

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: P194081

Luminaire Tested: **GLEON-AF-03-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194081  
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-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 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: 16365 lumens  
Efficiency: N/A  
Efficacy: 85.7 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

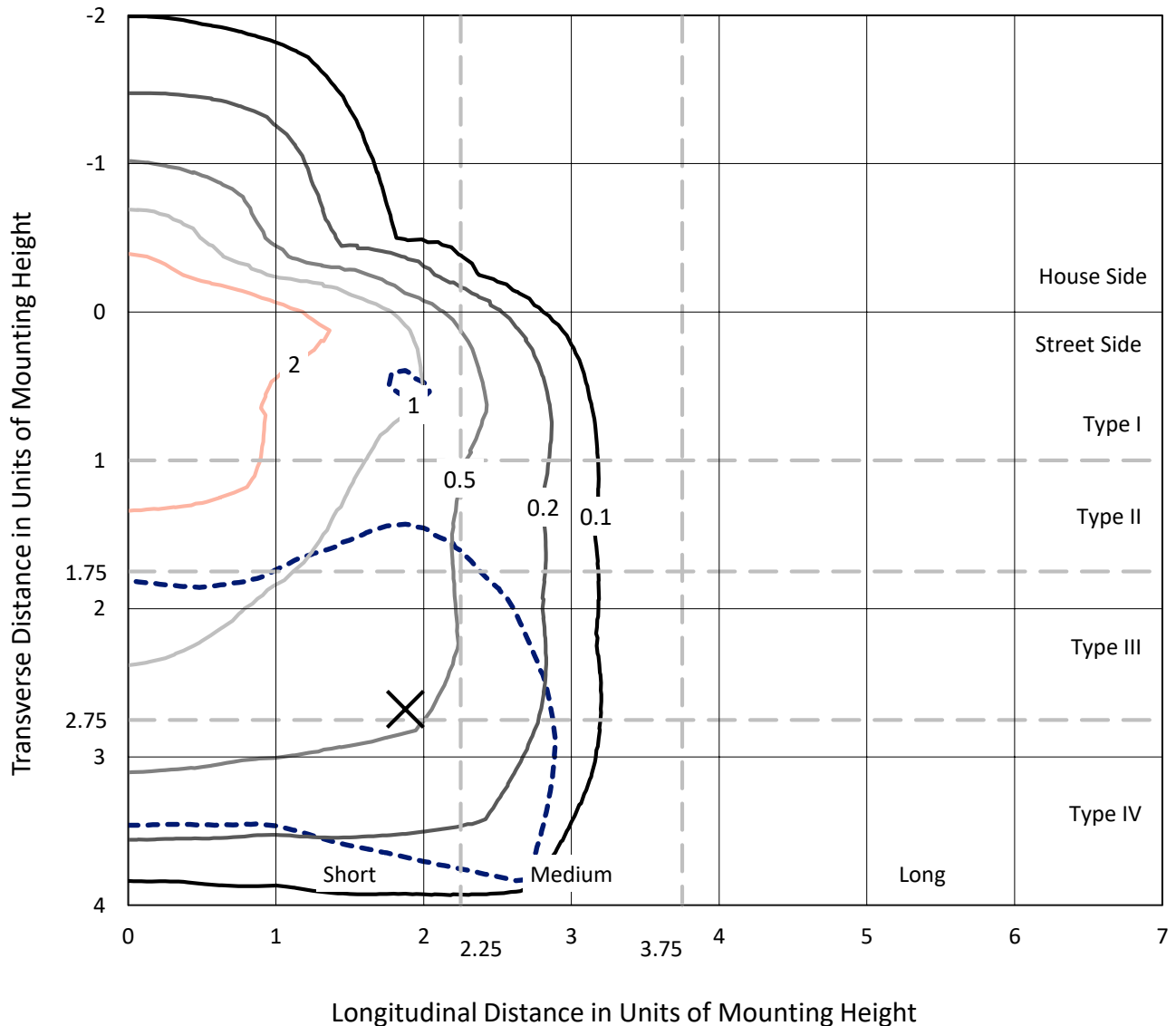


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### Iso-Footcandle Lines of Horizontal Illumination

