

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: P194042

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-T3R-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21976 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 258  
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

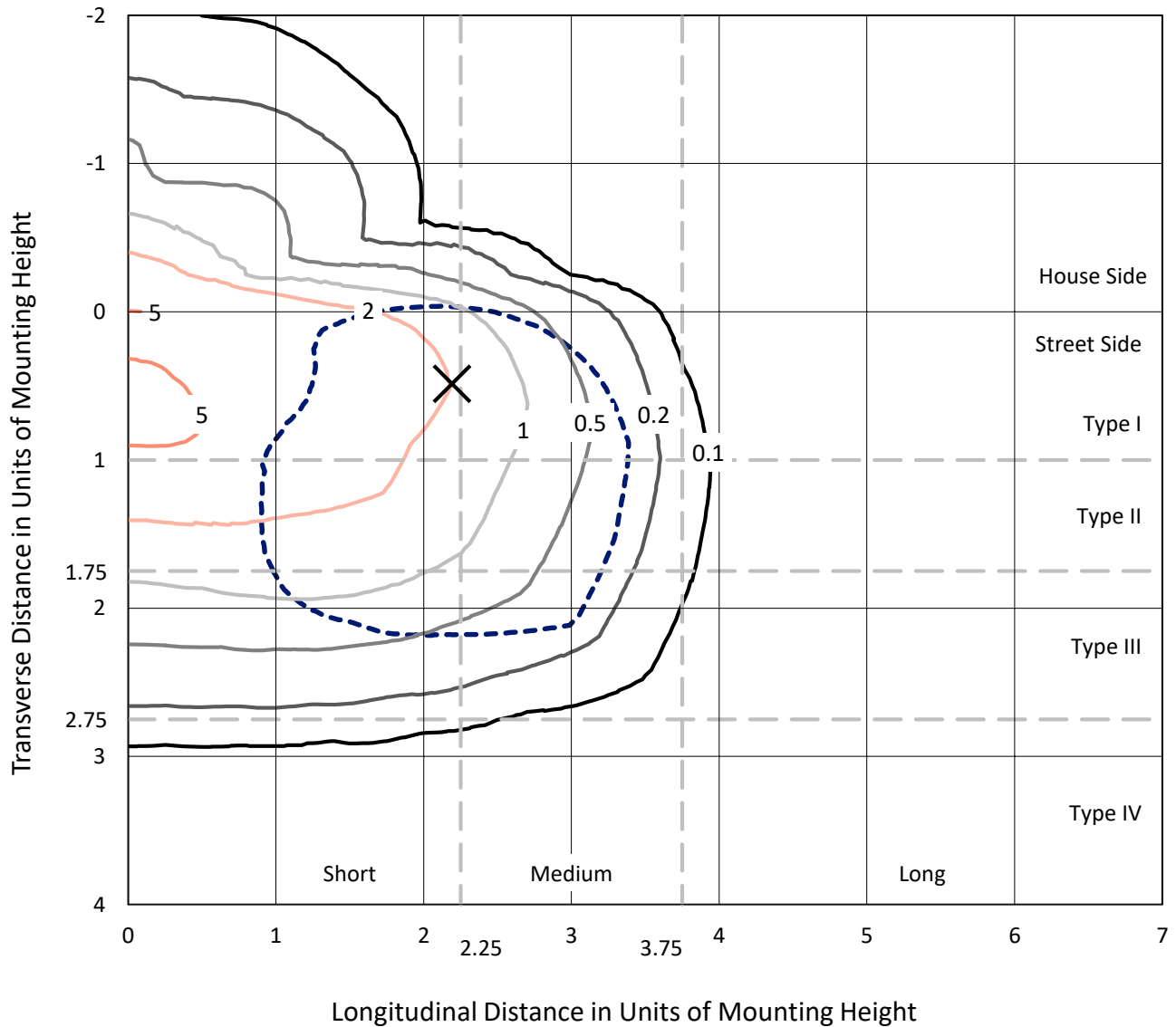


REPORT NUMBER: P194042

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3R-8030-1200

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

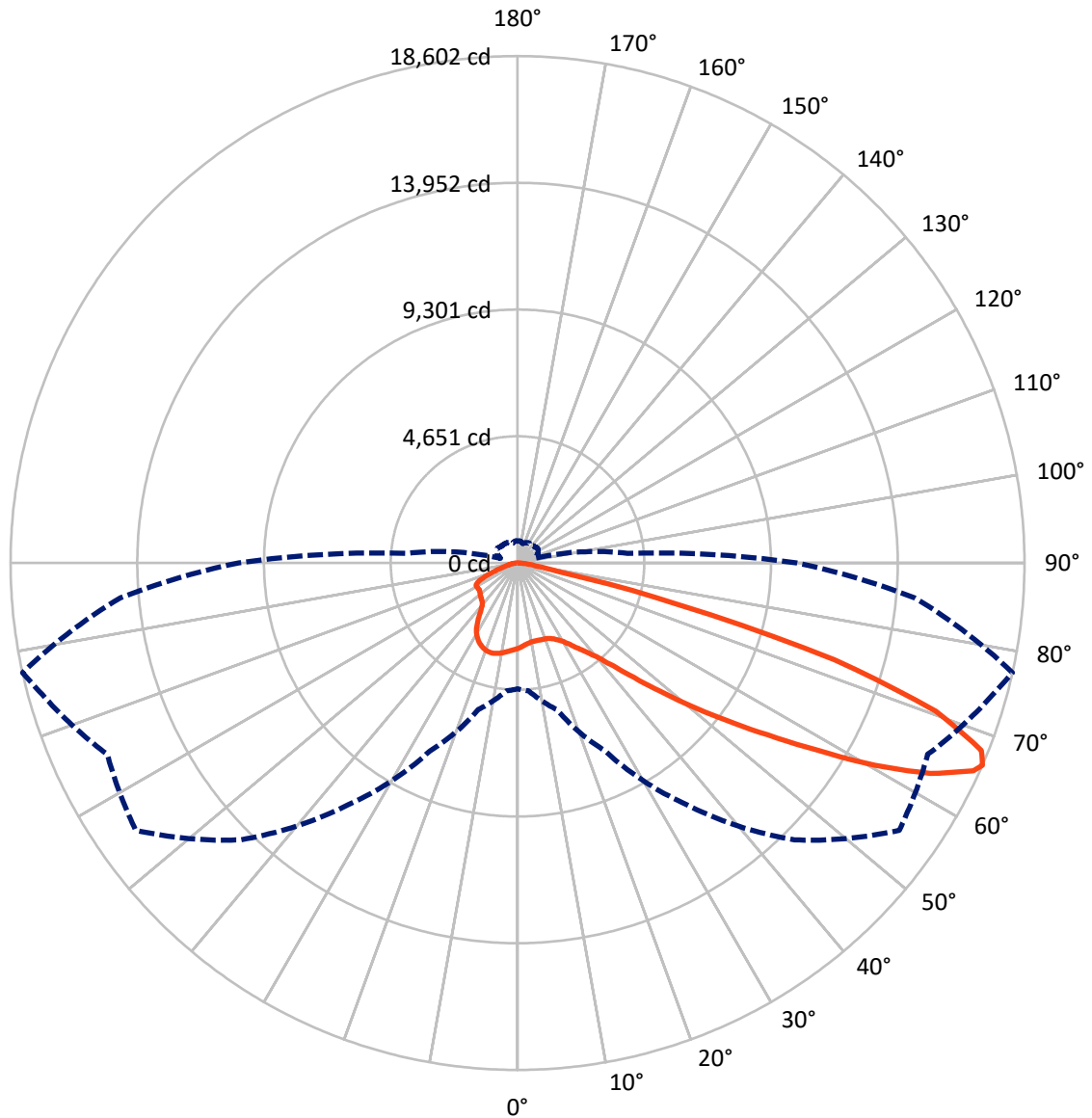


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P194042

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3R-8030-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P194042

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3R-8030-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3754.5	0.0	3754.5
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	18221.5	0.0	18221.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	21976.0	0.0	21976.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.8	1.3
10°-20°	789.3	3.6
20°-30°	1347.1	6.1
30°-40°	2156.5	9.8
40°-50°	3331.6	15.2
50°-60°	4725.3	21.5
60°-70°	6321.2	28.8
70°-80°	2745.2	12.5
80°-90°	279.9	1.3
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°	21976.0	100.0
0°-180°	21976.0	100.0



