

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: P269668

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50727.9 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - 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

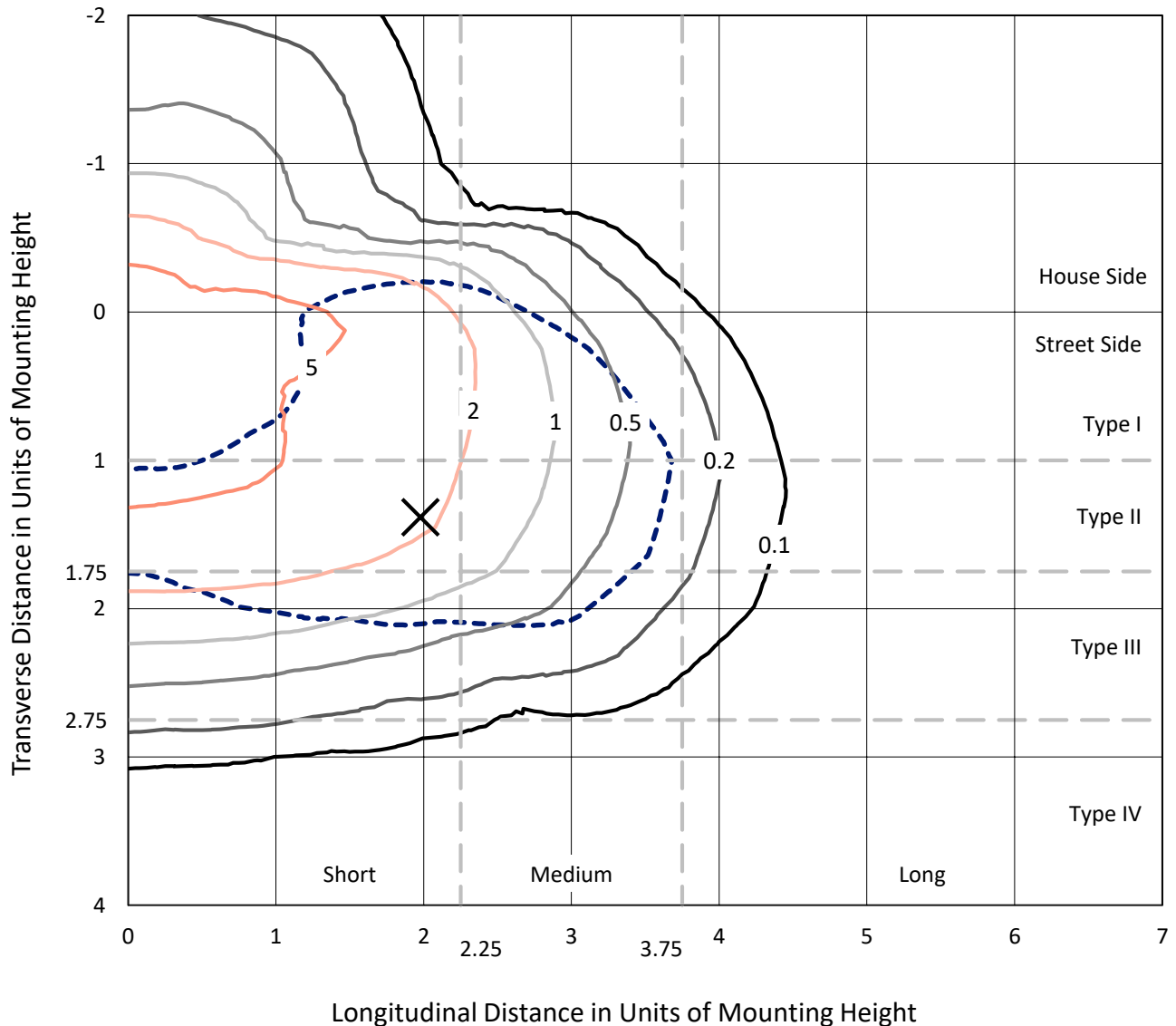


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Iso-Footcandle Lines of Horizontal Illumination

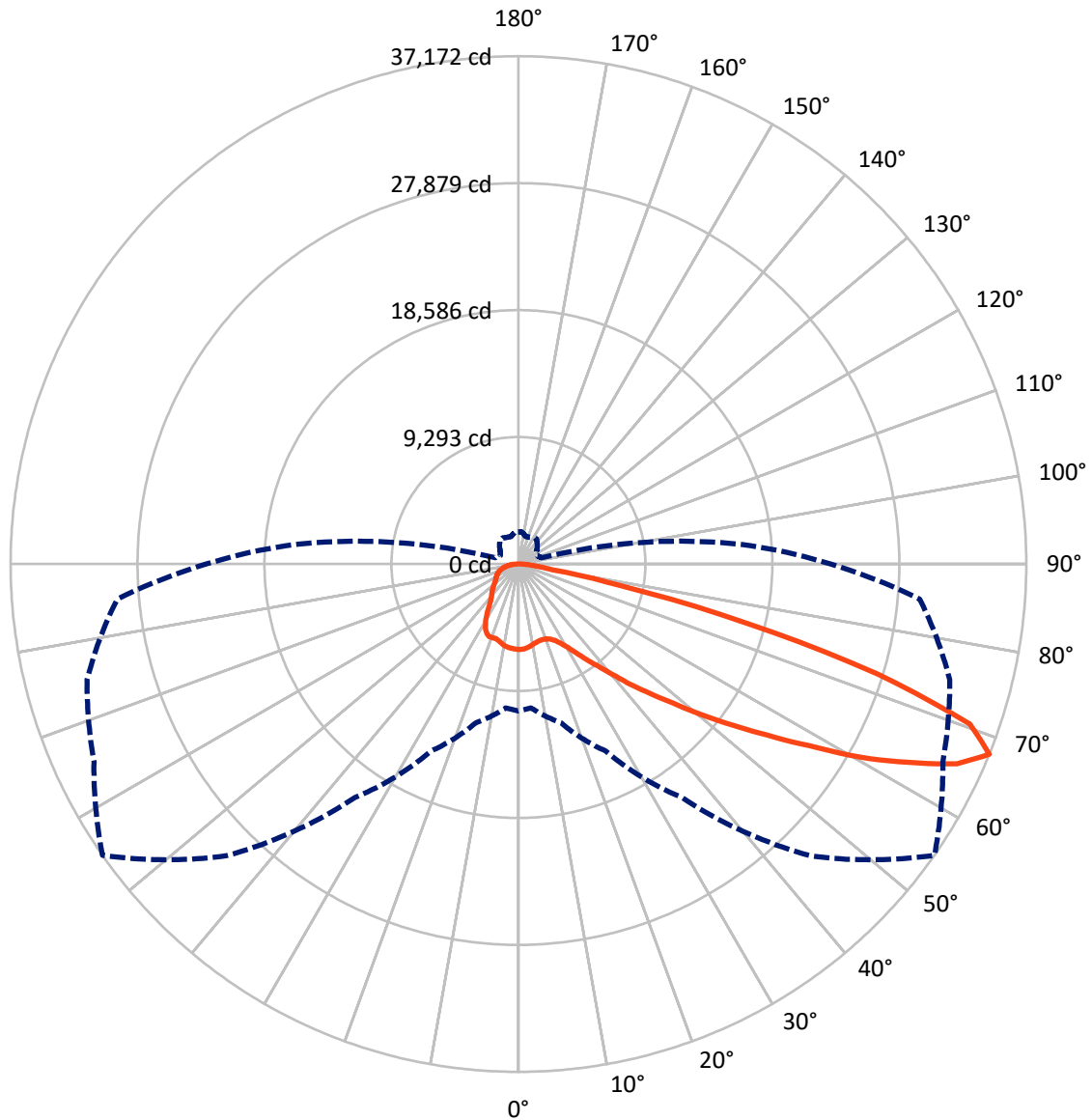
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10958.3	0.0	10958.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	39769.6	0.0	39769.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	50727.9	0.0	50727.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.9	1.2
10°-20°	1653.6	3.3
20°-30°	2770.0	5.5
30°-40°	4555.0	9.0
40°-50°	7667.5	15.1
50°-60°	12068.1	23.8
60°-70°	14402.0	28.4
70°-80°	6184.5	12.2
80°-90°	843.2	1.7
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°	50727.9	100.0
0°-180°	50727.9	100.0



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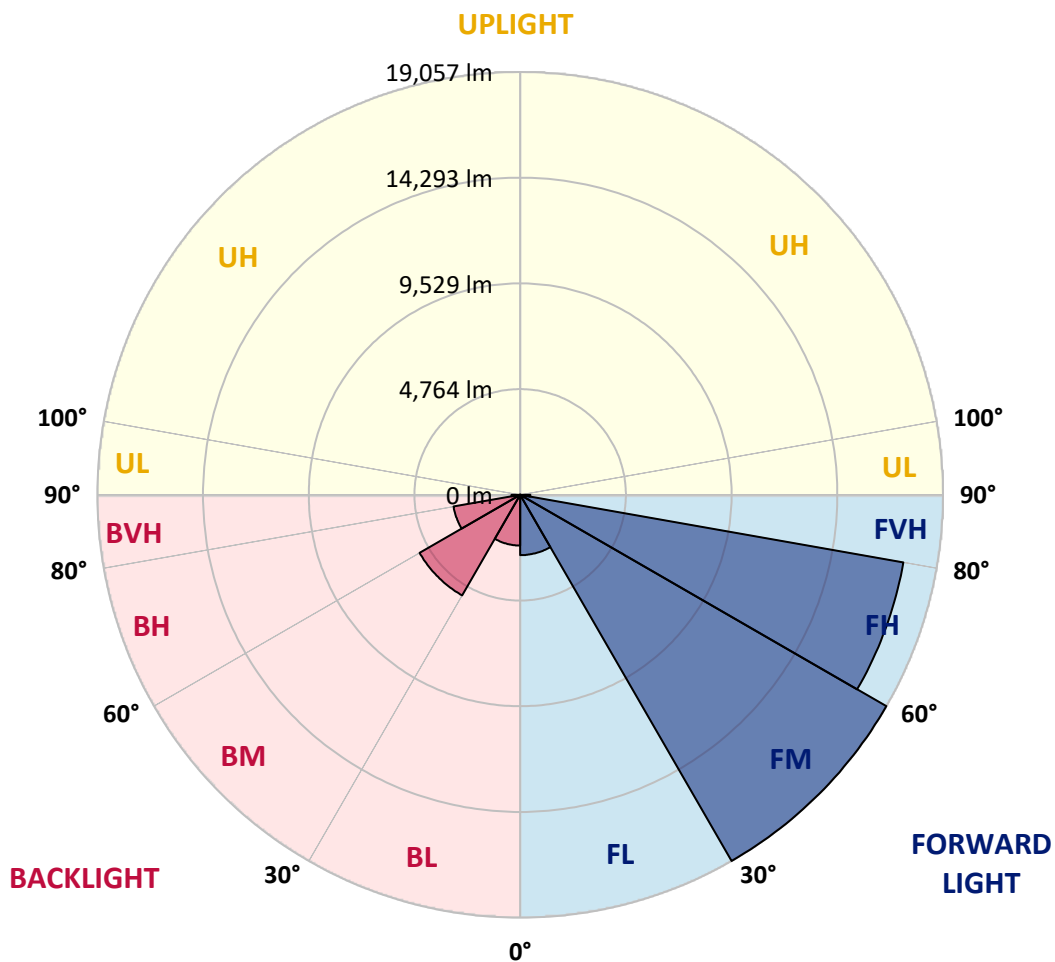
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2719.1	5.4			
FM	(30°-60°)	19057.1	37.6			
FH	(60°-80°)	17536.9	34.6			G5
FVH	(80°-90°)	456.4	0.9			G3/500
BL	(0°-30°)	2288.3	4.5	B3/2500		
BM	(30°-60°)	5233.6	10.3	B4/8500		
BH	(60°-80°)	3049.7	6.0	B4/5000		G4/5000
BVH	(80°-90°)	386.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3
