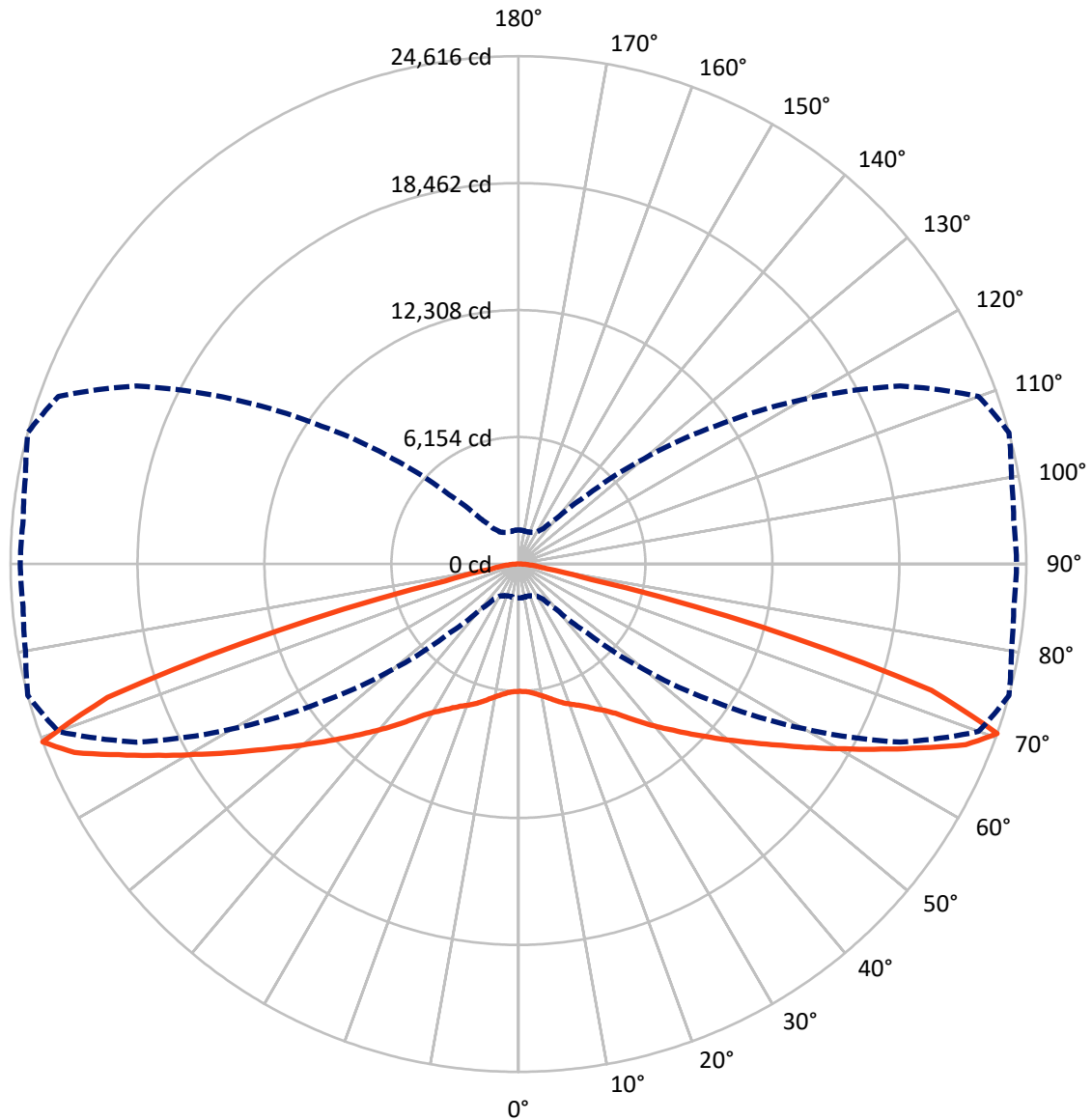


Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - Full Cutoff

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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	27822.2	0.0	27822.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27822.2	0.0	27822.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	55644.4	0.0	55644.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.0	1.1
10°-20°	1839.3	3.3
20°-30°	3461.9	6.2
30°-40°	6130.4	11.0
40°-50°	10251.9	18.4
50°-60°	14286.1	25.7
60°-70°	13248.1	23.8
70°-80°	5279.8	9.5
80°-90°	555.0	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°	55644.4	100.0
0°-180°	55644.4	100.0



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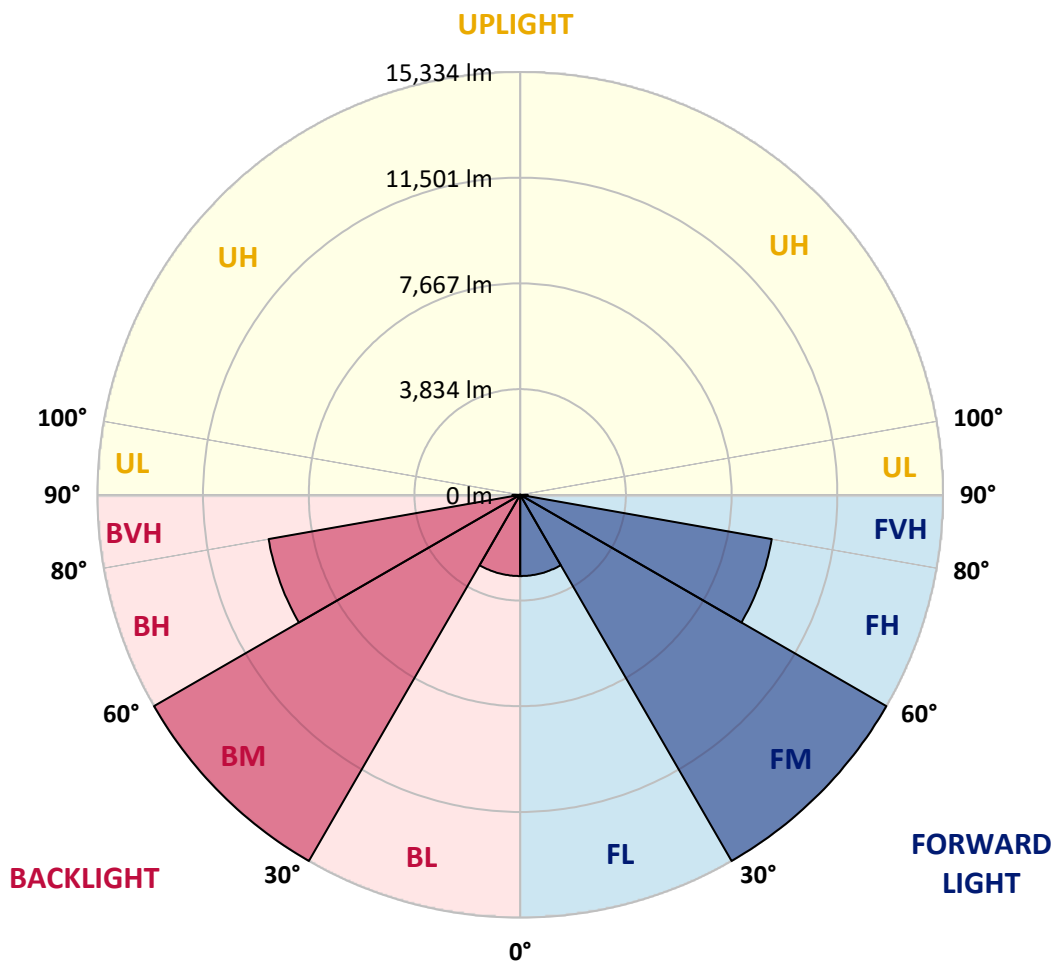
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2946.6	5.3			
FM	(30°-60°)	15334.2	27.6			
FH	(60°-80°)	9263.9	16.6			G4/12000
FVH	(80°-90°)	277.5	0.5			G3/500
BL	(0°-30°)	2946.6	5.3	B4/5000		
BM	(30°-60°)	15334.2	27.6	B5		
BH	(60°-80°)	9263.9	16.6	B5		G5
BVH	(80°-90°)	277.5	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°	6172.3	6172.3	6172.3	6172.3	6172.3	6172.3	6172.3	6172.3	6172.3	6172.3	6172.3
2.5°	6161.7	6156.5	6161.7	6159.1	6164.4	6164.4	6169.6	6180.2	6180.2	6188.0	6185.4
5°	6101.3	6098.6	6106.5	6114.4	6122.3	6138.1	6153.9	6177.5	6195.9	6209.1	6222.2
7.5°	5982.9	5982.9	5993.5	6011.9	6030.3	6064.5	6101.3	6148.5	6195.9	6235.4	6269.6
10°	5885.6	5890.9	5904.1	5935.6	5967.2	6019.8	6069.7	6138.1	6203.8	6269.6	6322.1
12.5°	5827.8	5835.6	5859.4	5906.6	5959.2	6030.3	6106.5	6193.4	6266.9	6345.9	6398.5
