

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: P269435

Luminaire Tested: **GLEON-AF-06-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269435  
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-06-LED-E1-T4FT-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 25139.7 lumens  
Efficiency: N/A  
Efficacy: 101.0 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): 249  
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

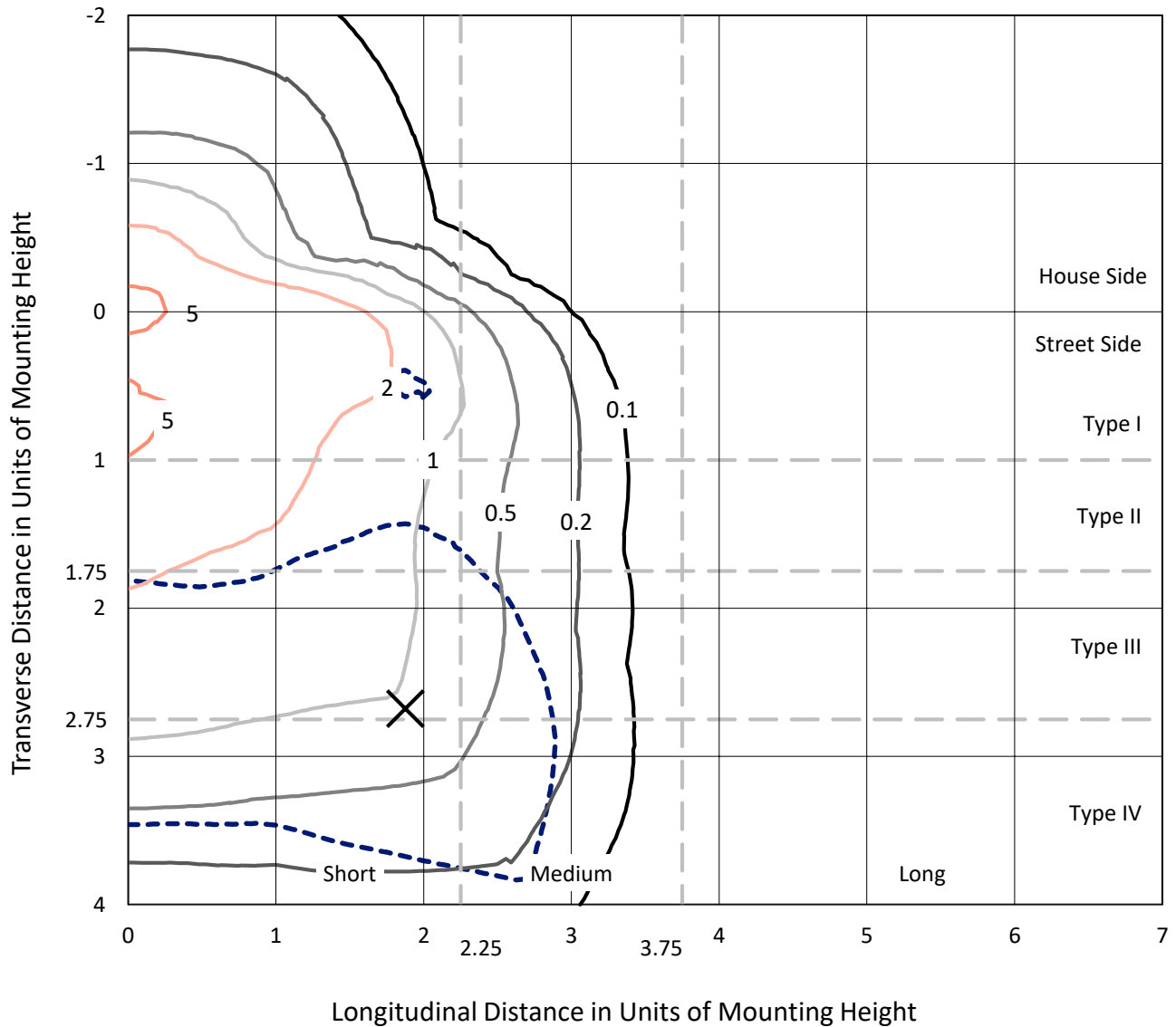


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

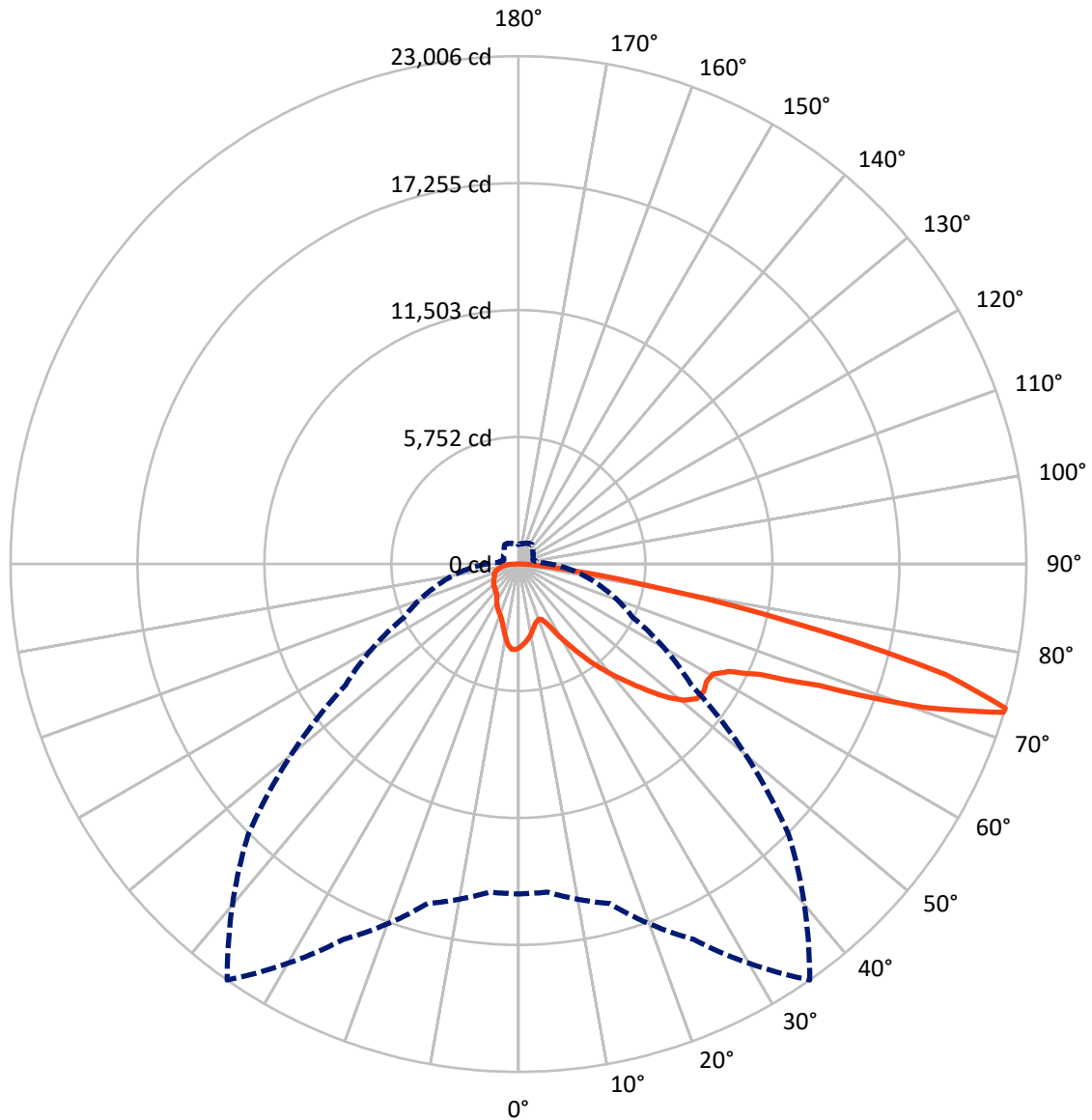


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - Non-Cutoff

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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	4794.8	0.0	4794.8
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	20344.8	0.0	20344.8
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	25139.7	0.0	25139.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.5	1.4
10°-20°	857.3	3.4
20°-30°	1386.0	5.5
30°-40°	2324.1	9.2
40°-50°	3582.5	14.3
50°-60°	4806.3	19.1
60°-70°	6403.0	25.5
70°-80°	4883.5	19.4
80°-90°	553.5	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°	25139.7	100.0
0°-180°	25139.7	100.0