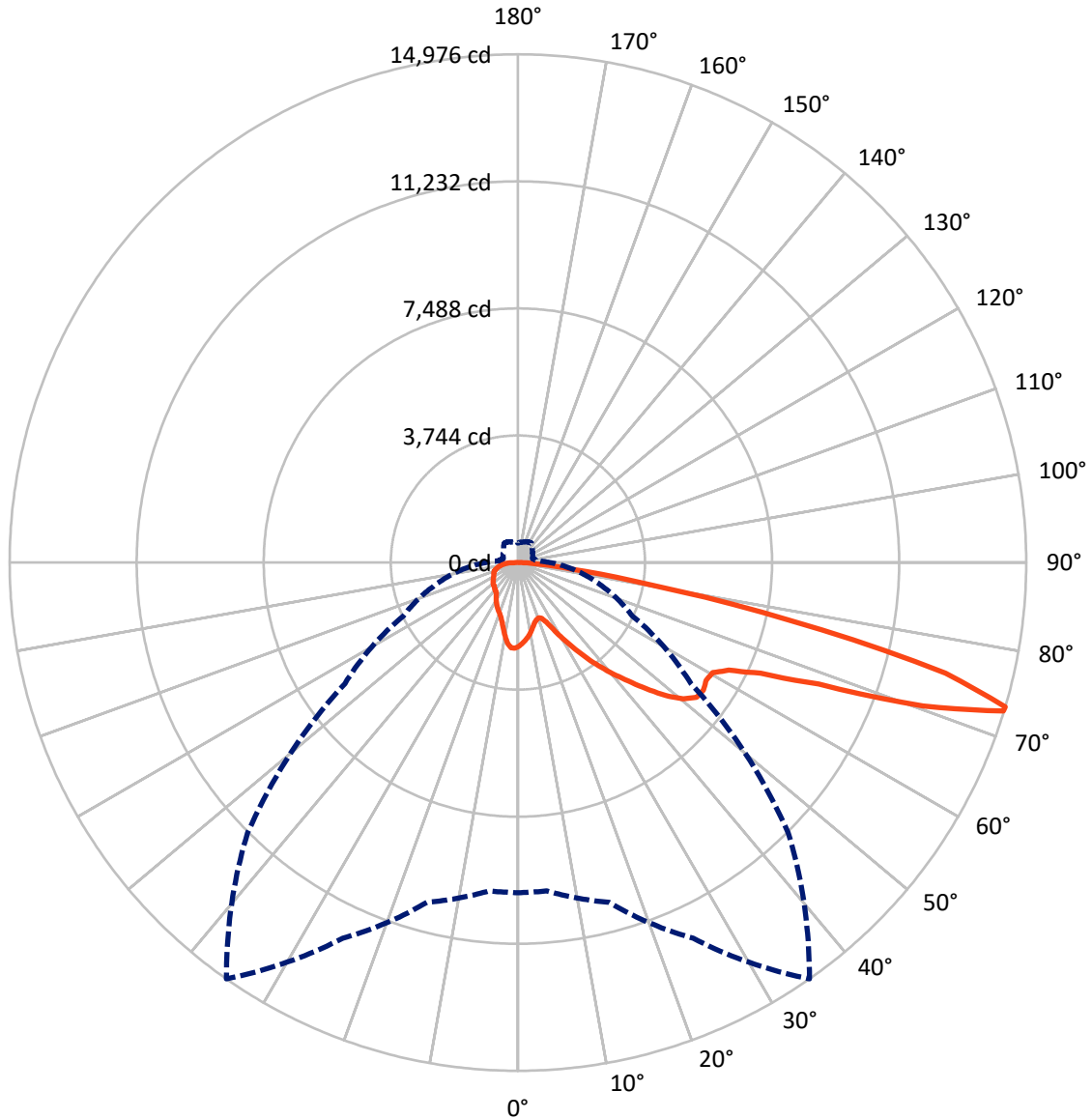
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	3121.3	0.0	3121.3
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	13243.7	0.0	13243.7
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	16365.0	0.0	16365.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.6	1.4
10°-20°	558.1	3.4
20°-30°	902.2	5.5
30°-40°	1512.9	9.2
40°-50°	2332.1	14.3
50°-60°	3128.7	19.1
60°-70°	4168.1	25.5
70°-80°	3179.0	19.4
80°-90°	360.3	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°	16365.0	100.0
0°-180°	16365.0	100.0

