

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: P269354

Luminaire Tested: **GLEON-AF-05-LED-E1-T4FT-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269354  
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-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA 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: 17131.8 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 162  
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

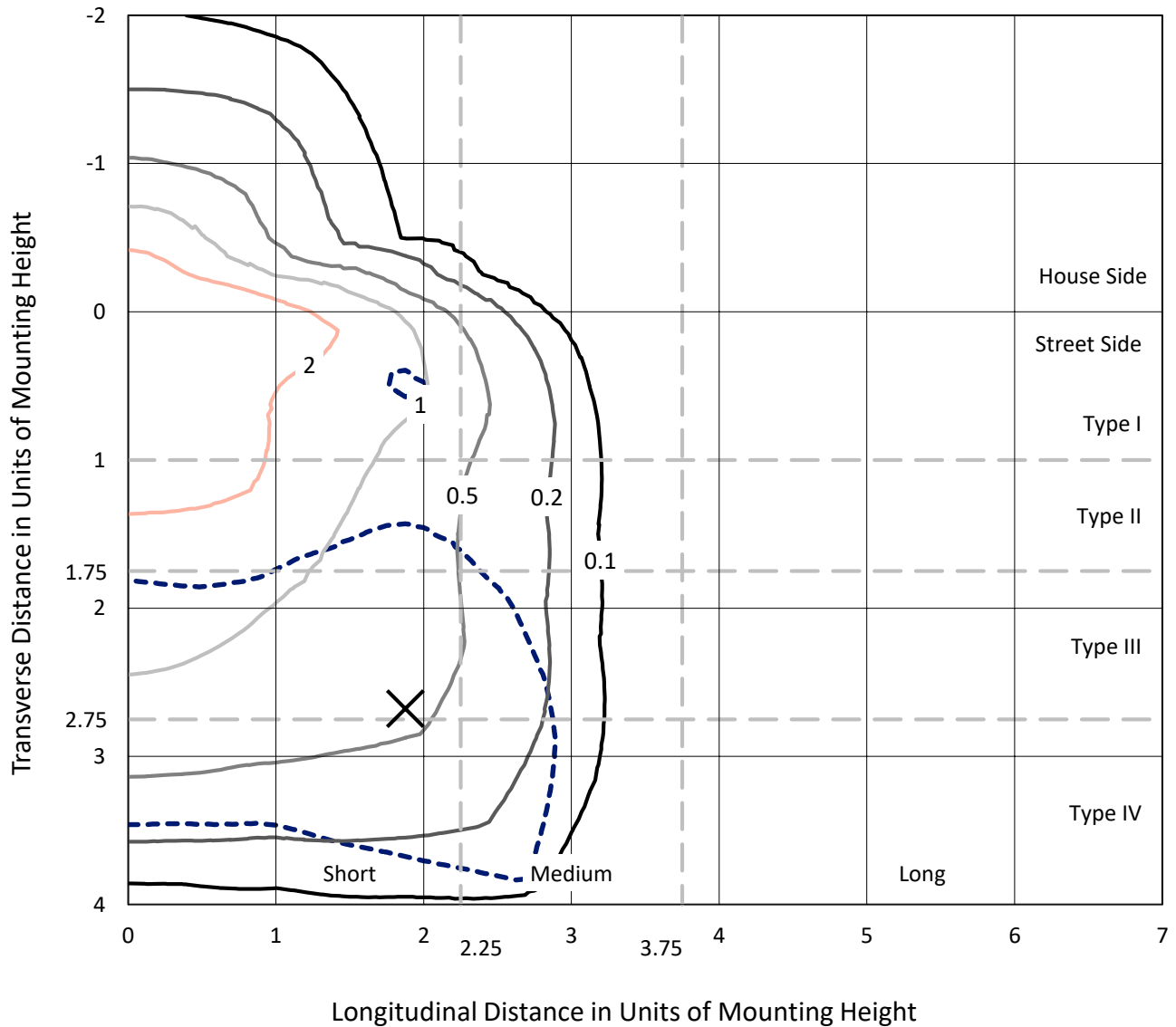


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

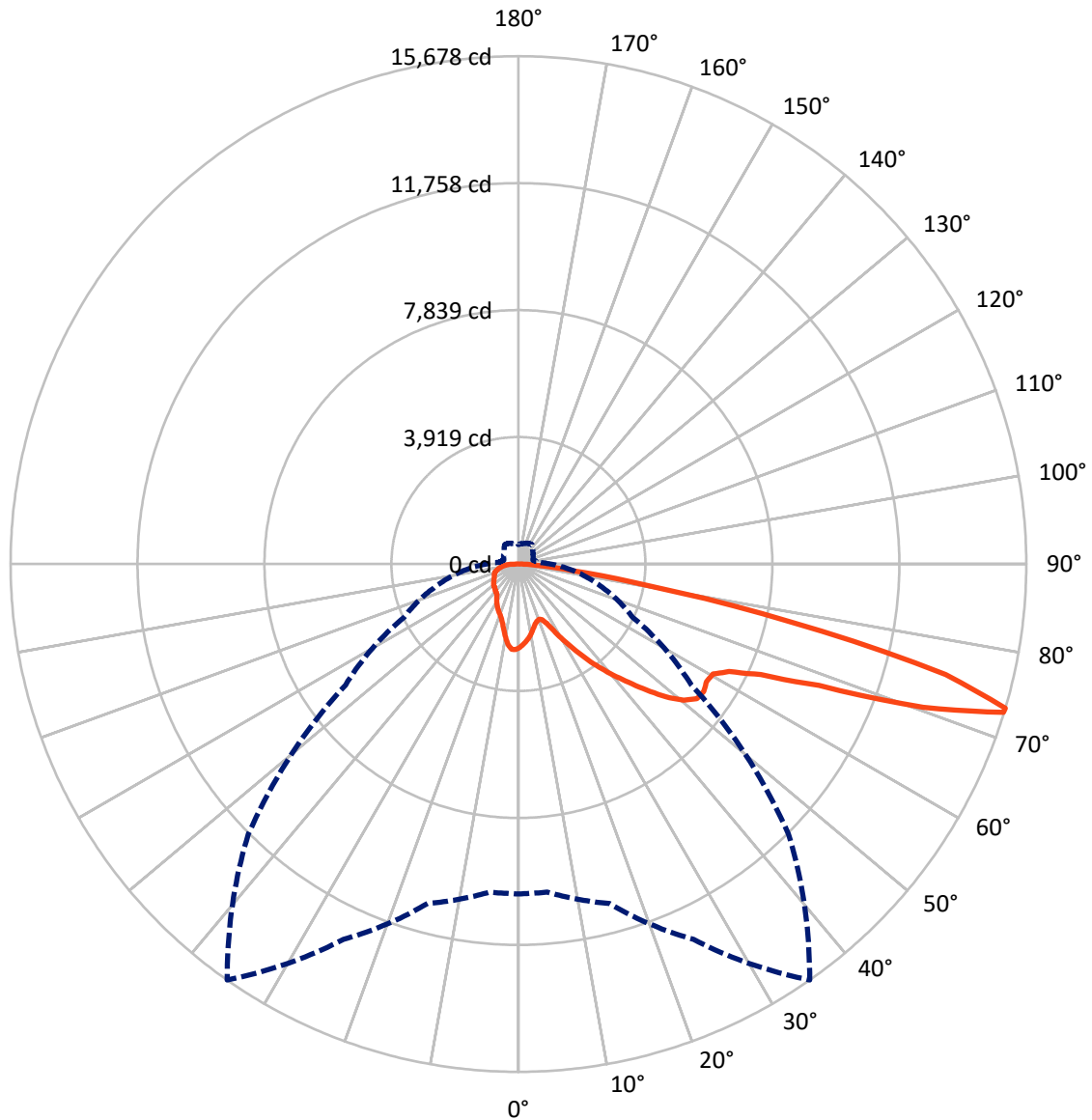


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - Non-Cutoff

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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	3267.5	0.0	3267.5
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	13864.3	0.0	13864.3
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	17131.8	0.0	17131.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.1	1.4
10°-20°	584.2	3.4
20°-30°	944.5	5.5
30°-40°	1583.8	9.2
40°-50°	2441.3	14.3
50°-60°	3275.3	19.1
60°-70°	4363.4	25.5
70°-80°	3327.9	19.4
80°-90°	377.2	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°	17131.8	100.0
0°-180°	17131.8	100.0