**Coefficient of Utilization**



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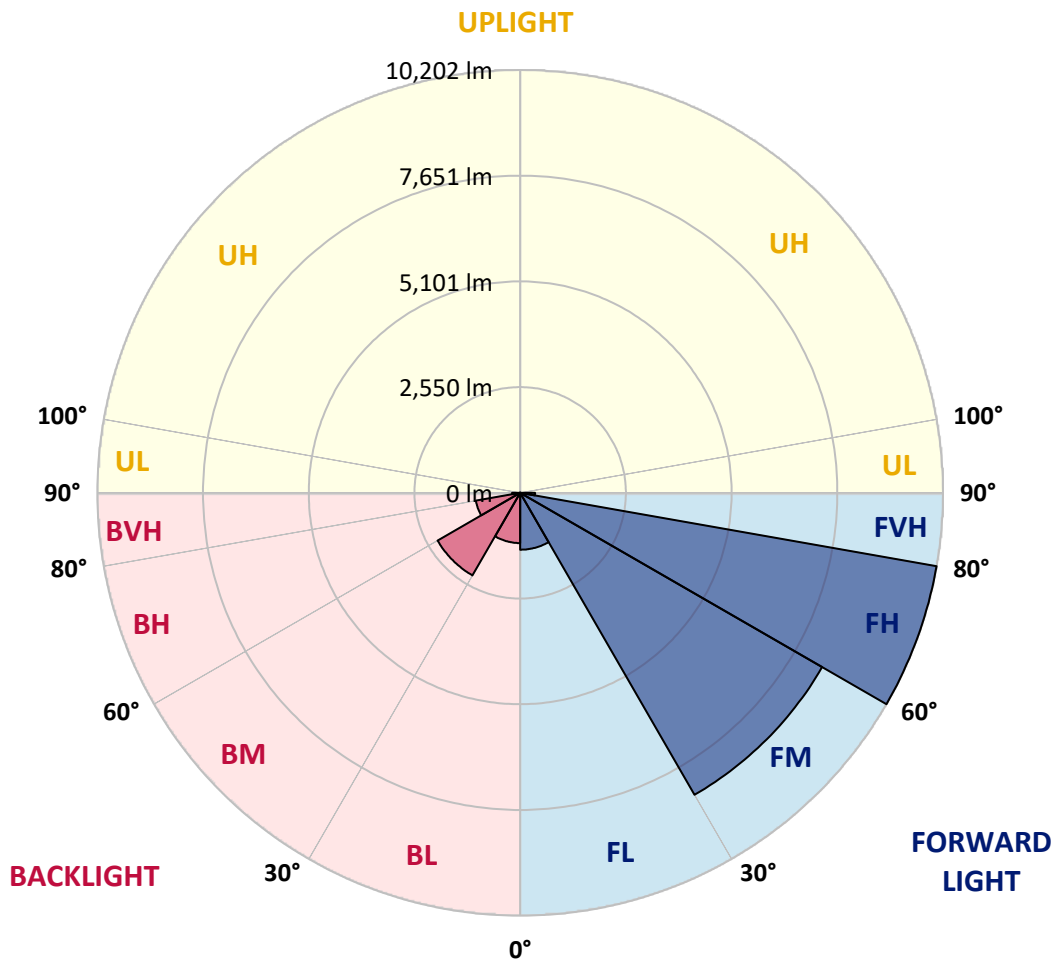
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1373.5	5.5			
FM	(30°-60°)	8411.9	33.5			
FH	(60°-80°)	10201.7	40.6			G4/12000
FVH	(80°-90°)	357.8	1.4			G3/500
BL	(0°-30°)	1213.3	4.8	B3/2500		
BM	(30°-60°)	2301.0	9.2	B2/2500		
BH	(60°-80°)	1084.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	195.7	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°	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4
2.5°	3644.7	3651.9	3643.4	3654.3	3672.5	3691.8	3705.0	3724.4	3746.0	3776.3	3783.5
5°	3473.2	3484.0	3484.0	3503.4	3538.5	3569.9	3598.8	3630.2	3676.0	3728.0	3748.4
7.5°	3284.9	3290.9	3301.8	3330.7	3381.5	3426.1	3467.2	3517.9	3580.6	3649.5	3685.7
10°	3057.9	3066.4	3083.3	3124.3	3193.1	3254.6	3313.8	3383.8	3463.5	3549.4	3595.1
12.5°	2897.4	2895.0	2902.2	2932.3	2992.8	3067.6	3153.3	3242.6	3340.4	3440.7	3496.2
15°	2843.0	2829.8	2802.1	2794.7	2827.3	2902.2	3001.1	3111.1	3228.1	3348.9	3417.7
17.5°	2876.8	2853.9	2777.9	2722.4	2717.6	2774.2	2879.2	3002.4	3137.6	3284.9	3370.6
20°	3089.4	3035.1	2847.8	2718.7	2674.1	2701.8	2793.5	2924.0	3083.3	3278.9	3388.8
22.5°	3597.6	3517.9	3120.7	2880.4	2729.6	2695.8	2764.5	2903.4	3089.4	3353.7	3493.8
25°	4337.6	4224.1	3589.1	3283.8	2972.2	2792.3	2808.0	2950.6	3175.0	3527.6	3696.5
27.5°	4922.0	4848.3	4201.3	3852.3	3414.1	3053.1	2949.2	3068.8	3350.0	3812.4	3985.2
30°	5269.5	5224.9	4855.5	4496.9	3977.9	3468.4	3219.7	3290.9	3624.1	4207.2	4349.8
32.5°	5672.8	5646.2	5465.2	5135.6	4586.2	4014.0	3648.2	3623.0	3991.1	4681.6	4746.9
35°	6090.5	6082.1	5975.9	5739.2	5239.5	4733.6	4217.0	4045.4	4390.7	5174.2	5133.2
37.5°	6479.2	6464.7	6403.2	6265.6	5922.7	5506.3	4796.4	4478.9	4821.7	5645.0	5462.8
40°	7195.2	7081.7	6870.3	6766.7	6613.2	6157.0	5256.3	4883.2	5268.4	6094.1	5747.6
42.5°	8067.9	7883.3	7489.7	7347.2	7325.6	6670.1	5570.2	5275.7	5718.7	6539.7	6027.7
45°	8754.9	8581.1	8241.8	8062.0	8141.6	7134.8	5885.2	5694.5	6182.2	7006.8	6316.3
47.5°	9487.7	9214.9	8765.8	8820.1	8993.9	7574.1	6206.4	6144.9	6690.5	7529.6	6674.9