**Coefficient of Utilization**



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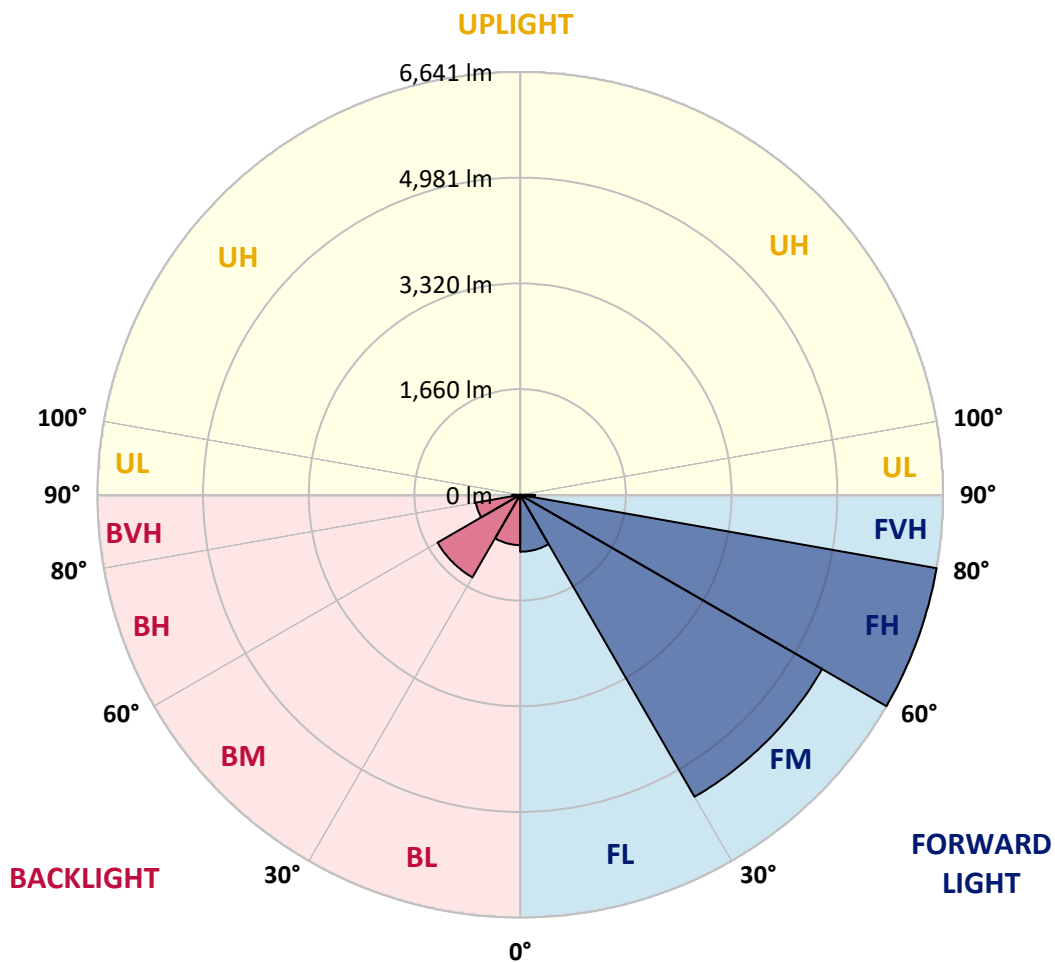
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.1	5.5			
FM (30°-60°)	5475.8	33.5			
FH (60°-80°)	6640.9	40.6			G3/7500
FVH (80°-90°)	232.9	1.4			G3/500
BL (0°-30°)	789.8	4.8	B2/1000		
BM (30°-60°)	1497.9	9.2	B2/2500		
BH (60°-80°)	706.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	127.4	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°	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0
2.5°	2372.5	2377.3	2371.8	2378.8	2390.6	2403.2	2411.8	2424.4	2438.6	2458.2	2462.9
5°	2260.9	2268.0	2268.0	2280.6	2303.4	2323.8	2342.7	2363.1	2393.0	2426.8	2440.1
7.5°	2138.4	2142.3	2149.4	2168.2	2201.2	2230.3	2257.0	2290.0	2330.9	2375.7	2399.3
10°	1990.6	1996.1	2007.1	2033.8	2078.6	2118.7	2157.2	2202.8	2254.7	2310.5	2340.3
12.5°	1886.1	1884.5	1889.2	1908.9	1948.2	1996.9	2052.7	2110.8	2174.5	2239.7	2275.9
15°	1850.7	1842.1	1824.0	1819.3	1840.5	1889.2	1953.7	2025.2	2101.4	2180.0	2224.8
17.5°	1872.7	1857.8	1808.3	1772.1	1769.0	1805.9	1874.3	1954.5	2042.5	2138.4	2194.1
20°	2011.0	1975.7	1853.9	1769.8	1740.7	1758.8	1818.5	1903.4	2007.1	2134.4	2205.9
22.5°	2341.9	2290.0	2031.5	1875.1	1776.9	1754.8	1799.6	1890.0	2011.0	2183.1	2274.3
25°	2823.6	2749.8	2336.4	2137.6	1934.8	1817.7	1827.9	1920.7	2066.8	2296.3	2406.3
27.5°	3204.0	3156.1	2734.8	2507.7	2222.4	1987.5	1919.9	1997.7	2180.8	2481.8	2594.2
30°	3430.3	3401.2	3160.8	2927.4	2589.4	2257.8	2095.9	2142.3	2359.2	2738.8	2831.5
32.5°	3692.8	3675.5	3557.6	3343.1	2985.5	2613.0	2374.9	2358.4	2598.1	3047.6	3090.0
35°	3964.7	3959.2	3890.1	3736.0	3410.7	3081.4	2745.0	2633.4	2858.2	3368.2	3341.5
37.5°	4217.8	4208.3	4168.3	4078.7	3855.5	3584.3	3122.3	2915.6	3138.8	3674.7	3556.1
40°	4683.8	4609.9	4472.4	4404.8	4305.0	4007.9	3421.7	3178.8	3429.5	3967.1	3741.5
