

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: P191523

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191523  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-T4FT-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24736 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

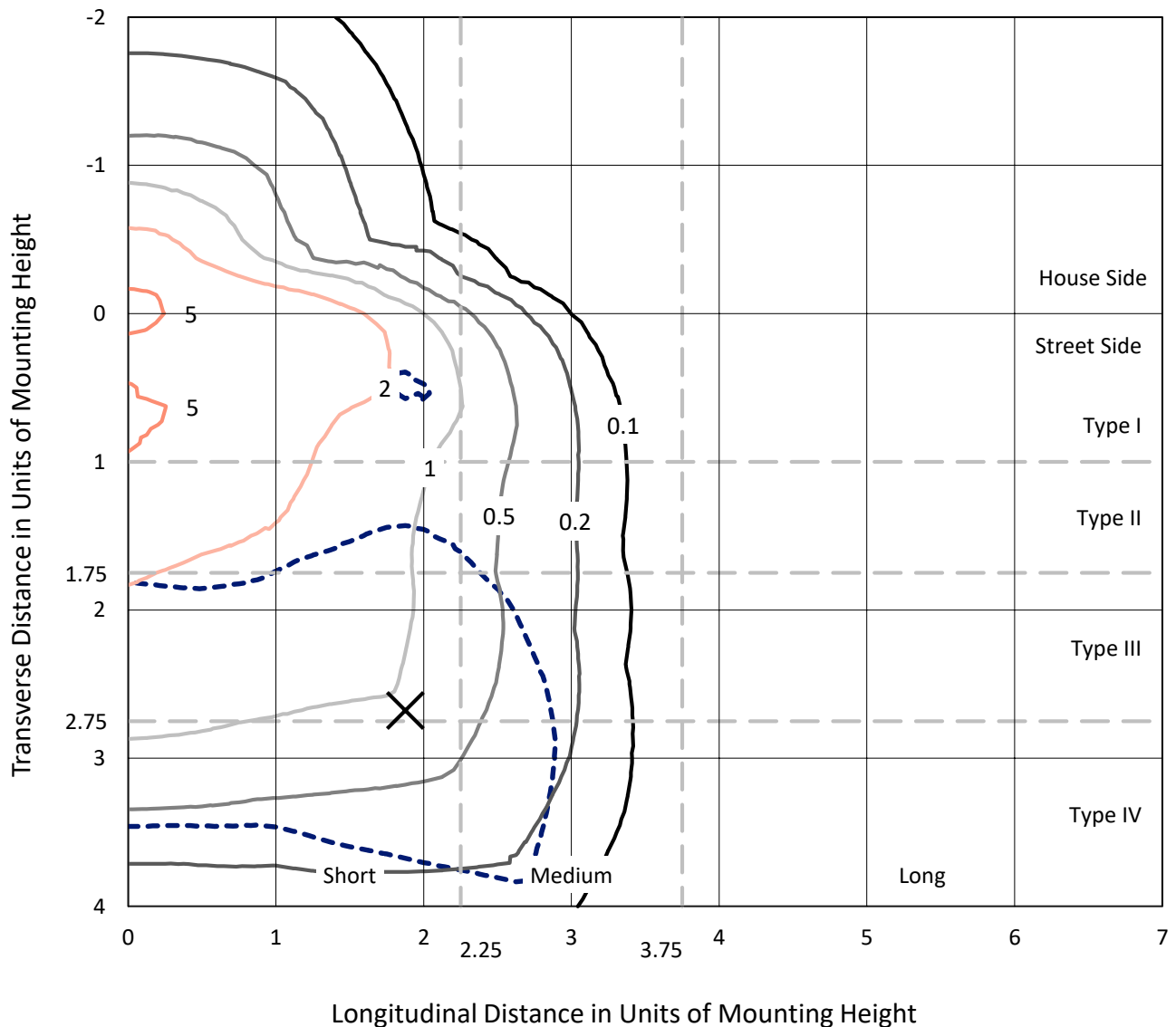
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

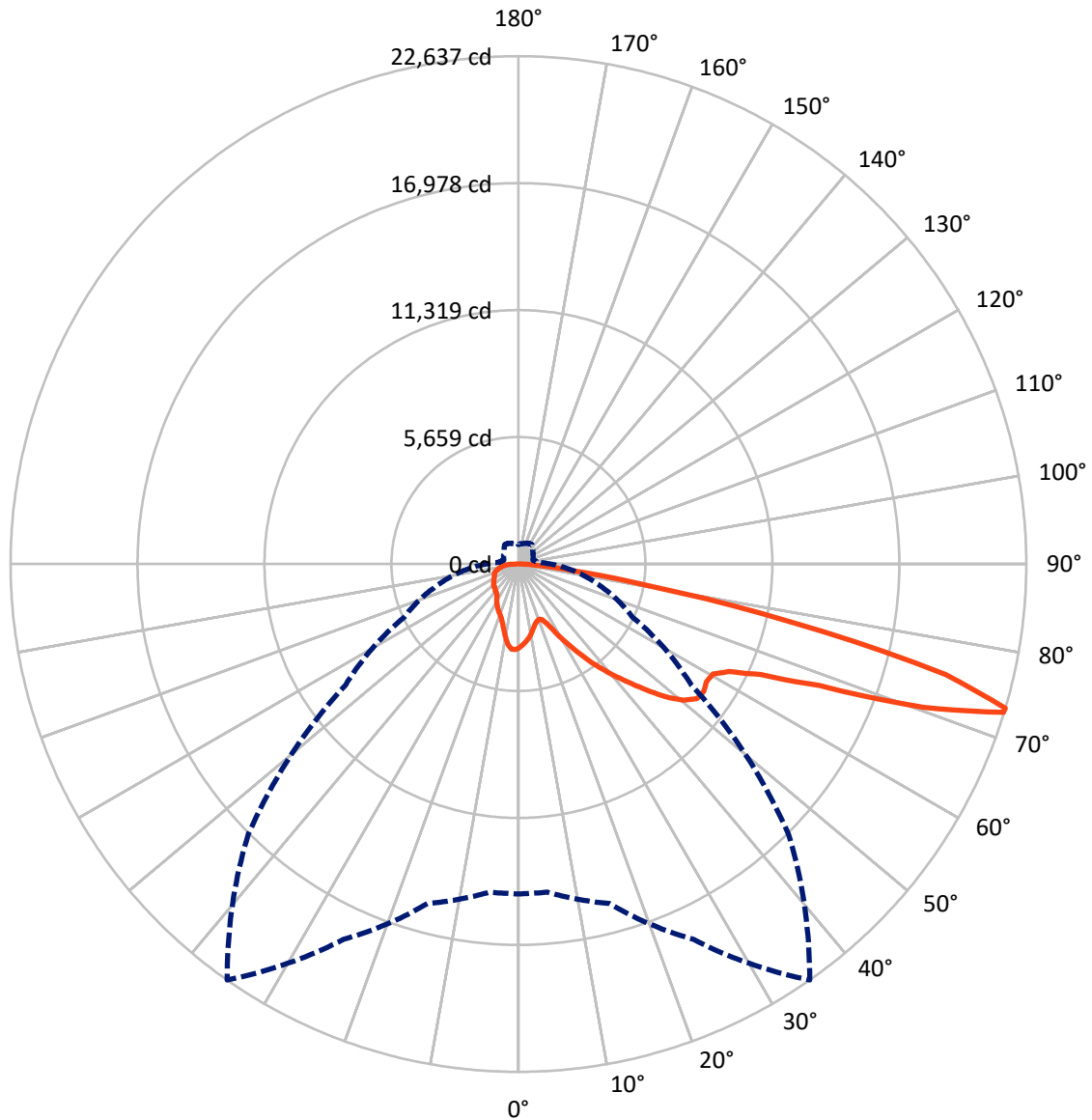
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4717.8	0.0	4717.8
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	20018.1	0.0	20018.1
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	24736.0	0.0	24736.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.0	1.4
10°-20°	843.6	3.4
20°-30°	1363.7	5.5
30°-40°	2286.8	9.2
40°-50°	3525.0	14.3
50°-60°	4729.1	19.1
60°-70°	6300.1	25.5
70°-80°	4805.1	19.4
80°-90°	544.6	2.2
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°	24736.0	100.0
0°-180°	24736.0	100.0



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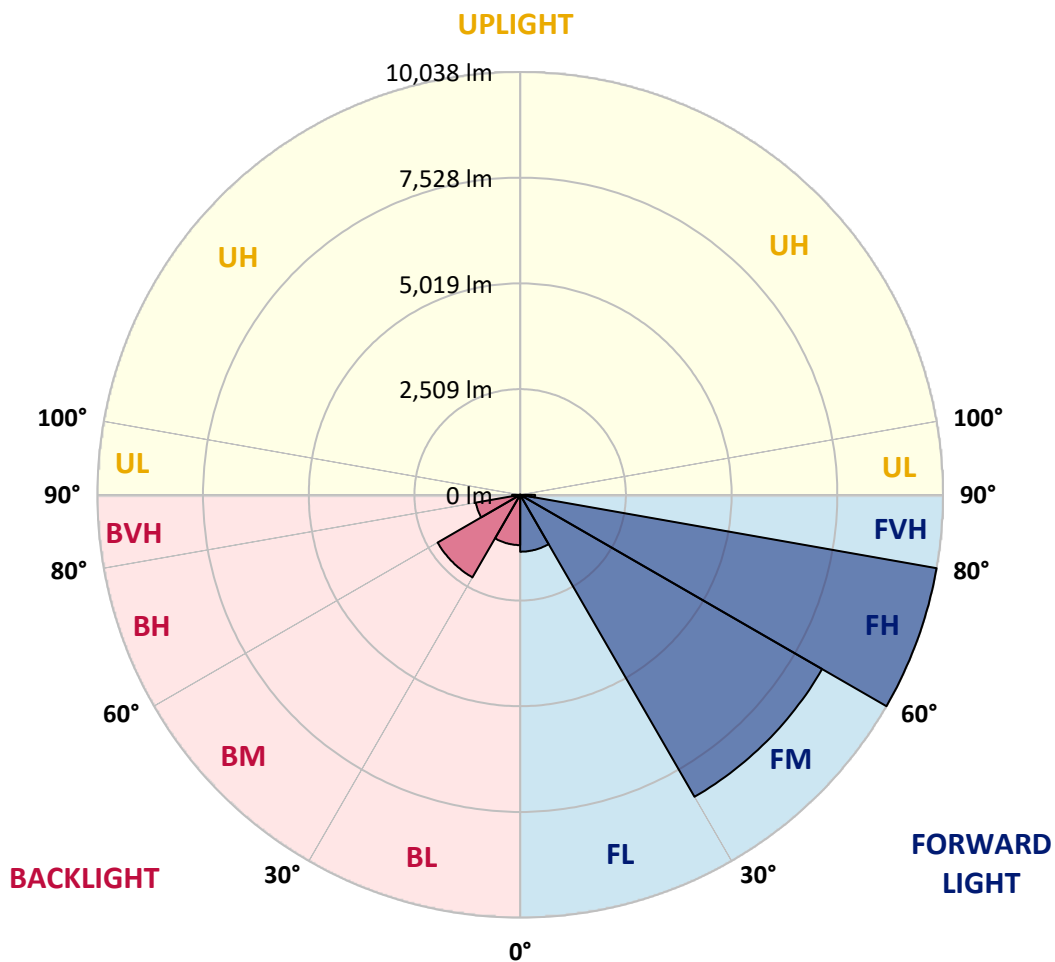
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1351.4	5.5			
FM	(30°-60°)	8276.8	33.5			
FH	(60°-80°)	10037.9	40.6			G4/12000
FVH	(80°-90°)	352.1	1.4			G3/500
BL	(0°-30°)	1193.8	4.8	B3/2500		
BM	(30°-60°)	2264.0	9.2	B2/2500		
BH	(60°-80°)	1067.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	192.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5
