

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: P191818

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191818
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-10-LED-E1-RW-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60225 lumens
Efficiency: N/A
Efficacy: 107.9 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

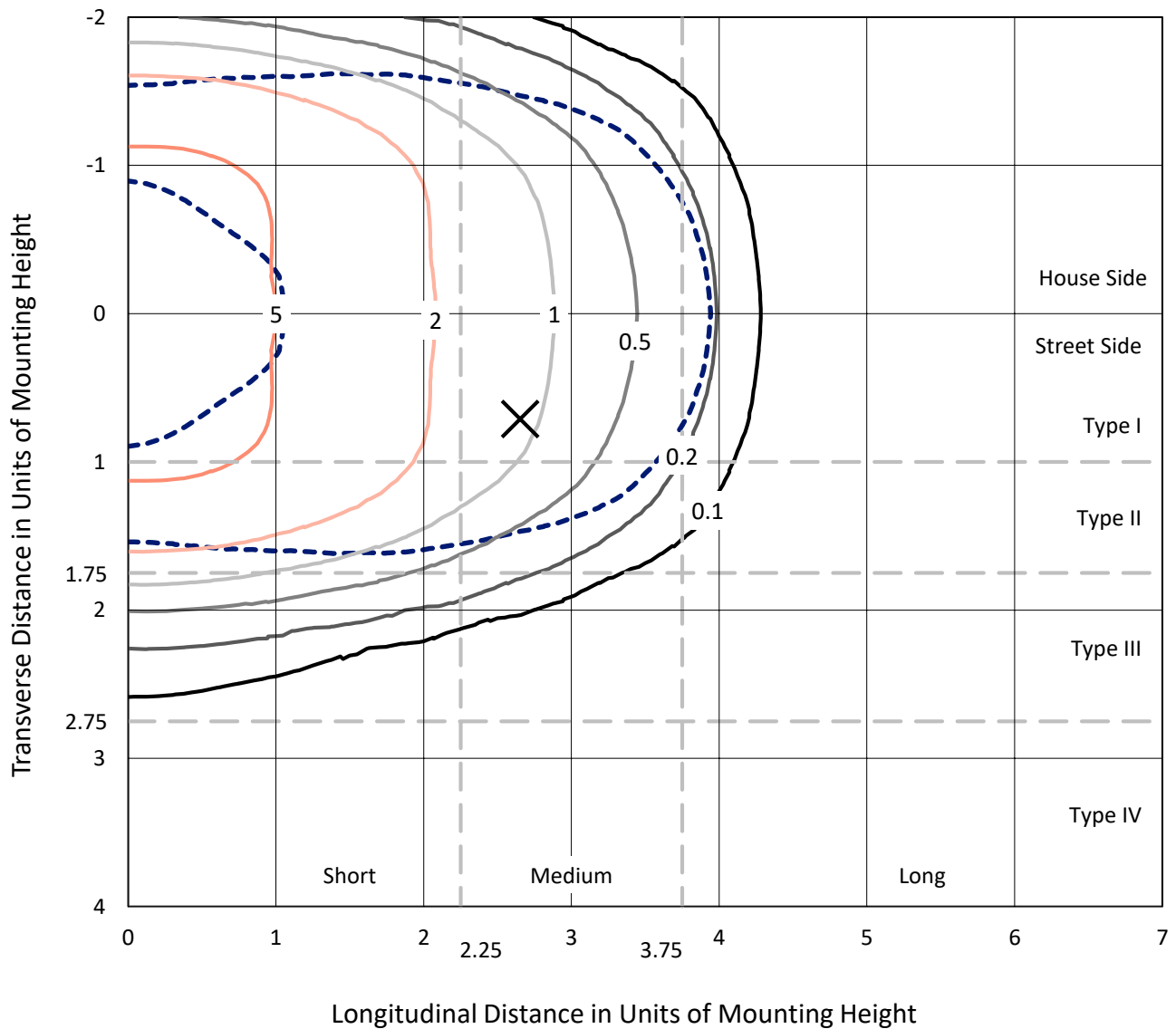
Input Watts (W): 558
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

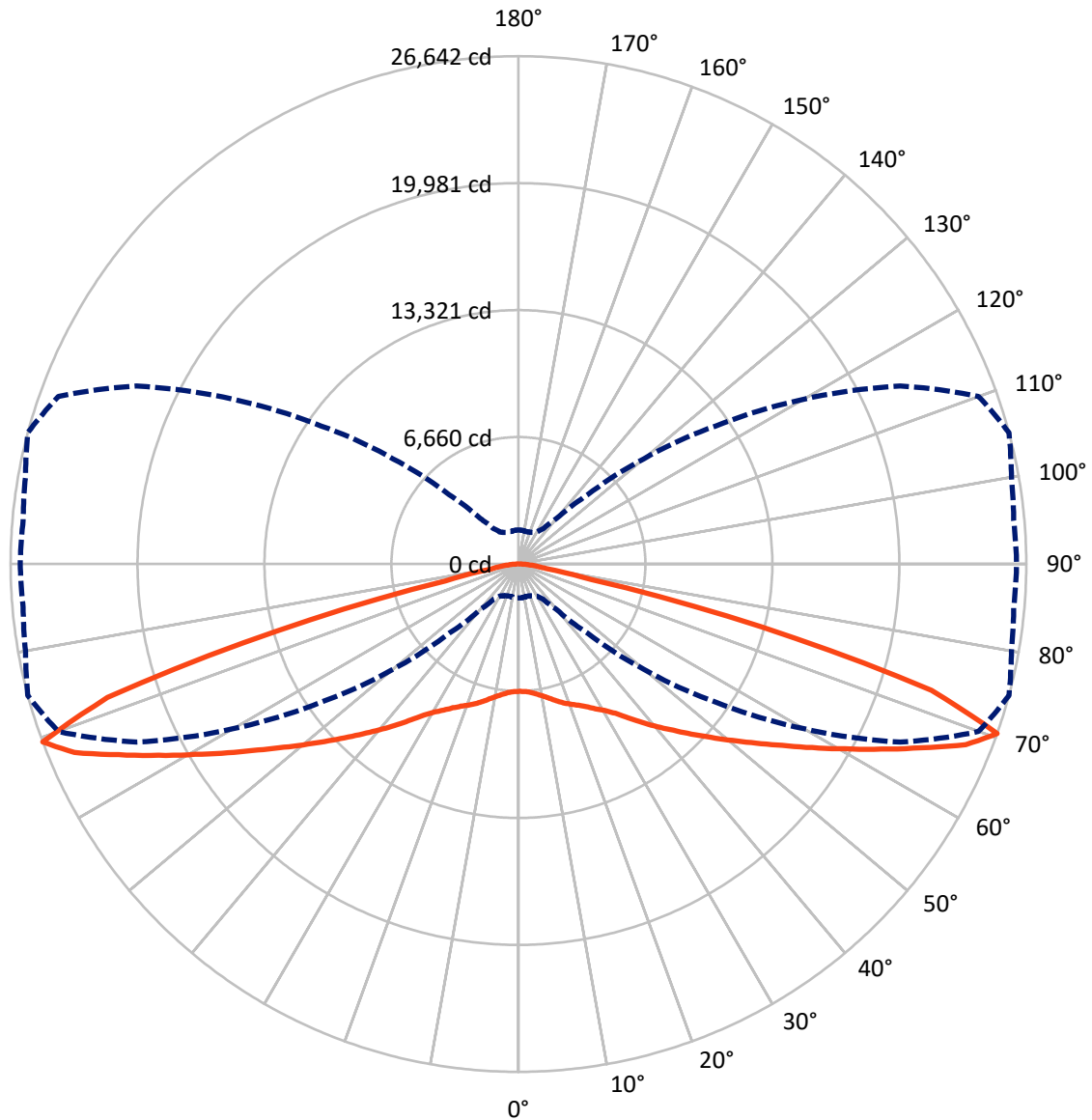
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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	30112.5	0.0	30112.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30112.5	0.0	30112.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	60225.0	0.0	60225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.7	1.1
10°-20°	1990.7	3.3
20°-30°	3746.9	6.2
30°-40°	6635.0	11.0
40°-50°	11095.9	18.4
50°-60°	15462.1	25.7
60°-70°	14338.6	23.8
70°-80°	5714.4	9.5
80°-90°	600.7	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°	60225.0	100.0
0°-180°	60225.0	100.0

Coefficient of Utilization



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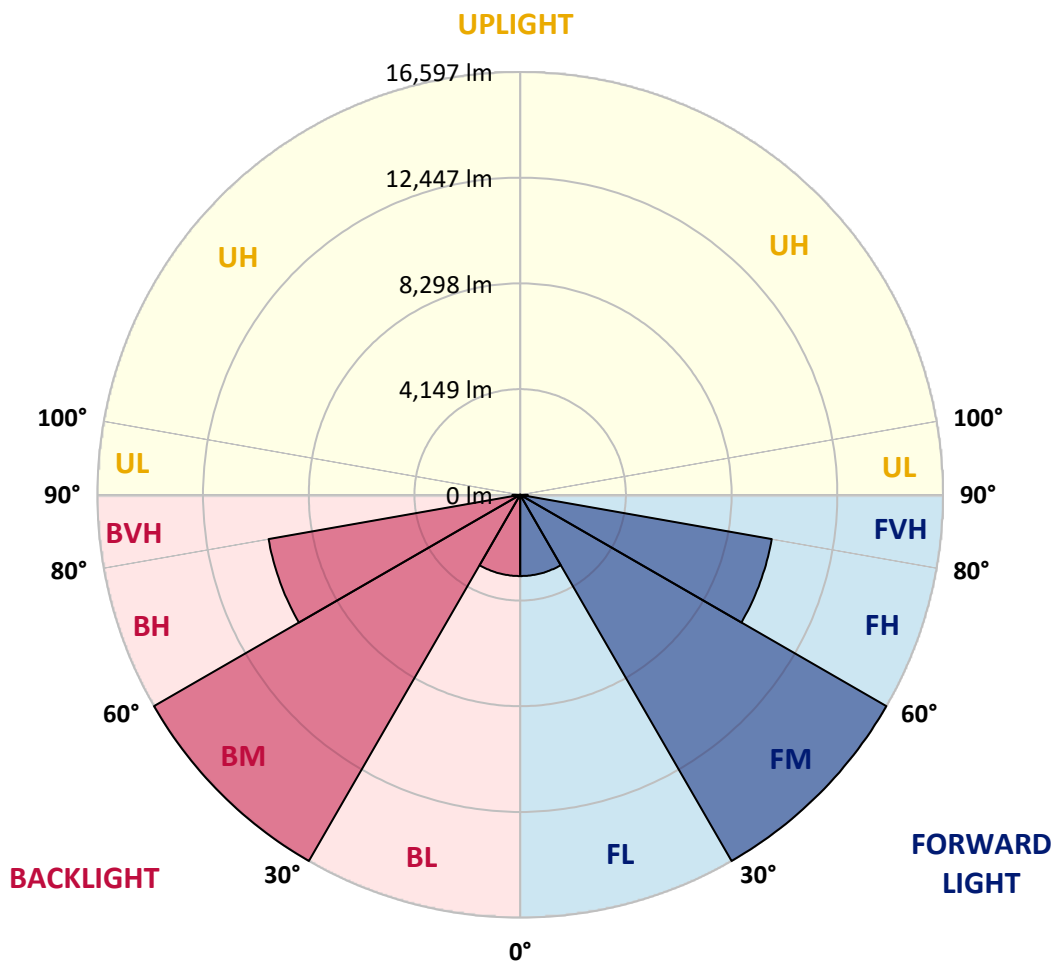
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3189.2	5.3			
FM	(30°-60°)	16596.5	27.6			
FH	(60°-80°)	10026.5	16.6			G4/12000
FVH	(80°-90°)	300.3	0.5			G3/500
BL	(0°-30°)	3189.2	5.3	B4/5000		