REPORT NUMBER: P194042

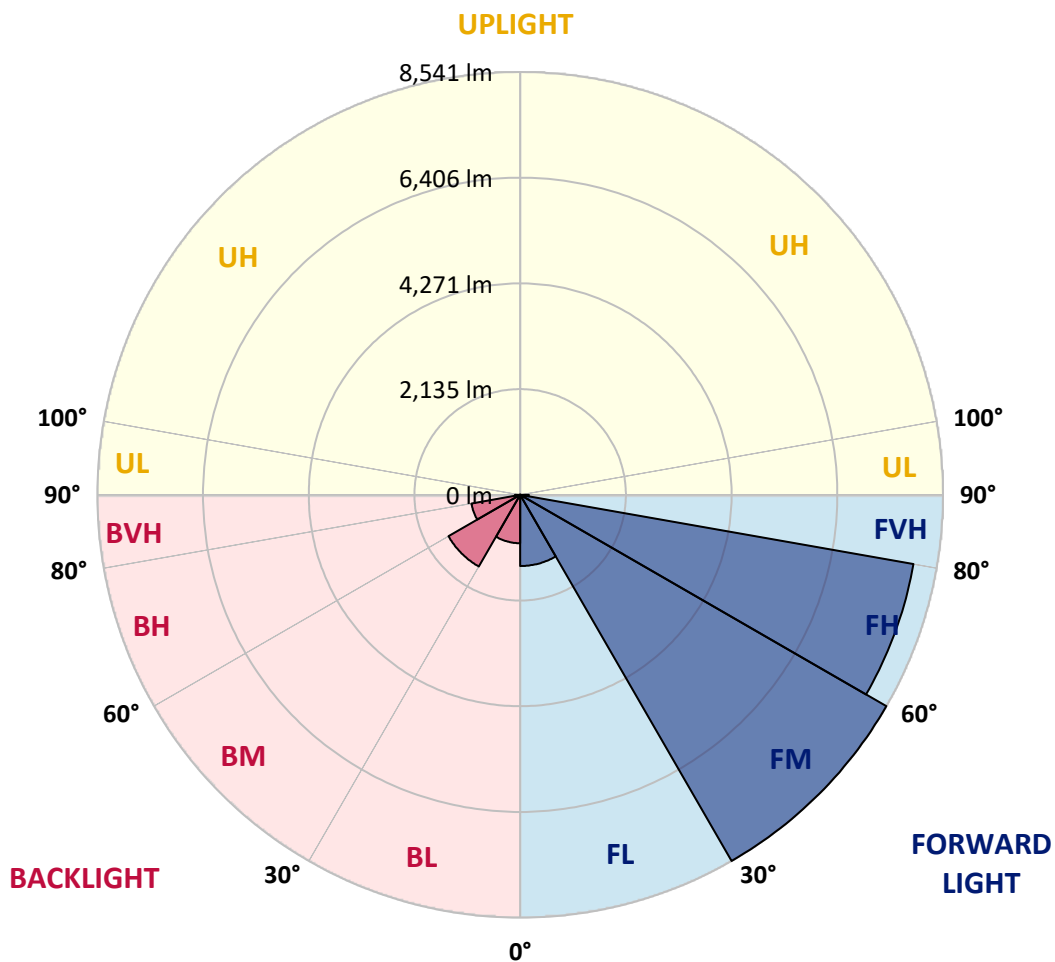
CATALOG NUMBER: GLEON-AF-04-LED-E1-T3R-8030-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.4	6.5			
FM	(30°-60°)	8541.0	38.9			
FH	(60°-80°)	8066.5	36.7			G4/12000
FVH	(80°-90°)	175.6	0.8			G2/225
BL	(0°-30°)	977.8	4.4	B2/1000		
BM	(30°-60°)	1672.4	7.6	B2/2500		
BH	(60°-80°)	999.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	104.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