**Coefficient of Utilization**



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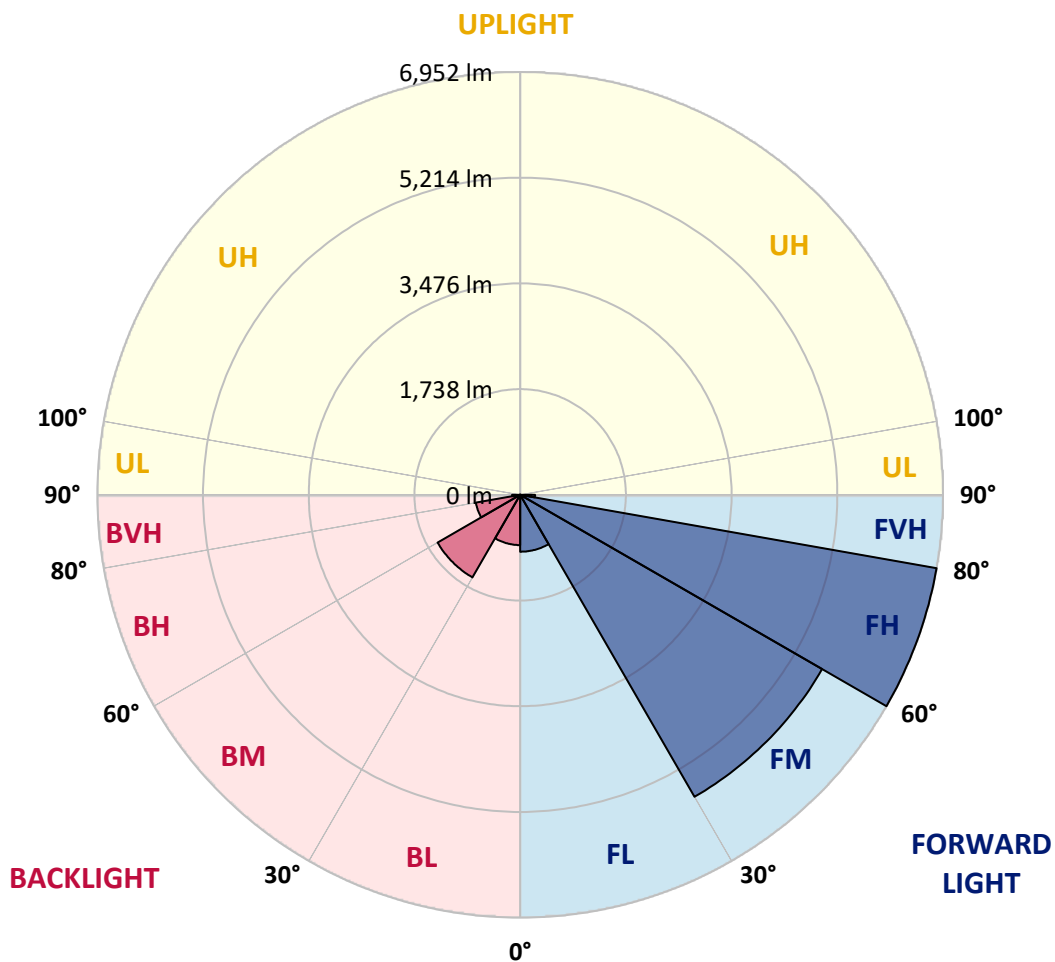
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	936.0	5.5			
FM	(30°-60°)	5732.4	33.5			
FH	(60°-80°)	6952.1	40.6			G3/7500
FVH	(80°-90°)	243.8	1.4			G3/500
BL	(0°-30°)	826.8	4.8	B2/1000		
BM	(30°-60°)	1568.0	9.2	B2/2500		
BH	(60°-80°)	739.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	133.4	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7
2.5°	2483.8	2488.7	2482.8	2490.3	2502.6	2515.9	2524.9	2538.0	2552.9	2573.4	2578.3
5°	2366.9	2374.3	2374.3	2387.4	2411.3	2432.7	2452.5	2473.8	2505.2	2540.4	2554.4
7.5°	2238.5	2242.7	2250.1	2269.7	2304.3	2334.8	2362.7	2397.3	2440.1	2487.0	2511.8
10°	2083.9	2089.6	2101.1	2129.2	2176.1	2217.9	2258.2	2305.9	2360.2	2418.6	2449.9
12.5°	1974.5	1972.8	1977.8	1998.3	2039.4	2090.4	2148.8	2209.7	2276.3	2344.7	2382.6
15°	1937.5	1928.4	1909.4	1904.5	1926.8	1977.8	2045.3	2120.1	2199.9	2282.1	2329.0
17.5°	1960.6	1944.8	1893.0	1855.2	1851.9	1890.6	1962.1	2046.0	2138.1	2238.5	2297.0
20°	2105.3	2068.3	1940.7	1852.8	1822.2	1841.2	1903.7	1992.6	2101.1	2234.4	2309.4
22.5°	2451.7	2397.3	2126.6	1962.9	1860.1	1837.0	1883.9	1978.5	2105.3	2285.5	2380.9
25°	2956.0	2878.6	2445.8	2237.7	2025.5	1902.9	1913.6	2010.6	2163.7	2404.0	2519.0
27.5°	3354.1	3304.0	2863.0	2625.1	2326.6	2080.6	2009.9	2091.3	2283.0	2598.1	2715.7
30°	3591.1	3560.6	3308.8	3064.5	2710.7	2363.6	2194.1	2242.7	2469.7	2867.1	2964.1
32.5°	3865.9	3847.7	3724.4	3499.7	3125.5	2735.5	2486.1	2468.9	2719.8	3190.4	3234.8
35°	4150.4	4144.7	4072.3	3911.1	3570.5	3225.8	2873.7	2756.8	2992.2	3526.0	3498.1
37.5°	4415.3	4405.5	4363.5	4269.7	4036.2	3752.3	3268.6	3052.3	3285.8	3846.9	3722.7
40°	4903.2	4826.0	4682.0	4611.2	4506.6	4195.8	3582.0	3327.9	3590.3	4153.0	3916.8
42.5°	5498.0	5372.1	5104.0	5007.0	4992.2	4545.3	3795.9	3595.1	3897.0	4456.5	4107.7
45°	5966.2	5847.6	5616.6	5493.9	5548.2	4862.0	4010.7	3880.6	4213.1	4774.9	4304.3
47.5°	6465.6	6279.6	5973.5	6010.6	6129.0	5161.5	4229.5	4187.4	4559.3	5131.1	4548.7