2.5°	3586.2	3593.2	3584.9	3595.7	3613.5	3632.5	3645.5	3664.5	3685.9	3715.6	3722.7
5°	3417.5	3428.1	3428.1	3447.1	3481.6	3512.5	3540.9	3571.8	3617.1	3668.1	3688.2
7.5°	3232.1	3238.0	3248.8	3277.3	3327.1	3371.1	3411.5	3461.4	3523.1	3590.9	3626.6
10°	3008.8	3017.2	3033.8	3074.2	3141.9	3202.4	3260.7	3329.6	3408.0	3492.3	3537.5
12.5°	2850.9	2848.5	2855.6	2885.3	2944.7	3018.3	3102.7	3190.6	3286.8	3385.4	3440.0
15°	2797.4	2784.4	2757.1	2749.9	2781.9	2855.6	2953.1	3061.1	3176.4	3295.1	3362.8
17.5°	2830.6	2808.1	2733.2	2678.6	2673.9	2729.6	2833.1	2954.2	3087.3	3232.1	3316.5
20°	3039.7	2986.3	2802.2	2675.0	2631.1	2658.4	2748.7	2876.9	3033.8	3226.2	3334.3
22.5°	3539.8	3461.4	3070.6	2834.2	2685.8	2652.5	2720.2	2856.8	3039.7	3299.8	3437.6
25°	4268.0	4156.4	3531.5	3231.0	2924.5	2747.5	2763.0	2903.1	3124.1	3470.9	3637.2
27.5°	4842.9	4770.4	4133.7	3790.4	3359.3	3004.1	2901.9	3019.5	3296.3	3751.3	3921.1
30°	5185.0	5141.0	4777.6	4424.8	3914.0	3412.7	3168.0	3238.0	3565.9	4139.7	4279.8
32.5°	5581.7	5555.6	5377.4	5053.2	4512.6	3949.6	3589.7	3564.8	3927.0	4606.4	4670.7
35°	5992.8	5984.4	5879.9	5647.1	5155.3	4657.6	4149.2	3980.5	4320.2	5091.1	5050.7
37.5°	6375.2	6360.9	6300.4	6164.9	5827.6	5417.9	4719.4	4407.0	4744.2	5554.4	5375.0
40°	7079.6	6967.9	6760.1	6657.9	6507.1	6058.0	5171.9	4804.9	5183.8	5996.3	5655.4
42.5°	7938.4	7756.7	7369.4	7229.3	7207.9	6562.9	5480.8	5191.0	5626.8	6434.6	5931.0
45°	8614.4	8443.2	8109.4	7932.5	8010.9	7020.2	5790.8	5603.1	6083.0	6894.3	6214.8
