

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: P269273

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269273  
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-04-LED-E1-T4FT-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA 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: 20987 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

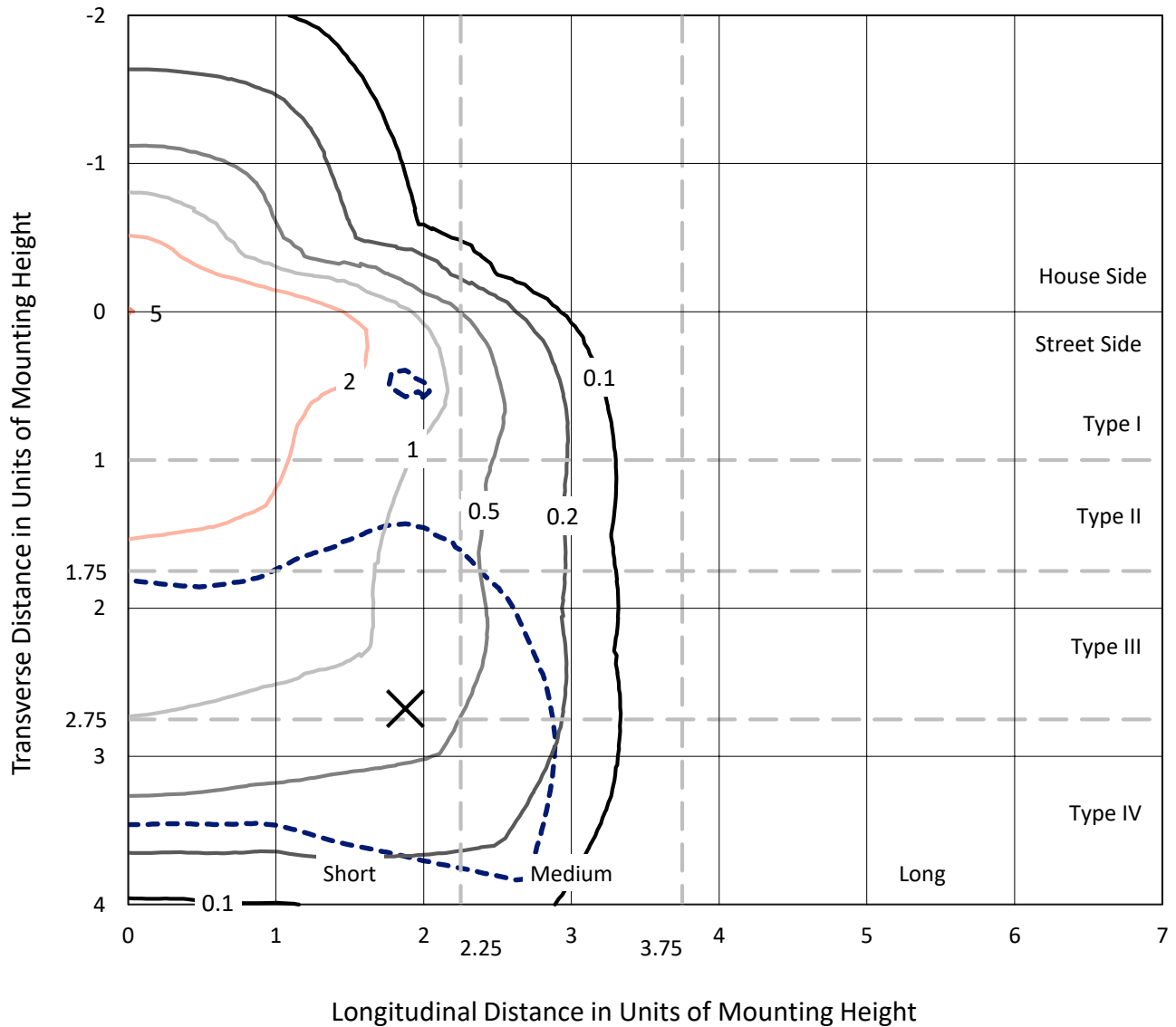
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

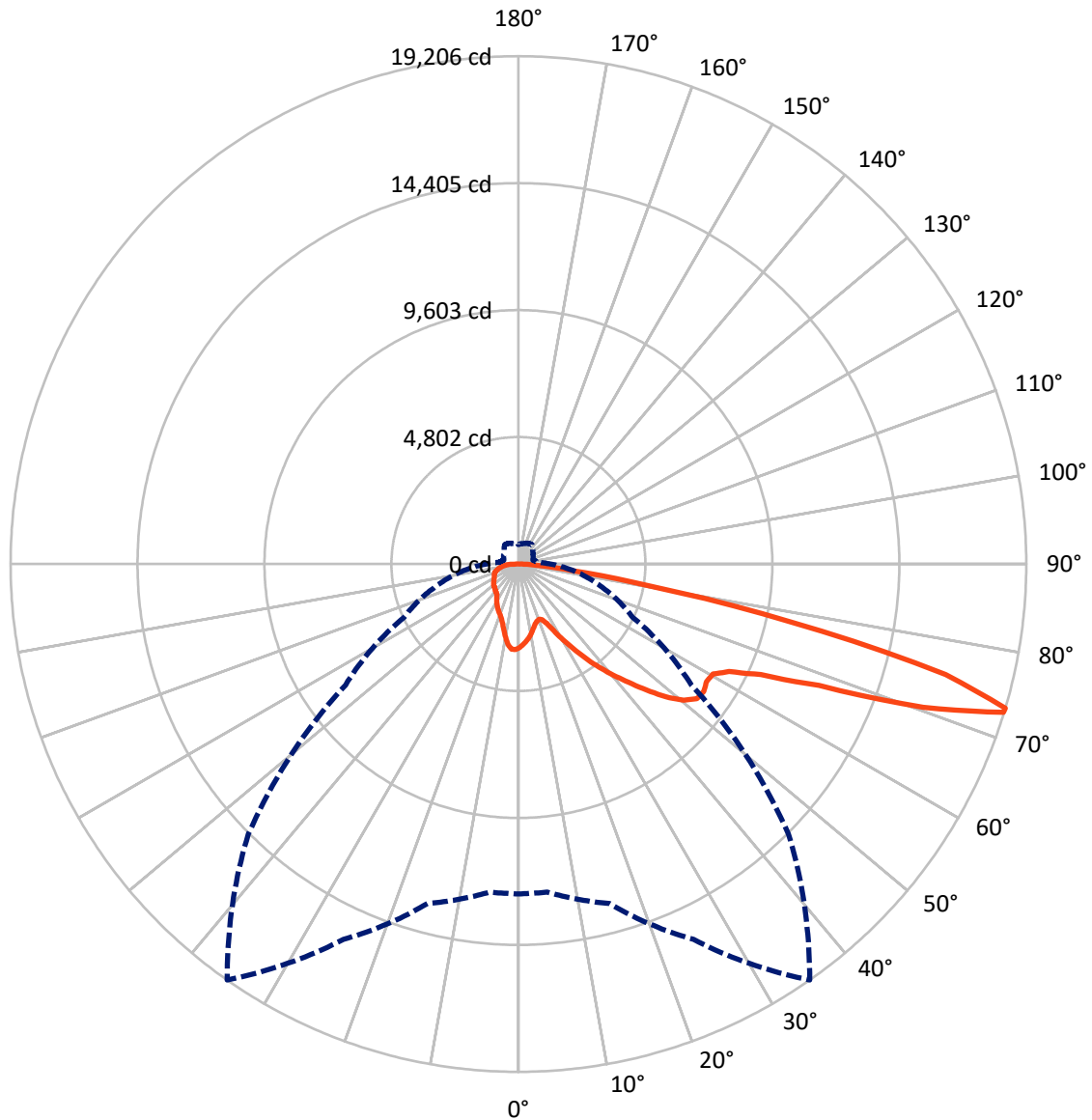
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4002.8	0.0	4002.8
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	16984.2	0.0	16984.2
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	20987.0	0.0	20987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.8	1.4
10°-20°	715.7	3.4
20°-30°	1157.0	5.5
30°-40°	1940.2	9.2
40°-50°	2990.7	14.3
50°-60°	4012.4	19.1
60°-70°	5345.3	25.5
70°-80°	4076.8	19.4
80°-90°	462.1	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°	20987.0	100.0
0°-180°	20987.0	100.0

**Coefficient of Utilization**



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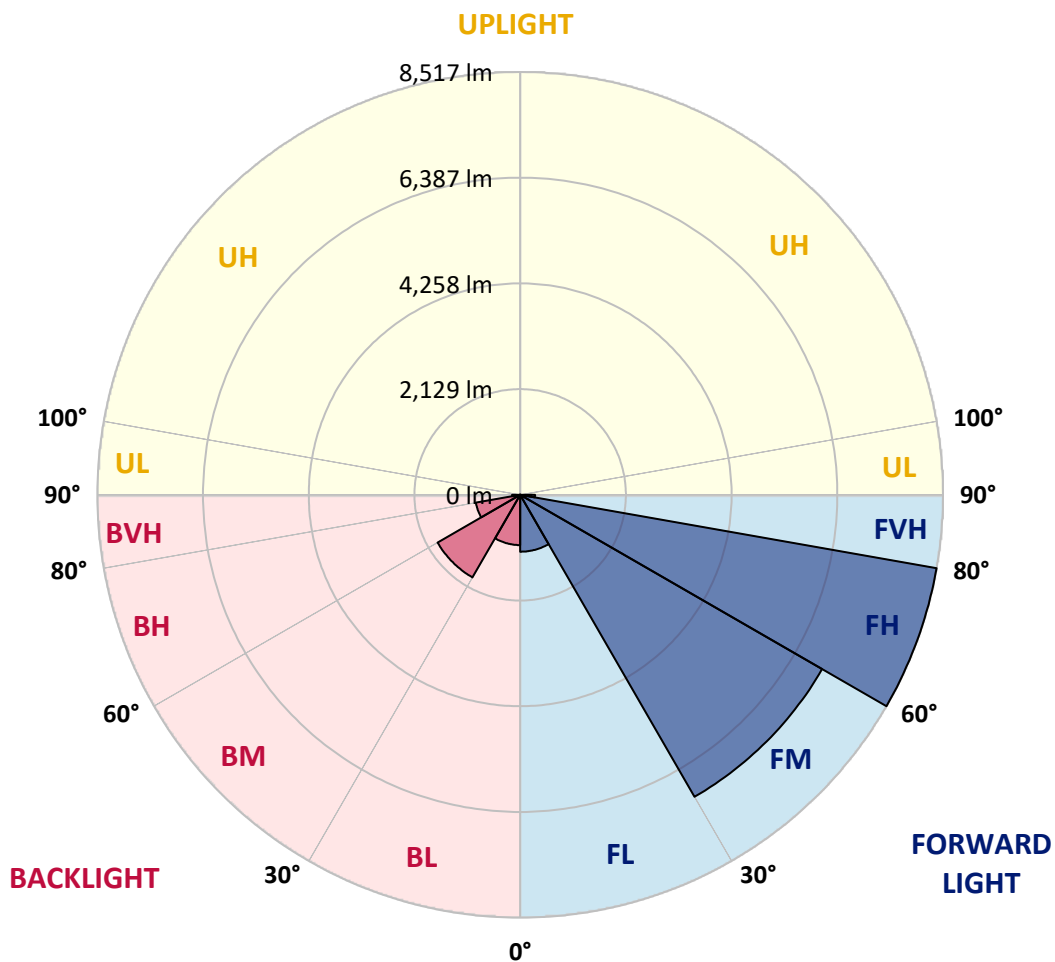
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1146.6	5.5			
FM	(30°-60°)	7022.4	33.5			
FH	(60°-80°)	8516.5	40.6			G4/12000
FVH	(80°-90°)	298.7	1.4			G3/500
BL	(0°-30°)	1012.9	4.8	B3/2500		
BM	(30°-60°)	1920.9	9.2	B2/2500		