50°	9514.3	9305.5	9108.6	9433.5	9703.9	7978.7	6608.4	6616.8	7312.3	8187.5	7151.6
52.5°	8962.6	8917.8	9230.5	9741.2	10131.2	8298.5	7066.0	7104.6	8107.8	8943.3	7675.7
55°	8769.4	8718.7	9079.7	9633.8	10189.1	8563.0	7562.1	7632.2	9069.9	9740.1	8186.3
57.5°	9240.2	9127.9	9152.1	9583.1	10047.8	8852.6	8103.0	8244.3	10115.5	10436.6	8514.7
60°	10556.2	10315.9	9859.5	9848.7	10123.9	9287.2	8728.3	8900.9	11202.0	10769.8	8386.7
62.5°	12402.0	12161.8	11307.1	10750.5	10709.5	10004.5	9496.2	9542.1	11829.8	10318.3	7605.6
65°	14400.0	14185.0	13230.1	12444.2	12065.1	11192.3	10388.3	9828.1	11624.4	9076.0	6239.0
67.5°	16825.3	16594.7	15773.8	15048.2	14683.7	13109.4	11014.8	9554.2	10322.0	7030.9	4484.9
70°	18521.4	18286.1	17962.5	18550.4	19442.6	15875.1	11095.8	8439.8	7709.4	4673.3	2699.3
72.5°	16308.5	16198.7	16789.1	19265.1	22981.0	17553.3	10029.8	6144.9	4477.6	2480.8	1562.2
73°	14942.0	14917.9	15924.8	18764.2	23006.4	17294.9	9562.5	5711.5	3840.3	2194.7	1428.1
75°	6747.3	6941.7	9148.5	14332.4	19988.2	14251.5	6730.5	3276.5	2169.3	1516.2	1078.1
77.5°	1621.4	1689.0	2862.4	6806.4	12623.0	8492.9	3049.4	1620.2	1387.2	1070.8	787.2
80°	690.5	713.4	1102.2	2514.6	5943.2	3420.0	1405.2	1085.3	959.7	747.3	551.6
82.5°	383.8	408.0	625.3	1140.8	2398.7	1166.2	857.2	755.7	631.4	450.3	358.6
85°	217.3	230.5	365.8	637.3	1016.5	468.3	513.1	502.2	356.2	231.9	176.2
87.5°	102.6	111.1	176.2	295.8	398.4	183.6	260.8	287.3	223.4	141.3	91.7
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°	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4
2.5°	3791.9	3813.7	3839.0	3852.3	3864.4	3878.8	3893.3	3893.3	3895.8	3896.9
5°	3765.3	3810.0	3849.9	3866.8	3870.3	3870.3	3866.8	3847.5	3830.6	3837.7
7.5°	3709.8	3775.0	3808.9	3802.9	3756.9	3703.8	3659.2	3604.8	3577.1	3572.2
10°	3630.2	3705.0	3711.1	3650.7	3537.3	3423.7	3329.6	3237.9	3194.4	3183.6
12.5°	3542.0	3610.8	3572.2	3447.9	3265.6	3100.2	2980.7	2887.7	2846.6	2835.8
15°	3470.8	3517.9	3420.0	3224.6	2995.2	2820.0	2721.1	2652.3	2623.3	2614.8
17.5°	3433.4	3443.1	3264.4	3000.0	2756.1	2610.0	2548.5	2516.0	2505.1	2498.9
20°	3451.5	3383.8	3116.0	2791.2	2560.6	2457.9	2443.5	2434.9	2432.6	2428.9