50°	6483.6	6341.2	6207.2	6428.5	6612.9	5437.1	4503.5	4509.1	4983.1	5579.6	4873.7
52.5°	6107.7	6077.3	6290.3	6638.2	6904.1	5655.2	4815.3	4841.5	5525.1	6094.6	5230.7
55°	5976.1	5941.5	6187.4	6565.1	6943.4	5835.3	5153.3	5201.0	6180.9	6637.4	5578.7
57.5°	6296.8	6220.4	6236.8	6530.5	6847.2	6032.7	5521.9	5618.2	6893.4	7112.2	5802.4
60°	7193.5	7029.9	6719.0	6711.4	6899.1	6329.0	5948.0	6065.6	7633.7	7339.2	5715.2
62.5°	8451.6	8287.9	7705.3	7326.0	7298.1	6817.6	6471.3	6502.6	8061.5	7031.6	5183.0
65°	9813.1	9666.7	9015.8	8480.3	8221.9	7627.1	7079.3	6697.6	7921.7	6185.0	4251.7
67.5°	11465.8	11308.8	10749.3	10254.8	10006.4	8933.6	7506.2	6510.7	7034.0	4791.3	3056.4
70°	12621.7	12461.3	12240.8	12641.5	13249.5	10818.4	7561.4	5751.4	5253.6	3184.6	1839.5
72.5°	11113.7	11038.8	11441.2	13128.5	15660.7	11961.9	6834.9	4187.4	3051.4	1690.6	1064.5
73°	10182.5	10165.9	10852.2	12787.1	15677.9	11785.9	6516.6	3892.1	2617.0	1495.7	973.3
75°	4598.1	4730.5	6234.3	9767.0	13621.3	9711.8	4586.4	2232.7	1478.4	1033.3	734.6
77.5°	1104.8	1151.0	1950.6	4638.3	8602.0	5787.6	2078.0	1104.0	945.2	729.8	536.4
80°	470.6	486.3	751.2	1713.6	4050.1	2330.7	957.7	739.7	654.1	509.2	376.0
82.5°	261.6	278.0	426.2	777.5	1634.6	794.7	584.1	515.0	430.3	307.0	244.2
85°	148.1	157.2	249.3	434.4	692.8	319.2	349.6	342.3	242.7	157.9	120.2
87.5°	69.9	75.6	120.2	201.6	271.5	125.0	177.8	195.8	152.3	96.3	62.5
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°	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7
2.5°	2584.1	2598.8	2616.1	2625.1	2633.4	2643.4	2653.1	2653.1	2654.9	2655.6
5°	2566.0	2596.5	2623.6	2635.1	2637.6	2637.6	2635.1	2622.0	2610.4	2615.3
7.5°	2528.1	2572.6	2595.7	2591.5	2560.2	2524.0	2493.5	2456.5	2437.6	2434.3
10°	2473.8	2524.9	2529.0	2487.9	2410.5	2333.2	2268.9	2206.4	2176.9	2169.4
12.5°	2413.7	2460.6	2434.3	2349.5	2225.5	2112.6	2031.2	1967.8	1939.9	1932.6
15°	2365.2	2397.3	2330.7	2197.4	2041.0	1921.8	1854.3	1807.5	1787.6	1782.0
17.5°	2339.7	2346.4	2224.6	2044.5	1878.1	1778.6	1736.8	1714.4	1707.0	1702.9