BM	(30°-60°)	16596.5	27.6	B5		
BH	(60°-80°)	10026.5	16.6	B5		G5
BVH	(80°-90°)	300.3	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°	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4
2.5°	6669.0	6663.3	6669.0	6666.1	6671.8	6671.8	6677.5	6688.9	6688.9	6697.4	6694.6
5°	6603.5	6600.7	6609.2	6617.7	6626.3	6643.4	6660.4	6686.0	6706.0	6720.2	6734.4
7.5°	6475.4	6475.4	6486.8	6506.7	6526.7	6563.7	6603.5	6654.7	6706.0	6748.7	6785.7
10°	6370.1	6375.8	6390.0	6424.2	6458.3	6515.3	6569.3	6643.4	6714.5	6785.7	6842.6
12.5°	6307.5	6316.0	6341.6	6392.9	6449.8	6526.7	6609.2	6703.1	6782.8	6868.2	6925.1
15°	6327.4	6333.1	6370.1	6432.7	6506.7	6603.5	6714.5	6825.5	6919.4	7010.5	7087.4
17.5°	6438.4	6447.0	6489.7	6560.8	6637.7	6751.5	6871.1	6996.3	7113.0	7215.5	7309.4
20°	6637.7	6646.2	6700.3	6777.1	6868.2	6984.9	7104.5	7235.4	7366.3	7474.5	7579.8
22.5°	6919.4	6933.7	6984.9	7061.8	7164.2	7289.5	7431.8	7571.3	7696.5	7796.1	7890.0
25°	7289.5	7320.8	7369.2	7454.6	7562.7	7676.6	7830.3	7972.6	8092.1	8186.1	8254.4
27.5°	7813.2	7855.9	7892.9	7975.4	8080.8	8188.9	8342.6	8467.9	8581.7	8672.8	8724.0
30°	8507.7	8550.4	8587.4	8667.1	8763.9	8866.3	9011.5	9122.5	9193.7	9264.8	9262.0
32.5°	9350.2	9395.8	9410.0	9495.4	9595.0	9706.0	9836.9	9899.6	9956.5	9965.0	9913.8
35°	10292.4	10315.1	10372.1	10485.9	10599.8	10690.8	10816.1	10847.4	10847.4	10804.7	10690.8