22.5°	3542.0	3365.8	2979.5	2593.1	2389.1	2344.4	2356.6	2355.4	2352.9	2350.4
25°	3703.8	3381.5	2846.6	2404.9	2245.5	2235.8	2257.5	2257.5	2247.9	2247.9
27.5°	3917.5	3414.1	2698.1	2226.2	2115.1	2116.2	2133.1	2128.4	2117.6	2110.3
30°	4178.2	3434.6	2524.3	2065.7	1993.2	1988.3	1993.2	1972.7	1940.0	1937.6
32.5°	4445.1	3409.2	2322.7	1923.1	1864.0	1853.2	1849.5	1820.5	1783.0	1772.3
35°	4686.5	3316.4	2117.6	1809.6	1740.8	1716.8	1733.5	1723.9	1690.2	1681.6
37.5°	4862.7	3143.7	1932.9	1709.5	1652.7	1646.7	1657.6	1661.1	1621.4	1612.8
40°	4981.1	2909.4	1774.6	1624.9	1635.9	1612.8	1576.6	1551.4	1539.2	1535.7
42.5°	5076.4	2665.6	1641.8	1585.1	1639.4	1573.0	1494.6	1453.5	1475.2	1484.9
45°	5186.4	2427.8	1530.8	1535.7	1621.4	1527.2	1437.8	1398.0	1406.4	1408.8
47.5°	5337.2	2138.1	1411.2	1456.0	1561.0	1495.8	1402.9	1346.1	1306.2	1288.1
50°	5546.0	1795.2	1286.9	1366.6	1501.7	1472.9	1348.4	1288.1	1214.5	1197.6
52.5°	5690.9	1475.2	1184.2	1291.8	1448.6	1427.0	1305.1	1226.5	1149.3	1134.7
55°	5612.5	1225.4	1094.9	1208.4	1378.7	1370.3	1268.8	1163.8	1103.4	1091.4
57.5°	5220.1	1067.1	1026.1	1130.0	1292.9	1321.9	1220.4	1110.7	1067.1	1058.7
60°	4471.7	968.3	982.7	1076.9	1223.0	1273.6	1172.2	1081.6	1052.8	1046.6
62.5°	3469.7	901.8	950.0	1038.3	1168.7	1239.8	1145.7	1078.1	1067.1	1060.0
65°	2485.7	848.7	915.2	999.6	1119.1	1208.4	1135.9	1073.3	1075.6	1069.6
67.5°	1689.0	801.6	872.9	956.2	1070.8	1180.7	1122.7	1056.3	1086.5	1079.3
70°	1181.9	755.7	823.3	900.6	1010.5	1142.0	1098.5	1031.0	1028.6	999.6
72.5°	922.3	695.4	755.7	823.3	933.2	1087.7	1050.3	974.2	934.3	904.2
73°	<b>880.1</b>	<b>680.8</b>	<b>738.9</b>	<b>806.5</b>	<b>916.4</b>	<b>1074.5</b>	<b>1037.1</b>	<b>958.5</b>	<b>913.8</b>	<b>886.1</b>
75°	727.9	618.2	671.3	731.6	843.9	1011.8	971.8	887.3	830.7	813.7
77.5°	572.2	528.7	579.4	633.8	743.6	920.0	875.3	794.5	763.0	748.5
80°	423.7	438.3	482.8	531.2	644.7	822.0	782.3	701.3	841.4	806.5
82.5°	298.1	332.1	373.1	416.5	540.8	726.8	678.5	595.1	615.7	511.9
85°	176.2	217.3	255.9	293.3	390.0	602.5	560.2	474.5	388.7	370.6
87.5°	102.6	120.7	131.6	170.1	268.1	454.0	394.7	351.2	201.6	136.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)