20°	2352.0	2305.9	2123.4	1902.0	1744.9	1675.0	1665.1	1659.3	1657.7	1655.2
22.5°	2413.7	2293.6	2030.3	1767.1	1628.1	1597.6	1605.9	1605.1	1603.5	1601.8
25°	2524.0	2304.3	1939.9	1638.8	1530.3	1523.6	1538.4	1538.4	1531.9	1531.9
27.5°	2669.7	2326.6	1838.7	1517.1	1441.3	1442.1	1453.6	1450.5	1442.9	1438.0
30°	2847.4	2340.5	1720.3	1407.6	1358.2	1355.0	1358.2	1344.3	1322.0	1320.4
32.5°	3029.2	2323.2	1582.9	1310.5	1270.3	1262.8	1260.3	1240.6	1215.0	1207.7
35°	3193.7	2260.0	1442.9	1233.3	1186.3	1169.9	1181.5	1174.9	1151.7	1146.0
37.5°	3313.8	2142.3	1317.2	1164.9	1126.3	1122.2	1129.6	1132.0	1104.8	1099.2
40°	3394.4	1982.6	1209.4	1107.3	1114.7	1099.2	1074.5	1057.1	1049.0	1046.4
42.5°	3459.5	1816.6	1118.8	1080.2	1117.2	1071.9	1018.5	990.6	1005.4	1011.9
45°	3534.3	1654.4	1043.2	1046.4	1104.8	1040.6	979.8	952.7	958.4	960.1
47.5°	3637.1	1457.1	961.7	992.2	1063.8	1019.2	955.9	917.3	890.1	877.9
50°	3779.3	1223.3	876.9	931.4	1023.3	1003.6	919.0	877.9	827.6	816.1
52.5°	3878.2	1005.4	807.0	880.2	987.2	972.4	889.3	835.9	783.2	773.4
55°	3824.7	835.1	746.2	823.6	939.4	933.8	864.7	793.1	751.9	743.6
57.5°	3557.3	727.3	699.3	770.0	881.1	900.8	831.7	756.9	727.3	721.5
60°	3047.2	659.7	669.6	733.8	833.4	867.9	798.9	737.1	717.3	713.3
62.5°	2364.3	614.5	647.5	707.5	796.3	844.9	780.7	734.6	727.3	722.3
65°	1693.9	578.4	623.7	681.2	762.7	823.6	774.2	731.4	732.9	729.0
67.5°	1151.0	546.3	594.8	651.6	729.8	804.6	765.0	719.8	740.5	735.5
70°	805.4	515.0	561.1	613.7	688.6	778.2	748.6	702.6	700.9	681.2
72.5°	628.5	473.9	515.0	561.1	635.9	741.2	715.7	663.8	636.8	616.1
73°	599.8	464.1	503.5	549.6	624.4	732.2	706.6	653.2	622.7	603.8
75°	496.0	421.2	457.3	498.6	575.0	689.4	662.3	604.6	566.0	554.6
77.5°	390.0	360.3	394.9	431.9	506.7	626.8	596.5	541.3	519.9	510.1
80°	288.7	298.6	329.0	361.9	439.4	560.3	533.1	478.0	573.4	549.6
82.5°	203.1	226.3	254.2	283.9	368.6	495.2	462.4	405.6	419.6	348.8
85°	120.2	148.1	174.5	200.0	265.7	410.5	381.7	323.3	264.9	252.6
87.5°	69.9	82.3	89.7	116.1	182.6	309.3	269.0	239.4	137.4	93.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)