47.5°	9335.3	9066.9	8625.0	8678.5	8849.5	7452.6	6106.7	6046.2	6583.1	7408.6	6567.7
50°	9361.4	9156.0	8962.4	9281.8	9548.0	7850.5	6502.3	6510.7	7194.8	8056.0	7036.9
52.5°	8818.7	8774.7	9082.4	9584.8	9968.5	8165.3	6952.5	6990.5	7977.6	8799.6	7552.3
55°	8628.6	8578.7	8933.8	9479.1	10025.5	8425.4	7440.7	7509.6	8924.3	9583.6	8054.8
57.5°	9091.9	8981.4	9005.1	9429.2	9886.5	8710.5	7972.9	8111.9	9953.0	10269.0	8378.0
60°	10386.6	10150.2	9701.3	9690.5	9961.4	9138.1	8588.2	8758.1	11022.1	10596.8	8252.0
62.5°	12202.8	11966.5	11125.4	10577.8	10537.4	9843.8	9343.6	9388.8	11639.7	10152.6	7483.5
65°	14168.7	13957.2	13017.7	12244.4	11871.4	11012.6	10221.5	9670.4	11437.8	8930.3	6138.8
67.5°	16555.1	16328.2	15520.5	14806.6	14447.9	12898.9	10838.0	9400.7	10156.2	6918.1	4412.9
70°	18224.1	17992.5	17674.1	18252.6	19130.4	15620.3	10917.5	8304.3	7585.6	4598.2	2656.1
72.5°	16046.7	15938.6	16519.5	18955.8	22612.0	17271.4	9868.7	6046.2	4405.7	2441.1	1537.1
73°	14702.1	14678.3	15668.9	18462.8	22637.0	17017.2	9409.0	5619.8	3778.6	2159.6	1405.2
75°	6639.0	6830.1	9001.6	14102.2	19667.4	14022.6	6622.3	3223.8	2134.6	1492.0	1060.8
77.5°	1595.3	1661.8	2816.4	6697.2	12420.2	8356.6	3000.5	1594.1	1364.8	1053.6	774.5
80°	679.4	702.1	1084.5	2474.3	5847.8	3365.2	1382.6	1067.9	944.4	735.3	542.9
82.5°	377.8	401.5	615.3	1122.5	2360.3	1147.4	843.4	743.6	621.2	443.0	352.8
85°	213.8	226.9	359.9	627.2	1000.1	460.8	504.8	494.2	350.5	228.1	173.4
