

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: P269196

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269196  
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-03-LED-E1-T4FT-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA 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: 17424.2 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

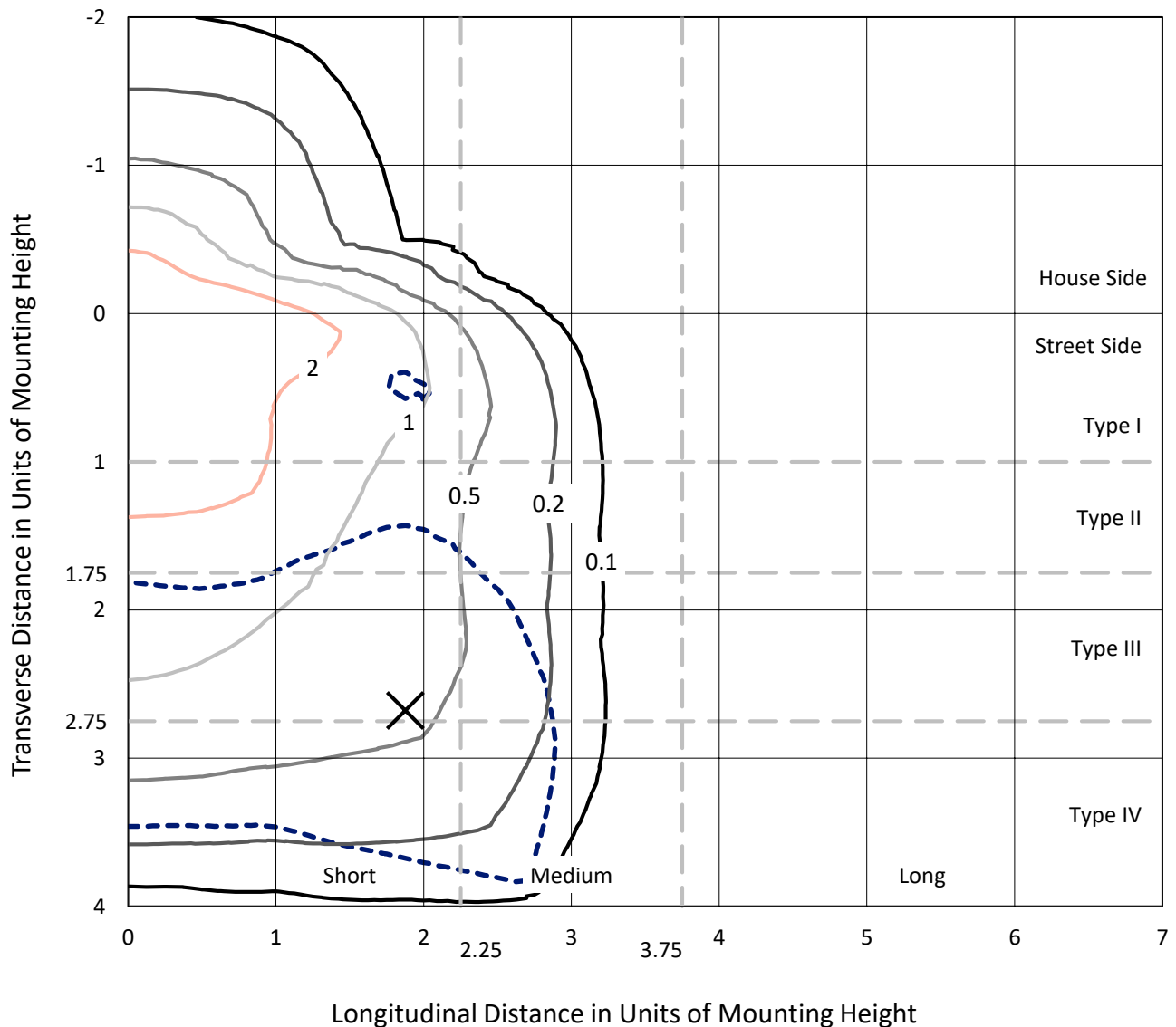
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

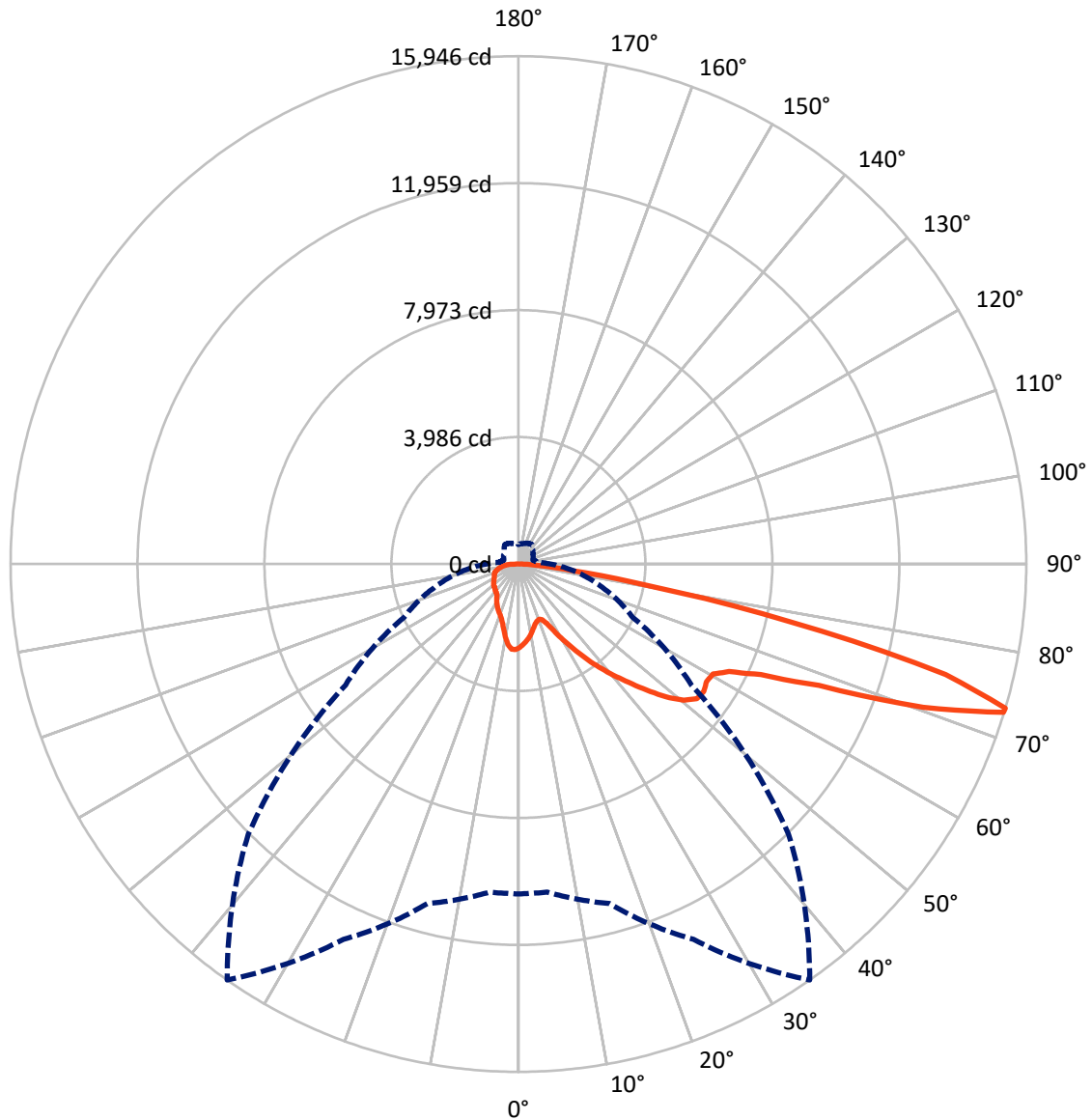


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - Non-Cutoff

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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	3323.3	0.0	3323.3
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	14100.9	0.0	14100.9
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	17424.2	0.0	17424.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.1	1.4
10°-20°	594.2	3.4
20°-30°	960.6	5.5
30°-40°	1610.8	9.2
40°-50°	2483.0	14.3
50°-60°	3331.2	19.1
60°-70°	4437.9	25.5
70°-80°	3384.7	19.4
80°-90°	383.6	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°	17424.2	100.0
0°-180°	17424.2	100.0



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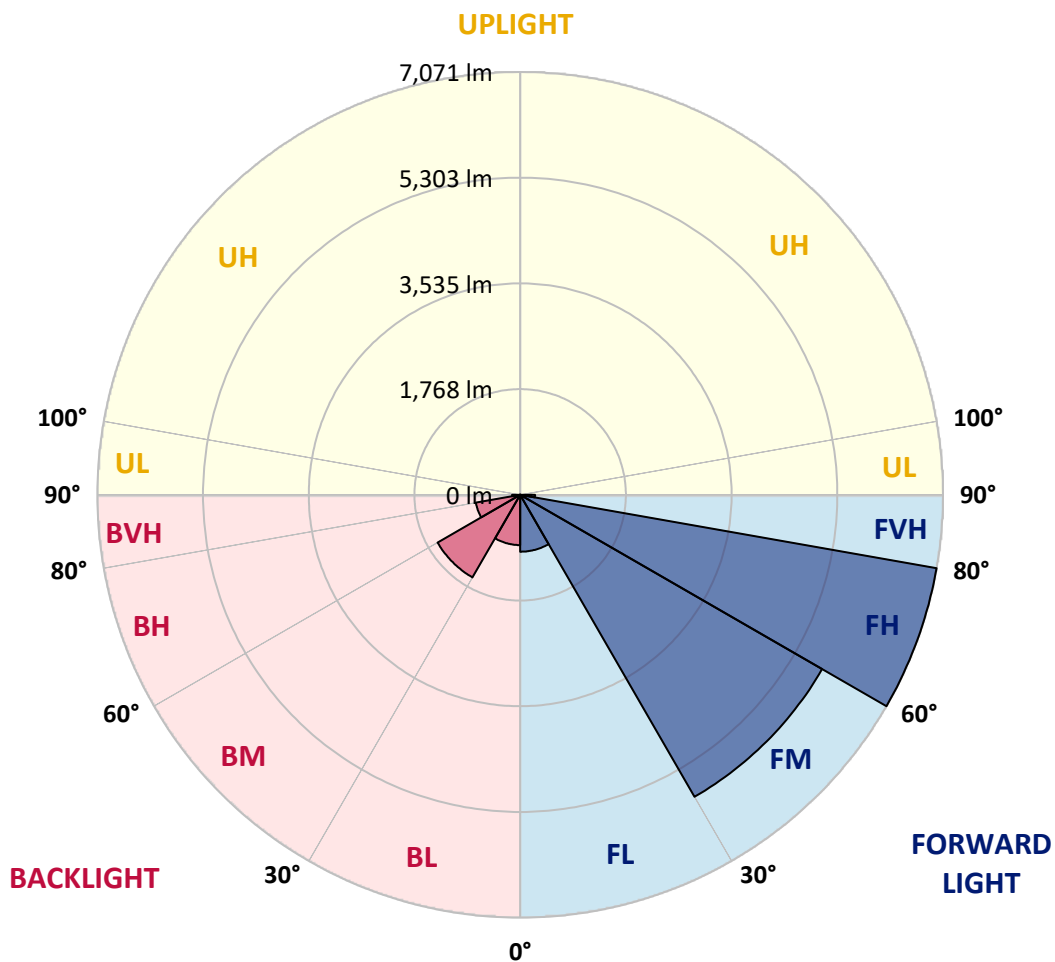
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.0	5.5			
FM (30°-60°)	5830.3	33.5			
FH (60°-80°)	7070.7	40.6			G3/7500
FVH (80°-90°)	248.0	1.4			G3/500
BL (0°-30°)	840.9	4.8	B2/1000		