2.5°	6201.4	6203.9	6208.7	6228.4	6245.5	6240.5	6243.0	6233.2	6230.9	6216.1	6230.9
5°	6122.9	6130.4	6132.8	6164.7	6184.2	6189.1	6181.7	6169.6	6154.8	6140.2	6147.6
7.5°	5944.2	5963.8	5966.2	6010.3	6042.1	6083.9	6086.2	6088.7	6081.3	6071.6	6086.2
10°	5831.3	5836.3	5833.9	5865.8	5890.2	5936.8	5963.8	6010.3	6030.0	6034.8	6044.5
12.5°	5824.2	5819.2	5811.9	5811.9	5804.5	5824.2	5873.1	5939.2	5985.8	6000.5	6012.7
15°	5902.5	5900.0	5875.5	5838.8	5792.2	5777.4	5819.2	5892.7	5954.0	5985.8	5998.1
17.5°	6078.9	6064.2	6025.0	5941.7	5841.1	5802.1	5807.0	5868.2	5939.2	5980.8	5993.1
20°	6402.3	6402.3	6318.9	6162.3	5983.3	5890.2	5846.1	5882.9	5951.5	6007.9	6025.0
22.5°	6961.0	6965.8	6826.2	6568.9	6267.6	6069.0	5958.8	5951.5	6032.4	6096.1	6115.7
25°	7752.4	7732.8	7536.7	7169.3	6711.1	6382.6	6191.6	6147.6	6216.1	6287.1	6311.6
27.5°	8673.7	8602.6	8369.8	7926.4	7333.4	6853.1	6559.2	6488.1	6554.3	6635.2	6659.6
30°	9585.0	9511.6	9234.8	8749.6	8090.5	7482.8	7061.3	6946.2	7039.4	7154.6	7169.3
32.5°	10496.5	10496.5	10187.9	9621.8	8903.9	8235.0	7730.4	7593.2	7747.4	7887.1	7919.0
35°	11586.9	11591.8	11292.9	10611.7	9839.9	9131.8	8575.6	8475.1	8707.9	8805.9	8881.9
37.5°	12927.1	12954.1	12569.4	11746.1	10900.8	10156.0	9494.5	9357.3	9589.9	9857.0	10102.1
40°	14375.1	14409.5	13985.6	12971.3	12126.0	11346.9	10631.4	10383.9	10770.9	11280.6	11596.7
42.5°	15757.1	15933.4	15524.2	14480.6	13571.6	12765.5	12040.2	11680.0	12165.1	12934.4	13208.9