87.5°	101.0	109.3	173.4	291.0	392.0	180.6	256.6	282.7	219.7	139.0	90.3
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°	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5	3733.5
2.5°	3731.0	3752.4	3777.3	3790.4	3802.3	3816.5	3830.8	3830.8	3833.2	3834.4
5°	3704.9	3748.9	3788.1	3804.7	3808.2	3808.2	3804.7	3785.7	3769.1	3776.2
7.5°	3650.3	3714.4	3747.7	3741.7	3696.6	3644.4	3600.4	3547.0	3519.6	3514.9
10°	3571.8	3645.5	3651.4	3592.1	3480.4	3368.8	3276.1	3185.8	3143.0	3132.4
12.5°	3485.2	3552.9	3514.9	3392.5	3213.2	3050.4	2932.8	2841.3	2800.9	2790.3
15°	3415.1	3461.4	3365.2	3172.8	2947.0	2774.9	2677.5	2609.8	2581.2	2572.9
17.5°	3378.3	3387.8	3212.0	2951.8	2711.8	2568.1	2507.6	2475.4	2464.8	2458.9
20°	3396.1	3329.6	3065.9	2746.3	2519.4	2418.5	2404.2	2395.9	2393.5	2389.9
22.5°	3485.2	3311.7	2931.7	2551.5	2350.7	2306.9	2318.7	2317.5	2315.1	2312.8
25°	3644.4	3327.1	2800.9	2366.2	2209.4	2199.9	2221.3	2221.3	2211.8	2211.8
27.5°	3854.6	3359.3	2654.9	2190.4	2081.1	2082.3	2098.9	2094.2	2083.5	2076.4
30°	4111.1	3379.4	2483.8	2032.4	1961.1	1956.4	1961.1	1940.9	1908.9	1906.5
32.5°	4373.7	3354.5	2285.5	1892.3	1834.0	1823.3	1819.8	1791.3	1754.5	1743.7
35°	4611.3	3263.0	2083.5	1780.5	1712.9	1689.1	1705.8	1696.3	1663.0	1654.7
37.5°	4784.6	3093.2	1901.8	1682.0	1626.2	1620.3	1630.9	1634.5	1595.3	1587.0
40°	4901.1	2862.7	1746.2	1598.9	1609.5	1587.0	1551.3	1526.3	1514.5	1511.0