BH	(60°-80°)	905.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	163.4	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°	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7
2.5°	3042.6	3048.7	3041.7	3050.6	3065.7	3081.9	3093.0	3109.2	3127.3	3152.5	3158.5
5°	2899.5	2908.6	2908.6	2924.7	2953.9	2980.1	3004.3	3030.5	3068.8	3112.2	3129.2
7.5°	2742.3	2747.3	2756.4	2780.7	2823.0	2860.3	2894.5	2936.7	2989.2	3046.6	3076.9
10°	2552.9	2559.9	2574.1	2608.3	2665.7	2717.2	2766.5	2824.9	2891.5	2963.0	3001.2
12.5°	2418.7	2416.8	2422.8	2448.1	2498.4	2560.9	2632.5	2707.0	2788.7	2872.3	2918.7
15°	2373.4	2362.4	2339.1	2333.1	2360.3	2422.8	2505.5	2597.2	2694.9	2795.7	2853.1
17.5°	2401.7	2382.6	2319.1	2272.6	2268.6	2316.0	2403.7	2506.5	2619.4	2742.3	2813.9
20°	2579.0	2533.7	2377.5	2269.6	2232.4	2255.6	2332.1	2441.0	2574.1	2737.2	2828.9
22.5°	3003.4	2936.7	2605.3	2404.7	2278.7	2250.4	2307.9	2423.8	2579.0	2799.7	2916.6
25°	3621.1	3526.3	2996.2	2741.3	2481.3	2331.1	2344.1	2463.2	2650.5	2944.9	3085.9
27.5°	4108.8	4047.5	3507.3	3215.9	2850.1	2548.9	2462.2	2561.8	2796.8	3182.8	3326.9
30°	4399.2	4361.9	4053.5	3754.1	3320.8	2895.4	2687.9	2747.3	3025.5	3512.3	3631.2
32.5°	4735.8	4713.5	4562.4	4287.3	3828.8	3350.9	3045.7	3024.5	3331.9	3908.3	3962.8
35°	5084.4	5077.4	4988.7	4791.2	4373.9	3951.6	3520.4	3377.2	3665.4	4319.5	4285.3
37.5°	5409.1	5396.8	5345.5	5230.7	4944.5	4596.6	4004.0	3739.0	4025.2	4712.6	4560.4
40°	6006.6	5911.8	5735.5	5648.8	5520.9	5139.9	4388.1	4076.7	4398.1	5087.6	4798.2