15°	5846.2	5851.4	5885.6	5943.4	6011.9	6101.3	6203.8	6306.4	6393.1	6477.3	6548.3
17.5°	5948.8	5956.6	5996.0	6061.8	6132.8	6238.1	6348.4	6464.1	6572.0	6666.7	6753.4
20°	6132.8	6140.7	6190.7	6261.7	6345.9	6453.7	6564.1	6685.1	6806.1	6906.0	7003.3
22.5°	6393.1	6406.3	6453.7	6524.7	6619.3	6735.0	6866.6	6995.4	7111.1	7203.2	7290.0
25°	6735.0	6764.0	6808.7	6887.6	6987.5	7092.7	7234.7	7366.2	7476.6	7563.5	7626.6
27.5°	7219.0	7258.3	7292.6	7368.8	7466.1	7566.1	7708.1	7823.8	7929.0	8013.2	8060.5
30°	7860.7	7900.0	7934.3	8007.9	8097.3	8192.0	8326.1	8428.7	8494.4	8560.2	8557.5
32.5°	8639.0	8681.2	8694.3	8773.2	8865.2	8967.8	9088.8	9146.6	9199.2	9207.1	9159.8
35°	9509.6	9530.6	9583.2	9688.4	9793.5	9877.7	9993.4	10022.4	10022.4	9982.9	9877.7
37.5°	10464.2	10477.4	10550.9	10669.3	10777.1	10863.9	10942.8	11000.7	10971.8	10887.6	10711.4
40°	11510.9	11534.5	11639.7	11744.9	11865.9	11947.5	12031.5	12042.1	12013.1	11889.6	11650.3
42.5°	12510.2	12531.2	12636.4	12802.1	12959.9	13073.0	13151.9	13167.6	13075.7	12962.5	12665.4
45°	13370.2	13425.4	13562.2	13756.7	13985.6	14146.0	14253.8	14298.5	14217.0	14069.7	13725.2
47.5°	14051.3	14106.5	14301.2	14532.6	14816.6	15077.0	15255.8	15350.4	15329.4	15219.0	14842.9
50°	14551.0	14603.5	14814.0	15097.9	15429.4	15752.8	16057.9	16284.0	16362.9	16313.0	15968.5
52.5°	14608.9	14695.6	14942.9	15324.1	15755.5	16197.3	16631.2	17015.2	17275.5	17315.0	17059.9
55°	13801.4	13888.3	14230.2	14795.6	15437.2	16157.8	16852.1	17499.0	18011.8	18274.8	18140.7
57.5°	11897.4	12052.6	12412.9	13075.7	14019.7	15097.9	16205.2	17354.4	18398.5	19095.3	19229.5
60°	9117.7	9301.8	9664.7	10369.6	11421.5	12707.4	14185.5	15884.3	17727.8	19295.2	20231.4