37.5°	11325.6	11339.8	11419.5	11547.6	11664.3	11758.2	11843.6	11906.2	11874.9	11783.8	11593.1
40°	12458.4	12484.0	12597.9	12711.7	12842.7	12930.9	13022.0	13033.4	13002.1	12868.3	12609.3
42.5°	13540.0	13562.8	13676.7	13856.0	14026.8	14149.1	14234.5	14251.6	14152.0	14029.6	13708.0
45°	14470.8	14530.6	14678.6	14889.2	15136.8	15310.5	15427.2	15475.5	15387.3	15227.9	14855.0
47.5°	15208.0	15267.8	15478.4	15728.9	16036.3	16318.1	16511.6	16614.1	16591.3	16471.8	16064.7
50°	15748.8	15805.7	16033.4	16340.8	16699.5	17049.6	17379.7	17624.5	17709.9	17655.8	17283.0
52.5°	15811.4	15905.3	16172.9	16585.6	17052.4	17530.6	18000.2	18415.8	18697.6	18740.3	18464.2
55°	14937.6	15031.5	15401.5	16013.5	16708.0	17487.9	18239.3	18939.5	19494.6	19779.2	19634.0
57.5°	12876.8	13044.8	13434.7	14152.0	15173.8	16340.8	17539.1	18783.0	19913.0	20667.3	20812.4
60°	9868.3	10067.5	10460.3	11223.1	12361.6	13753.5	15353.1	17191.9	19187.2	20883.6	21896.9
62.5°	6330.3	6518.1	6930.8	7594.0	8521.9	10030.5	11746.8	13930.0	16611.2	19289.6	21703.3
65°	3253.4	3355.8	3572.2	3973.5	4696.5	5823.6	7363.5	9540.9	12606.4	15911.0	19400.6
67.5°	2060.7	2080.7	2129.1	2186.0	2371.0	2760.9	3478.2	4835.9	7357.8	10804.7	14889.2
70°	1781.8	1781.8	1759.0	1750.5	1773.3	1827.3	1938.4	2254.3	3105.4	5129.1	8587.4
72.5°	1631.0	1613.9	1574.0	1542.7	1537.0	1537.0	1559.8	1608.2	1744.8	2089.2	3361.5
75°	1502.9	1454.5	1400.4	1363.4	1349.2	1334.9	1332.1	1340.6	1369.1	1423.2	1605.3