BM (30°-60°)	1594.8	9.2	B2/2500		
BH (60°-80°)	751.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	135.7	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9
2.5°	2526.2	2531.2	2525.2	2532.9	2545.3	2558.7	2568.0	2581.3	2596.5	2617.3	2622.3
5°	2407.3	2414.9	2414.9	2428.2	2452.5	2474.2	2494.4	2516.1	2547.9	2583.9	2598.1
7.5°	2276.8	2280.9	2288.4	2308.6	2343.7	2374.7	2403.1	2438.3	2481.7	2529.4	2554.6
10°	2119.5	2125.3	2137.0	2165.5	2213.2	2255.9	2296.8	2345.4	2400.6	2460.0	2491.8
12.5°	2008.3	2006.5	2011.6	2032.4	2074.2	2126.2	2185.5	2247.5	2315.2	2384.7	2423.2
15°	1970.5	1961.3	1942.0	1937.0	1959.7	2011.6	2080.1	2156.3	2237.4	2321.1	2368.8
17.5°	1994.0	1978.1	1925.3	1886.8	1883.4	1922.8	1995.7	2081.0	2174.6	2276.8	2336.1
20°	2141.2	2103.6	1973.8	1884.4	1853.4	1872.5	1936.1	2026.5	2137.0	2272.6	2348.7
22.5°	2493.4	2438.3	2162.9	1996.5	1891.9	1868.5	1916.2	2012.4	2141.2	2324.5	2421.6
25°	3006.4	2927.8	2487.6	2275.9	2060.1	1935.4	1946.3	2045.0	2200.6	2444.9	2562.1
27.5°	3411.4	3360.3	2911.9	2670.0	2366.2	2116.0	2044.2	2126.9	2321.9	2642.5	2762.1
30°	3652.4	3621.3	3365.3	3116.8	2757.1	2404.0	2231.6	2280.9	2511.9	2916.0	3014.7
32.5°	3931.8	3913.3	3788.0	3559.4	3178.7	2782.1	2528.5	2511.0	2766.2	3244.9	3290.0
35°	4221.3	4215.4	4141.8	3977.9	3631.4	3280.8	2922.7	2803.9	3043.2	3586.3	3557.7
37.5°	4490.7	4480.7	4438.0	4342.6	4105.1	3816.4	3324.4	3104.4	3342.0	3912.6	3786.3
40°	4986.9	4908.2	4761.8	4690.0	4583.6	4267.4	3643.2	3384.6	3651.5	4223.8	3983.8