62.5°	5848.8	6022.3	6403.7	7016.4	7873.8	9267.6	10853.4	12870.5	15347.8	17822.5	20052.6
65°	3005.9	3100.6	3300.4	3671.3	4339.3	5380.7	6803.4	8815.3	11647.6	14700.8	17925.1
67.5°	1904.0	1922.4	1967.1	2019.7	2190.6	2550.9	3213.7	4468.1	6798.1	9982.9	13756.7
70°	1646.3	1646.3	1625.3	1617.4	1638.4	1688.4	1790.9	2082.8	2869.2	4739.0	7934.3
72.5°	1506.9	1491.2	1454.3	1425.4	1420.2	1420.2	1441.1	1485.8	1612.1	1930.3	3105.9
75°	1388.6	1343.9	1293.9	1259.7	1246.6	1233.4	1230.8	1238.7	1265.0	1314.9	1483.3
77.5°	1243.9	1186.1	1128.2	1094.0	1078.2	1059.9	1044.0	1025.6	1012.5	1028.3	1101.9
80°	1070.3	1004.6	959.9	938.9	923.1	896.8	862.6	831.0	802.1	796.9	841.6
82.5°	862.6	786.3	789.0	796.9	767.9	731.1	694.3	660.1	610.1	583.8	610.1
85°	696.9	657.5	639.0	689.1	646.9	591.7	533.9	473.4	394.4	331.3	360.3
87.5°	270.9	270.9	405.0	623.3	560.2	457.6	391.9	334.0	207.8	160.4	163.1
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°	6172.3	6172.3	6172.3	6172.3	6172.3	6172.3	6172.3	6172.3
2.5°	6182.8	6188.0	6185.4	6182.8	6182.8	6180.2	6182.8	6182.8
5°	6230.1	6243.3	6243.3	6248.5	6248.5	6251.2	6253.8	6251.2
7.5°	6301.2	6324.8	6340.6	6359.0	6361.6	6364.3	6369.5	6364.3
10°	6372.2	6419.4	6453.7	6487.9	6503.6	6508.9	6514.2	6514.2
12.5°	6461.6	6527.2	6587.8	6648.3	6677.2	6693.0	6693.0	6703.5
15°	6608.8	6674.5	6745.5	6827.1	6877.1	6903.4	6911.3	6911.3
17.5°	6816.5	6874.4	6934.9	7013.9	7077.0	7111.1	7119.0	7116.4
20°	7058.6	7113.7	7148.0	7197.9	7253.1	7292.6	7303.1	7303.1
22.5°	7334.7	7366.2	7371.5	7387.2	7431.9	7484.5	7508.3	7513.5
25°	7639.7	7647.6	7626.6	7626.6	7655.5	7705.5	7729.1	7731.8
27.5°	8034.2	7994.8	7942.2	7923.8	7942.2	8000.0	8028.9	8039.5