77.5°	1346.3	1283.7	1221.1	1184.1	1167.0	1147.1	1130.0	1110.1	1095.8	1112.9	1192.6
80°	1158.5	1087.3	1038.9	1016.1	999.1	970.6	933.6	899.4	868.1	862.4	910.8
82.5°	933.6	851.1	853.9	862.4	831.1	791.3	751.4	714.4	660.4	631.9	660.4
85°	754.3	711.6	691.7	745.7	700.2	640.4	577.8	512.3	427.0	358.6	389.9
87.5°	293.2	293.2	438.3	674.6	606.3	495.3	424.1	361.5	224.9	173.6	176.5
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°	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4
2.5°	6691.7	6697.4	6694.6	6691.7	6691.7	6688.9	6691.7	6691.7
5°	6743.0	6757.2	6757.2	6762.9	6762.9	6765.7	6768.6	6765.7
7.5°	6819.8	6845.4	6862.5	6882.4	6885.3	6888.1	6893.8	6888.1
10°	6896.7	6947.9	6984.9	7021.9	7039.0	7044.7	7050.4	7050.4
12.5°	6993.5	7064.6	7130.1	7195.5	7226.9	7243.9	7243.9	7255.3
15°	7152.8	7224.0	7300.9	7389.1	7443.2	7471.6	7480.2	7480.2
17.5°	7377.7	7440.3	7505.8	7591.2	7659.5	7696.5	7705.0	7702.2
20°	7639.6	7699.3	7736.3	7790.4	7850.2	7892.9	7904.3	7904.3
22.5°	7938.4	7972.6	7978.3	7995.4	8043.8	8100.7	8126.3	8132.0
25°	8268.6	8277.2	8254.4	8254.4	8285.7	8339.8	8365.4	8368.2
27.5°	8695.6	8652.9	8595.9	8576.0	8595.9	8658.6	8689.9	8701.3
30°	9227.8	9125.4	8994.4	8923.3	8911.9	8994.4	9051.4	9059.9
32.5°	9836.9	9688.9	9515.3	9370.1	9333.1	9384.4	9452.7	9449.8
35°	10559.9	10383.4	10172.8	9987.8	9902.4	9953.6	10050.4	10061.8
37.5°	11393.9	11163.3	10921.4	10688.0	10554.2	10568.5	10670.9	10705.1