45°	17754.0	17881.4	17168.3	16222.6	15367.6	14465.9	13505.4	13125.6	13804.3	14774.6	14830.8
47.5°	19084.4	18988.8	18626.3	18038.1	17496.6	16653.9	15208.2	14791.8	15693.4	16835.1	16519.1
50°	19792.5	19821.9	19773.0	19807.2	19826.9	19297.6	17295.7	16725.0	17800.5	19180.0	18452.3
52.5°	20454.0	20258.0	20419.7	21223.4	22193.6	21997.7	19567.2	18971.8	20059.6	21782.1	20495.6
55°	20439.3	20140.4	20667.2	22085.9	24190.5	24416.0	22117.8	21431.8	22448.6	24572.9	22661.7
57.5°	19716.5	19731.4	20542.4	22399.4	25582.3	26689.8	25077.5	24048.4	24982.0	27400.3	24639.0
60°	18721.8	18856.5	20025.2	22348.0	26697.1	28554.3	28708.8	26868.7	27464.1	29970.5	26275.8
62.5°	17116.9	17259.0	18871.2	21813.9	26528.0	30350.3	31992.0	30068.5	30058.7	31528.9	26755.9
65°	14585.9	14544.3	16237.4	19817.0	25109.5	31678.3	35253.2	32834.8	32013.9	31553.3	25790.6
67.5°	10756.2	10570.0	12023.0	15093.1	20870.6	30191.0	37171.7	34275.5	32680.5	29478.2	22840.6
70°	5581.4	5395.3	6571.5	8813.4	13725.9	23563.4	35047.4	33530.7	31207.8	24710.0	17893.7
72.5°	2386.4	2354.5	2832.4	3866.3	6640.0	13591.1	27481.2	29022.4	26777.9	18410.7	12302.4
75°	1604.8	1595.1	1774.0	2107.2	2986.8	5515.4	17197.8	20601.1	19591.7	11415.4	6919.4
77.5°	1259.5	1247.1	1352.5	1514.3	1935.7	2175.8	7632.3	11060.1	10236.8	4969.0	3028.5
80°	985.0	975.2	1041.3	1129.4	1391.7	1372.2	2511.4	4400.4	3405.7	1903.8	1472.5
82.5°	776.8	776.8	830.7	833.1	987.4	935.9	1310.8	1938.2	1700.4	1109.9	901.7