REPORT NUMBER: P194042

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3R-8030-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7
2.5°	2770.3	2789.0	2804.6	2819.1	2848.2	2896.0	2951.0	2995.7	3060.0	3072.5	3106.8
5°	2515.9	2515.9	2528.4	2550.2	2589.7	2661.3	2736.1	2835.8	2975.9	3009.2	3100.5
7.5°	2392.4	2393.4	2400.7	2419.4	2453.6	2519.1	2601.1	2718.4	2908.4	2963.5	3119.2
10°	2438.1	2427.7	2412.1	2402.8	2407.9	2446.4	2524.2	2655.1	2866.9	2937.5	3160.8
12.5°	2693.5	2673.8	2619.8	2548.1	2479.6	2451.6	2497.2	2625.0	2849.3	2931.3	3215.8
15°	3110.9	3102.6	3001.9	2853.4	2687.3	2548.1	2517.0	2613.5	2851.3	2938.6	3281.2
17.5°	3634.2	3622.8	3489.9	3273.9	3002.9	2731.9	2586.5	2622.9	2858.6	2951.0	3344.5
20°	4162.8	4127.5	3984.2	3726.7	3378.8	2982.2	2701.8	2646.8	2867.9	2964.5	3411.0
22.5°	4557.3	4528.3	4399.5	4149.3	3748.5	3271.9	2856.5	2688.3	2898.1	3004.0	3493.0
25°	4904.2	4906.2	4778.5	4536.6	4122.3	3579.2	3055.9	2799.4	2974.9	3085.0	3605.2
27.5°	5333.0	5308.1	5188.7	4948.8	4491.9	3889.7	3296.8	2952.0	3089.1	3200.2	3752.6
30°	5845.9	5828.3	5690.2	5418.1	4902.1	4223.0	3571.9	3129.6	3236.6	3351.8	3945.8
32.5°	6449.2	6440.9	6297.6	5947.7	5375.6	4615.5	3894.9	3364.3	3456.7	3576.1	4223.0
35°	7157.4	7158.4	6989.2	6568.6	5893.7	5072.4	4261.4	3666.4	3724.6	3849.2	4553.2
37.5°	7593.5	7646.5	7583.1	7154.3	6480.4	5583.2	4737.0	4067.2	4029.9	4155.5	4907.3
40°	7687.0	7751.3	7951.7	7733.7	7136.6	6146.0	5158.6	4452.5	4405.7	4559.4	5363.1
42.5°	7556.1	7645.4	8069.1	8222.7	7833.4	6839.7	5725.5	5024.6	4965.4	5172.1	5930.1
45°	7478.2	7544.7	8034.8	8477.1	8437.7	7623.6	6447.2	5743.2	5721.3	5992.4	6584.2
47.5°	7343.3	7403.5	7874.9	8536.3	8792.8	8342.2	7314.2	6621.6	6664.2	7019.3	7322.5
50°	7415.9	7440.9	7696.3	8385.8	8895.6	8868.6	8283.0	7639.2	7784.6	8227.9	8158.4
52.5°	7405.6	7469.9	7675.5	8138.6	8909.1	9193.6	9237.2	8774.1	9080.4	9589.2	9085.6
55°	5987.2	6105.5	7431.5	8076.3	8956.9	9512.4	10086.6	9970.3	10541.4	11134.3	10132.3
57.5°	5717.2	5792.0	6527.1	8207.2	9210.2	10120.9	11031.5	11286.9	12242.2	12930.7	11407.4
60°	5664.2	5756.7	6517.8	8367.1	9724.2	11112.5	12432.2	12880.8	14311.7	15065.5	12886.0
62.5°	5499.1	5598.8	6456.5	8346.3	10454.2	12484.2	14225.5	14575.4	16274.2	17007.2	14122.7
65°	4975.8	5069.3	5957.1	8010.9	10946.4	13948.2	16347.9	16128.8	17823.4	18374.8	14739.5
66°	4617.6	4708.9	5563.5	7616.3	10832.1	14363.6	17099.7	16609.6	18170.2	18602.2	14619.0
67.5°	3962.4	4034.0	4799.3	6732.7	10224.7	14479.9	17732.0	16970.9	18206.6	18359.2	13930.6
70°	2503.5	2524.2	3119.2	4647.7	7739.9	12557.9	16769.5	16073.8	16705.1	16291.8	11678.4
72.5°	1086.1	1078.9	1497.3	2364.3	4381.9	8426.3	13565.1	13262.9	13104.1	12161.2	8175.0
75°	604.3	612.6	777.7	1097.5	1780.8	4138.9	8873.8	8491.7	7169.9	6118.0	3706.9
77.5°	484.9	496.3	644.8	778.8	799.5	1443.3	4152.4	3378.8	2034.1	1632.3	1030.1
80°	383.2	403.9	562.8	606.4	538.9	595.0	1341.6	1072.6	804.7	738.3	533.7
82.5°	303.2	317.7	482.8	459.0	376.9	400.8	642.7	626.1	523.3	476.6	308.4
85°	218.1	245.1	396.7	345.8	247.1	270.0	426.8	409.1	300.1	245.1	136.0
87.5°	89.3	116.3	280.4	229.5	138.1	125.6	212.9	200.4	142.3	103.8	67.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P194042