40°	12324.6	12025.8	11721.2	11408.1	11217.4	11180.4	11305.7	11325.6
42.5°	13320.9	12936.6	12552.4	12165.2	11920.5	11863.5	12008.7	12000.2
45°	14382.5	13893.0	13443.3	13016.3	12726.0	12640.6	12760.1	12760.1
47.5°	15523.9	14920.5	14385.4	13901.5	13585.6	13463.2	13577.0	13585.6
50°	16733.6	16093.2	15464.2	14926.2	14547.6	14391.1	14539.1	14561.9
52.5°	17937.6	17314.3	16679.5	16064.7	15606.5	15415.8	15586.5	15660.6
55°	19158.7	18546.7	17940.5	17339.9	16796.2	16571.4	16753.5	16847.5
57.5°	20448.1	19881.7	19303.9	18697.6	18173.9	17823.8	18017.3	18142.6
60°	21959.5	21475.6	20875.0	20206.2	19676.7	19320.9	19432.0	19543.0
62.5°	23155.0	23342.8	22833.3	22059.1	21378.8	20923.4	21031.6	21148.3
65°	22577.2	24504.1	24956.7	24174.0	23231.8	22523.1	22477.5	22537.3
67.5°	18871.2	22614.2	25343.8	26089.5	25301.1	24316.3	24134.1	24222.3
70°	12623.5	17285.8	22101.8	25688.2	26641.7	26260.3	26081.0	26135.1
72.5°	6062.7	10067.5	14994.5	19762.1	22665.4	23997.5	24424.4	24632.2
75°	2217.3	3996.3	7226.9	10890.1	13147.2	15219.4	16571.4	17123.6
77.5°	1337.8	1613.9	2308.4	3475.4	3936.5	4406.1	4224.0	4315.0
80°	990.5	1118.6	1266.6	1423.2	1474.4	1474.4	1417.5	1371.9
82.5°	694.5	777.1	848.2	933.6	956.4	913.7	751.4	597.7
85°	446.9	483.9	515.2	569.3	555.0	529.4	355.8	315.9
87.5°	204.9	233.4	244.8	270.4	259.0	247.6	176.5	148.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)