85°	710.6	710.6	767.0	622.3	644.4	590.5	813.4	1149.1	1078.1	455.7	392.0
87.5°	357.7	348.0	644.4	551.3	350.3	313.6	397.0	556.2	597.8	252.3	196.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3	6255.3
2.5°	6226.0	6223.5	6228.4	6230.9	6250.3	6277.4	6289.7	6306.7	6316.5	6311.6
5°	6152.4	6157.3	6176.8	6191.6	6226.0	6270.0	6294.6	6314.0	6331.3	6323.9
7.5°	6091.1	6103.4	6132.8	6145.0	6164.7	6176.8	6174.4	6181.7	6196.5	6179.4
10°	6056.8	6071.6	6093.7	6076.5	6030.0	5963.8	5902.5	5870.7	5880.5	5868.2
12.5°	6022.5	6042.1	6025.0	5944.2	5814.3	5728.5	5682.0	5686.9	5708.9	5713.8
15°	6003.0	6010.3	5936.8	5784.8	5652.6	5640.3	5664.8	5660.0	5662.3	5662.3
17.5°	6003.0	5983.3	5846.1	5694.1	5637.9	5615.8	5539.8	5444.3	5402.6	5387.9
20°	6034.8	5983.3	5816.7	5716.3	5593.7	5405.1	5204.2	5027.8	4949.3	4927.4
22.5°	6130.4	6042.1	5900.0	5726.1	5378.2	5062.0	4743.5	4532.8	4390.7	4366.2
25°	6323.9	6226.0	6064.2	5596.3	5035.1	4584.3	4221.7	3986.5	3844.3	3824.8
27.5°	6662.0	6598.3	6152.4	5309.5	4579.4	4096.7	3761.1	3579.7	3474.4	3467.0
30°	7171.7	7139.8	6108.2	4885.6	4018.3	3623.9	3462.1	3356.7	3278.4	3275.8
32.5°	7985.2	7727.8	5963.8	4368.6	3506.3	3288.2	3222.0	3158.4	3097.0	3097.0
35°	9031.4	8203.2	5689.3	3814.9	3195.0	3101.9	3018.7	2918.1	2837.2	2832.4
37.5°	10261.2	8497.2	5196.9	3369.1	3047.9	2977.0	2854.5	2704.9	2562.9	2538.4
40°	11503.5	8585.5	4503.5	3094.7	2955.0	2851.9	2702.6	2526.2	2389.0	2381.5
42.5°	12642.9	8416.4	3768.4	2905.8	2861.8	2724.6	2567.7	2411.1	2303.2	2300.6