42.5°	6735.3	6581.2	6252.6	6133.5	6115.5	5568.2	4650.0	4404.2	4774.0	5459.4	5032.0
45°	7308.7	7163.7	6880.4	6730.2	6796.8	5956.2	4913.1	4753.9	5161.0	5849.5	5273.0
47.5°	7920.4	7692.7	7317.9	7363.1	7508.4	6323.1	5181.2	5129.9	5585.3	6285.8	5572.2
50°	7942.6	7768.4	7604.1	7875.1	8100.8	6660.8	5516.9	5523.9	6104.4	6835.1	5970.3
52.5°	7482.2	7444.9	7705.8	8132.1	8457.6	6927.8	5898.8	5931.1	6768.5	7466.0	6407.8
55°	7320.8	7278.4	7579.9	8042.4	8506.1	7148.5	6313.0	6371.5	7571.9	8131.1	6834.0
57.5°	7713.8	7620.1	7640.4	8000.1	8388.2	7390.4	6764.5	6882.5	8444.5	8712.7	7108.2
60°	8812.5	8612.0	8230.9	8221.8	8451.7	7753.2	7286.6	7430.7	9351.6	8990.7	7001.4
62.5°	10353.3	10152.9	9439.3	8974.6	8940.4	8351.8	7927.5	7965.8	9875.6	8613.8	6349.3
65°	12021.4	11841.9	11044.8	10388.7	10072.2	9343.5	8672.3	8204.7	9704.3	7576.8	5208.5
67.5°	14046.1	13853.5	13168.3	12562.5	12258.2	10944.1	9195.4	7976.0	8616.9	5869.5	3744.0
70°	15462.0	15265.4	14995.4	15486.2	16231.0	13252.9	9263.0	7045.6	6435.9	3901.2	2253.5
72.5°	13614.7	13522.9	14015.9	16082.8	19184.9	14653.8	8373.0	5129.9	3738.0	2071.1	1304.1
73°	12473.9	12453.7	13294.1	15664.6	19206.1	14438.1	7983.0	4768.1	3206.0	1832.3	1192.3
75°	5632.7	5795.0	7637.3	11964.9	16686.6	11897.3	5618.5	2735.2	1811.1	1265.8	900.0
77.5°	1353.4	1409.9	2389.5	5682.0	10537.7	7090.1	2545.7	1352.5	1157.9	894.0	657.1
80°	576.5	595.7	920.1	2099.2	4961.5	2855.2	1173.0	906.0	801.2	623.9	460.7