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3R-8030-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7	3131.7
2.5°	3128.6	3153.5	3185.7	3205.4	3215.8	3223.1	3234.5	3233.4	3236.6	3237.6	3241.8
5°	3149.3	3190.9	3237.6	3250.1	3250.1	3238.6	3227.2	3208.5	3201.3	3199.2	3201.3
7.5°	3203.3	3249.0	3289.5	3275.0	3243.8	3198.1	3139.0	3087.0	3059.0	3049.7	3047.6
10°	3271.9	3326.9	3343.5	3288.5	3197.1	3087.0	2969.7	2884.6	2835.8	2822.3	2818.1
12.5°	3354.9	3406.8	3384.0	3267.7	3098.5	2920.9	2758.9	2622.9	2521.1	2488.9	2486.9
15°	3446.3	3486.8	3406.8	3203.3	2951.0	2689.3	2400.7	2166.0	2039.3	1998.8	1995.7
17.5°	3531.5	3552.2	3393.4	3091.2	2734.0	2310.3	1927.2	1746.5	1702.9	1713.3	1715.4
20°	3604.1	3604.1	3347.7	2930.2	2392.4	1810.9	1569.0	1565.8	1597.0	1628.1	1634.4
22.5°	3684.1	3636.3	3267.7	2702.8	1908.5	1481.7	1446.4	1475.5	1510.8	1545.1	1550.3
25°	3782.7	3662.3	3156.6	2358.1	1500.4	1345.7	1359.2	1383.1	1400.7	1422.5	1425.7
27.5°	3892.8	3695.5	3010.2	1883.6	1302.1	1260.6	1270.9	1279.3	1277.2	1285.5	1287.6
30°	4024.7	3733.9	2809.8	1472.4	1220.1	1187.9	1169.2	1161.9	1161.9	1175.4	1180.6
32.5°	4201.2	3791.0	2522.2	1261.6	1180.6	1136.0	1075.7	1048.7	1059.1	1104.8	1115.2
35°	4395.4	3852.3	2132.8	1190.0	1172.3	1112.1	1018.6	968.8	969.8	1012.4	1025.9
37.5°	4607.2	3930.2	1706.0	1176.5	1191.0	1113.1	988.5	920.0	891.9	891.9	897.1
40°	4878.2	4010.1	1381.0	1185.8	1230.5	1125.6	972.9	881.6	802.6	804.7	808.9
42.5°	5231.2	4078.7	1206.6	1205.5	1278.2	1142.2	971.9	830.7	762.2	808.9	851.5
45°	5623.7	4112.9	1129.7	1223.2	1316.6	1152.6	955.3	822.4	767.3	906.5	987.5
47.5°	6075.4	4093.2	1087.2	1229.4	1326.0	1152.6	936.6	842.1	803.7	1049.8	1144.3
50°	6570.7	4036.1	1045.6	1217.0	1322.9	1150.5	954.3	861.8	817.2	1074.7	1140.1
52.5°	7153.2	3988.3	1002.0	1190.0	1301.1	1139.1	975.0	853.5	774.6	977.1	1022.8
55°	7817.8	4001.8	953.2	1151.5	1266.8	1117.3	967.7	820.3	730.0	860.8	888.8
57.5°	8667.2	4162.8	895.1	1102.7	1220.1	1080.9	941.8	804.7	716.5	780.8	797.5
60°	9615.2	4443.1	822.4	1053.9	1161.9	1022.8	922.1	812.0	722.7	774.6	782.9
62.5°	10310.9	4606.2	760.1	982.3	1083.0	958.4	897.1	821.3	739.3	796.4	794.3
65°	10499.9	4338.3	682.2	877.4	976.1	890.9	866.0	831.7	746.6	814.1	804.7
66°	10235.1	4049.6	647.9	828.6	922.1	857.7	850.4	830.7	743.5	816.1	800.6
67.5°	9592.3	3457.7	588.7	757.0	835.9	807.8	825.5	821.3	735.2	814.1	792.3
70°	7823.0	2359.1	503.6	630.3	695.7	711.3	777.7	788.1	708.2	777.7	730.0
72.5°	5465.9	1437.1	445.5	489.1	562.8	606.4	712.3	742.4	671.8	679.1	633.4
75°	2641.6	763.2	403.9	379.0	437.1	506.7	633.4	680.1	614.7	568.0	551.4
77.5°	823.4	466.2	342.7	305.3	342.7	409.1	529.6	596.0	547.2	475.6	469.3
80°	442.3	342.7	263.7	245.1	271.0	320.9	416.4	497.4	470.4	426.8	381.1
82.5°	291.8	222.2	195.2	190.0	206.6	245.1	309.4	412.2	412.2	365.5	265.8
85°	150.6	136.0	133.9	133.9	144.3	163.0	210.8	317.7	338.5	193.1	159.9
87.5°	74.8	77.9	72.7	75.8	81.0	80.0	100.7	159.9	191.1	117.3	97.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)