42.5°	5591.9	5463.9	5191.1	5092.4	5077.3	4622.9	3860.6	3656.6	3963.6	4532.6	4177.7
45°	6068.1	5947.5	5712.4	5587.6	5643.0	4945.1	4079.1	3947.0	4284.9	4856.3	4377.8
47.5°	6576.0	6386.8	6075.5	6113.1	6233.7	5249.6	4301.7	4259.0	4637.2	5218.8	4626.4
50°	6594.3	6449.6	6313.2	6538.3	6725.7	5530.0	4580.3	4586.1	5068.1	5674.8	4956.8
52.5°	6211.9	6181.0	6397.6	6751.7	7022.0	5751.7	4897.4	4924.1	5619.4	6198.6	5319.9
55°	6078.0	6042.9	6293.0	6677.1	7062.0	5934.9	5241.3	5289.8	6286.3	6750.9	5674.0
57.5°	6404.3	6326.6	6343.3	6642.0	6964.1	6135.8	5616.2	5714.1	7011.0	7233.6	5901.4
60°	7316.4	7149.9	6833.6	6826.1	7016.9	6437.1	6049.5	6169.3	7764.1	7464.6	5812.8
62.5°	8595.8	8429.2	7836.9	7451.1	7422.6	6934.0	6581.7	6613.5	8199.2	7151.5	5271.4
65°	9980.6	9831.6	9169.8	8625.0	8362.3	7757.4	7200.2	6811.8	8056.9	6290.7	4324.3
67.5°	11661.5	11501.8	10932.8	10430.0	10177.2	9086.0	7634.3	6621.9	7154.1	4873.1	3108.4
70°	12837.1	12674.0	12449.8	12857.4	13475.7	11003.1	7690.4	5849.7	5343.4	3239.0	1870.9
72.5°	11303.5	11227.3	11636.5	13352.6	15928.0	12166.1	6951.7	4259.0	3103.5	1719.4	1082.7
73°	10356.3	10339.5	11037.4	13005.4	15945.6	11987.1	6627.8	3958.7	2661.7	1521.2	989.8
75°	4676.4	4811.2	6340.7	9933.7	13853.8	9877.7	4664.8	2270.8	1503.7	1050.9	747.2
77.5°	1123.7	1170.6	1983.8	4717.4	8749.0	5886.5	2113.6	1122.9	961.4	742.2	545.5
80°	478.5	494.4	764.0	1742.9	4119.3	2370.4	973.9	752.2	665.3	518.0	382.4