82.5°	320.4	340.6	522.0	952.5	2002.5	973.6	715.6	630.9	527.0	375.9	299.3
85°	181.4	192.4	305.3	532.2	848.5	391.0	428.3	419.2	297.2	193.6	147.1
87.5°	85.7	92.7	147.1	246.9	332.6	153.3	217.7	239.8	186.5	117.9	76.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7	3167.7
2.5°	3165.5	3183.8	3205.0	3215.9	3226.1	3238.1	3250.2	3250.2	3252.3	3253.2
5°	3143.3	3180.7	3214.0	3228.1	3231.1	3231.1	3228.1	3211.9	3197.8	3203.9
7.5°	3097.0	3151.4	3179.7	3174.6	3136.3	3092.0	3054.7	3009.3	2986.1	2982.2
10°	3030.5	3093.0	3098.1	3047.7	2952.9	2858.1	2779.5	2703.0	2666.7	2657.6
12.5°	2957.0	3014.4	2982.2	2878.3	2726.1	2588.0	2488.3	2410.7	2376.5	2367.4
15°	2897.6	2936.7	2855.2	2692.0	2500.4	2354.3	2271.6	2214.2	2190.0	2182.9
17.5°	2866.2	2874.2	2725.2	2504.5	2300.9	2178.8	2127.5	2100.2	2091.3	2086.3
20°	2881.4	2824.9	2601.2	2330.2	2137.5	2051.9	2039.8	2032.8	2030.8	2027.7
22.5°	2957.0	2809.8	2487.2	2164.8	1994.4	1957.1	1967.3	1966.3	1964.2	1962.3
25°	3092.0	2823.0	2376.5	2007.6	1874.6	1866.5	1884.6	1884.6	1876.6	1876.6
27.5°	3270.4	2850.1	2252.5	1858.5	1765.7	1766.7	1780.8	1776.8	1767.8	1761.7
30°	3488.1	2867.3	2107.3	1724.3	1663.9	1659.9	1663.9	1646.9	1619.6	1617.6
32.5°	3710.8	2846.1	1939.0	1605.5	1556.0	1547.1	1543.9	1519.8	1488.5	1479.5
35°	3912.4	2768.4	1767.8	1510.7	1453.3	1433.2	1447.2	1439.2	1411.0	1404.0
37.5°	4059.5	2624.4	1613.5	1427.0	1379.6	1374.6	1383.7	1386.8	1353.4	1346.5
40°	4158.3	2428.8	1481.6	1356.5	1365.7	1346.5	1316.2	1295.0	1284.9	1281.9