30°	8526.0	8431.3	8310.4	8244.6	8234.0	8310.4	8362.9	8370.8
32.5°	9088.8	8952.0	8791.6	8657.4	8623.3	8670.6	8733.7	8731.1
35°	9756.8	9593.7	9399.1	9228.1	9149.3	9196.6	9286.0	9296.6
37.5°	10527.3	10314.3	10090.7	9875.1	9751.5	9764.7	9859.3	9890.9
40°	11387.3	11111.1	10829.8	10540.5	10364.2	10330.1	10445.8	10464.2
42.5°	12307.7	11952.7	11597.6	11240.0	11013.8	10961.2	11095.3	11087.5
45°	13288.6	12836.3	12420.8	12026.3	11758.1	11679.1	11789.6	11789.6
47.5°	14343.2	13785.7	13291.3	12844.2	12552.3	12439.2	12544.4	12552.3
50°	15460.9	14869.2	14288.0	13790.9	13441.2	13296.5	13433.3	13454.4
52.5°	16573.3	15997.4	15411.0	14842.9	14419.5	14243.3	14401.1	14469.4
55°	17701.6	17136.2	16576.0	16021.0	15518.8	15311.0	15479.3	15566.1
57.5°	18892.9	18369.5	17835.7	17275.5	16791.6	16468.2	16647.0	16762.7
60°	20289.3	19842.3	19287.3	18669.4	18180.2	17851.4	17954.0	18056.6
62.5°	21393.9	21567.4	21096.7	20381.4	19752.9	19332.0	19432.0	19539.8
65°	20860.0	22640.4	23058.5	22335.3	21464.9	20810.0	20767.9	20823.2
67.5°	17435.9	20894.2	23416.2	24105.2	23376.8	22466.9	22298.5	22380.0
70°	11663.4	15971.1	20420.8	23734.4	24615.5	24263.1	24097.3	24147.3
72.5°	5601.6	9301.8	13854.0	18259.1	20941.5	22172.3	22566.8	22758.7
75°	2048.7	3692.3	6677.2	10061.8	12147.3	14061.8	15311.0	15821.2
77.5°	1236.0	1491.2	2132.9	3211.0	3637.1	4071.0	3902.7	3986.8
80°	915.2	1033.5	1170.3	1314.9	1362.3	1362.3	1309.7	1267.5
82.5°	641.7	717.9	783.7	862.6	883.6	844.1	694.3	552.3
85°	412.9	447.0	476.0	526.0	512.8	489.2	328.8	292.0
87.5°	189.3	215.6	226.2	249.8	239.3	228.8	163.1	136.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)