82.5°	266.1	282.8	433.4	790.7	1662.7	808.2	594.0	523.8	437.7	312.2	248.6
85°	150.6	159.8	253.5	441.7	704.5	324.6	355.5	348.1	246.9	160.6	122.2
87.5°	71.1	77.0	122.2	205.1	276.0	127.2	180.6	199.2	154.8	97.8	63.6
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°	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9	2629.9
2.5°	2628.3	2643.3	2660.8	2670.0	2678.3	2688.4	2698.5	2698.5	2700.1	2700.9
5°	2609.8	2640.7	2668.3	2680.1	2682.6	2682.6	2680.1	2666.7	2655.0	2660.1
7.5°	2571.3	2616.5	2639.8	2635.6	2603.9	2567.0	2536.2	2498.5	2479.2	2475.9
10°	2516.1	2568.0	2572.1	2530.3	2451.7	2373.1	2307.7	2244.1	2214.1	2206.4
12.5°	2455.0	2502.7	2475.9	2389.8	2263.4	2148.7	2065.9	2001.5	1972.9	1965.5
15°	2405.7	2438.3	2370.4	2235.0	2076.0	1954.6	1886.0	1838.3	1818.2	1812.4
17.5°	2379.7	2386.3	2262.6	2079.2	1910.2	1809.0	1766.3	1743.8	1736.2	1732.0
20°	2392.2	2345.4	2159.6	1934.5	1774.7	1703.5	1693.6	1687.6	1685.9	1683.6
22.5°	2455.0	2332.8	2065.1	1797.2	1655.8	1624.9	1633.3	1632.5	1630.9	1629.2
25°	2567.0	2343.7	1972.9	1666.7	1556.4	1549.7	1564.7	1564.7	1558.0	1558.0
27.5°	2715.1	2366.2	1870.1	1543.0	1465.9	1466.8	1478.5	1475.1	1467.7	1462.6
30°	2896.0	2380.5	1749.5	1431.7	1381.5	1378.1	1381.5	1367.2	1344.7	1343.0
32.5°	3080.8	2362.9	1609.9	1332.9	1291.9	1284.3	1281.9	1261.8	1235.9	1228.3
35°	3248.2	2298.6	1467.7	1254.3	1206.6	1189.8	1201.6	1194.8	1171.4	1165.6
37.5°	3370.4	2178.8	1339.6	1184.9	1145.5	1141.2	1148.8	1151.4	1123.7	1117.9