42.5°	4237.9	2225.3	1370.6	1323.3	1368.6	1313.2	1247.7	1213.4	1231.5	1239.7
45°	4329.7	2026.8	1277.8	1281.9	1353.4	1275.0	1200.3	1167.1	1174.2	1176.2
47.5°	4455.7	1784.8	1178.1	1215.4	1303.1	1248.7	1171.1	1123.7	1090.5	1075.4
50°	4630.0	1498.6	1074.4	1140.8	1253.8	1229.5	1125.8	1075.4	1013.8	999.8
52.5°	4750.9	1231.5	988.7	1078.3	1209.4	1191.2	1089.5	1024.0	959.5	947.4
55°	4685.4	1022.9	914.0	1008.8	1151.0	1143.9	1059.2	971.5	921.1	911.2
57.5°	4357.9	890.8	856.7	943.3	1079.4	1103.6	1018.9	927.2	890.8	883.8
60°	3732.9	808.2	820.3	898.9	1021.0	1063.2	978.7	902.9	878.8	873.8
62.5°	2896.4	752.8	793.2	866.8	975.6	1035.0	956.4	900.0	890.8	884.9
65°	2075.2	708.6	763.9	834.4	934.2	1008.8	948.4	896.0	897.9	892.9
67.5°	1409.9	669.1	728.6	798.2	894.0	985.6	937.3	881.9	907.1	901.0
70°	986.7	630.9	687.4	751.8	843.6	953.5	917.1	860.7	858.7	834.4
72.5°	769.9	580.6	630.9	687.4	779.0	908.0	876.8	813.3	780.1	754.8
73°	734.8	568.4	616.7	673.2	764.9	897.0	865.7	800.2	762.9	739.8
75°	607.8	515.9	560.4	610.8	704.5	844.5	811.3	740.7	693.4	679.3
77.5°	477.7	441.4	483.7	529.1	620.8	768.1	730.7	663.2	637.0	624.9
80°	353.8	365.8	403.1	443.5	538.2	686.3	653.1	585.5	702.5	673.2
82.5°	248.9	277.1	311.4	347.7	451.5	606.7	566.4	496.9	514.0	427.4
85°	147.1	181.4	213.6	244.9	325.5	503.0	467.7	396.1	324.5	309.3
87.5°	85.7	100.8	109.9	142.1	223.8	378.9	329.6	293.2	168.3	113.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)