42.5°	4995.0	2622.7	1615.4	1559.7	1613.1	1547.7	1470.6	1430.2	1451.6	1461.1
45°	5103.0	2388.8	1506.2	1511.0	1595.3	1502.6	1414.7	1375.6	1383.8	1386.2
47.5°	5251.5	2103.7	1388.6	1432.5	1535.9	1471.7	1380.3	1324.4	1285.2	1267.4
50°	5457.0	1766.3	1266.2	1344.7	1477.7	1449.2	1326.9	1267.4	1195.0	1178.3
52.5°	5599.5	1451.6	1165.2	1271.0	1425.4	1404.0	1284.1	1206.9	1130.9	1116.6
55°	5522.3	1205.6	1077.4	1189.1	1356.5	1348.2	1248.4	1145.1	1085.7	1073.8
57.5°	5136.2	1050.1	1009.7	1111.8	1272.1	1300.7	1200.9	1092.8	1050.1	1041.8
60°	4399.8	952.7	966.9	1059.6	1203.3	1253.2	1153.4	1064.3	1035.8	1029.9
62.5°	3413.9	887.3	934.9	1021.5	1149.8	1220.0	1127.3	1060.8	1050.1	1042.9
65°	2445.8	835.0	900.4	983.6	1101.1	1189.1	1117.8	1056.0	1058.3	1052.4
67.5°	1661.8	788.7	858.9	940.8	1053.6	1161.8	1104.7	1039.4	1069.1	1061.9
70°	1162.9	743.6	810.1	886.2	994.2	1123.7	1081.0	1014.5	1012.0	983.6
72.5°	907.6	684.3	743.6	810.1	918.2	1070.2	1033.4	958.6	919.4	889.7
73°	865.9	669.9	727.0	793.5	901.6	1057.2	1020.4	943.2	899.2	871.9
75°	716.3	608.1	660.4	719.9	830.3	995.4	956.3	873.1	817.2	800.7
77.5°	563.0	520.3	570.2	623.6	731.7	905.1	861.2	781.6	750.7	736.4
80°	417.0	431.2	475.2	522.6	634.3	808.9	769.8	690.2	828.0	793.5
82.5°	293.4	326.6	367.0	409.8	532.1	715.0	667.6	585.6	605.8	503.7
85°	173.4	213.8	251.9	288.7	383.7	592.7	551.2	466.9	382.5	364.7
87.5°	101.0	118.8	129.5	167.5	263.7	446.6	388.4	345.7	198.4	134.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)