40°	3452.4	2016.5	1230.0	1126.3	1133.8	1117.9	1092.8	1075.2	1066.8	1064.3
42.5°	3518.5	1847.5	1138.0	1098.6	1136.3	1090.3	1035.8	1007.4	1022.5	1029.2
45°	3594.6	1682.6	1061.0	1064.3	1123.7	1058.5	996.6	968.9	974.8	976.5
47.5°	3699.2	1481.8	978.2	1009.1	1081.9	1036.7	972.2	933.0	905.3	892.7
50°	3843.9	1244.2	891.9	947.3	1040.9	1020.8	934.6	892.7	841.7	830.0
52.5°	3944.4	1022.5	820.8	895.3	1004.0	989.0	904.6	850.2	796.5	786.6
55°	3890.0	849.3	758.9	837.6	955.5	949.7	879.4	806.6	764.7	756.5
57.5°	3618.1	739.7	711.2	783.2	896.1	916.2	845.9	769.8	739.7	733.8
60°	3099.2	671.0	681.2	746.4	847.6	882.8	812.4	749.7	729.7	725.4
62.5°	2404.9	625.0	658.5	719.6	809.9	859.3	794.0	747.2	739.7	734.6
65°	1722.8	588.2	634.3	692.9	775.6	837.6	787.4	743.8	745.6	741.3
67.5°	1170.6	555.6	605.0	662.7	742.2	818.4	778.1	732.2	753.0	748.1
70°	819.2	523.8	570.7	624.2	700.4	791.5	761.5	714.6	712.9	692.9
72.5°	639.2	482.0	523.8	570.7	646.8	753.9	727.9	675.3	647.7	626.7
73°	609.9	471.9	512.0	558.9	635.1	744.7	718.7	664.3	633.5	614.3
75°	504.6	428.4	465.2	507.1	584.8	701.1	673.5	615.0	575.6	564.0
77.5°	396.6	366.5	401.6	439.4	515.4	637.5	606.6	550.7	528.8	518.9
80°	293.7	303.7	334.7	368.1	446.7	569.9	542.1	486.2	583.2	558.9
82.5°	206.7	230.1	258.5	288.6	374.9	503.7	470.3	412.5	426.8	354.8
85°	122.2	150.6	177.3	203.3	270.3	417.5	388.2	328.8	269.4	256.8
87.5°	71.1	83.7	91.2	117.9	185.8	314.5	273.7	243.5	139.7	94.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)