45°	13598.5	7977.8	3151.0	2727.1	2763.7	2609.4	2469.8	2342.4	2259.1	2241.9
47.5°	14497.7	7357.8	2717.3	2538.4	2665.8	2545.7	2428.1	2308.0	2227.2	2215.0
50°	15541.4	6689.0	2413.4	2354.5	2580.0	2523.7	2462.4	2337.5	2202.7	2188.0
52.5°	16805.9	6110.7	2175.8	2192.9	2513.8	2553.2	2550.6	2420.8	2185.5	2166.0
55°	18217.1	5468.8	1996.9	2060.6	2487.0	2607.1	2572.7	2499.2	2200.3	2170.8
57.5°	19606.2	4719.1	1872.0	1960.1	2447.7	2602.1	2467.4	2362.0	2234.5	2192.9
60°	20647.6	3712.1	1776.4	1872.0	2362.0	2521.3	2352.1	2212.5	2227.2	2195.4
62.5°	20716.3	2869.1	1661.2	1796.0	2232.1	2440.3	2276.2	2146.4	2259.1	2229.7
65°	19498.5	2168.4	1551.0	1705.3	2092.4	2389.0	2202.7	2109.6	2325.3	2293.4
67.5°	16416.2	1744.5	1457.9	1612.2	1952.7	2281.2	2136.6	2075.4	2384.0	2327.7
70°	11851.5	1487.2	1367.2	1499.5	1827.8	2158.5	2077.8	2014.0	2224.7	2136.6
72.5°	7296.7	1288.8	1264.3	1350.1	1732.3	2031.2	1989.6	1898.8	2004.3	1933.2
75°	3643.4	1117.3	1149.1	1203.0	1597.5	1886.6	1842.6	1751.9	1766.5	1751.9
77.5°	1744.5	955.5	1014.4	1056.0	1423.5	1722.5	1675.9	1582.9	1565.7	1568.1
80°	1105.0	798.8	855.0	884.6	1271.6	1531.4	1484.8	1391.7	1587.8	1472.5
82.5°	690.9	649.3	663.9	717.8	1107.5	1332.8	1271.6	1188.4	1430.9	1132.0
85°	382.1	453.3	472.9	519.4	852.6	1114.8	1053.6	948.3	850.2	835.6
87.5°	227.9	269.5	276.9	311.2	573.4	806.0	713.1	676.2	561.1	558.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)