42.5°	5252.0	5131.7	4875.5	4782.8	4768.7	4341.9	3626.0	3434.2	3722.7	4257.1	3923.8
45°	5699.1	5586.0	5365.1	5248.0	5299.9	4644.5	3831.1	3706.9	4024.4	4561.2	4111.7
47.5°	6176.1	5998.5	5706.2	5741.6	5854.7	4930.5	4040.2	4000.1	4355.3	4901.5	4345.1
50°	6193.4	6057.5	5929.4	6140.8	6316.8	5193.8	4301.8	4307.3	4760.0	5329.8	4655.5
52.5°	5834.3	5805.2	6008.8	6341.2	6595.0	5402.1	4599.7	4624.8	5277.9	5821.7	4996.6
55°	5708.6	5675.5	5910.5	6271.2	6632.7	5574.2	4922.7	4968.3	5904.2	6340.4	5329.0
57.5°	6015.0	5942.0	5957.7	6238.2	6540.8	5762.8	5274.8	5366.7	6584.8	6793.8	5542.7
60°	6871.6	6715.3	6418.2	6411.1	6590.3	6045.7	5681.8	5794.2	7292.1	7010.7	5459.4
62.5°	8073.2	7916.8	7360.5	6998.2	6971.4	6512.5	6181.6	6211.5	7700.7	6716.8	4951.0
65°	9373.8	9234.0	8612.3	8100.7	7854.0	7285.8	6762.4	6397.8	7567.1	5908.2	4061.4
67.5°	10952.7	10802.6	10268.2	9795.9	9558.5	8533.8	7170.3	6219.4	6719.2	4576.9	2919.5
70°	12056.8	11903.6	11692.9	12075.7	12656.4	10334.2	7222.9	5494.0	5018.6	3042.1	1757.2
72.5°	10616.3	10544.8	10929.1	12540.9	14959.8	11426.5	6529.0	4000.1	2914.8	1615.0	1016.9
73°	9726.7	9711.0	10366.4	12214.8	14976.3	11258.4	6224.9	3717.9	2499.8	1428.7	929.7
75°	4392.2	4518.7	5955.3	9329.8	13011.6	9277.2	4381.2	2132.8	1412.2	987.1	701.8
77.5°	1055.4	1099.4	1863.3	4430.7	8217.0	5528.6	1985.1	1054.6	903.0	697.1	512.4
80°	449.5	464.4	717.5	1637.0	3868.8	2226.4	914.8	706.5	624.8	486.5	359.1
82.5°	249.9	265.6	407.1	742.6	1561.5	759.1	558.0	492.0	411.0	293.1	233.4
85°	141.5	150.1	238.1	414.9	661.7	304.9	334.0	326.9	231.8	150.9	114.7
87.5°	66.8	72.3	114.7	192.5	259.3	119.5	169.7	187.0	145.4	91.9	59.7
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°	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0
2.5°	2468.4	2482.6	2499.1	2507.7	2515.6	2525.0	2534.4	2534.4	2536.0	2536.8
5°	2451.1	2480.2	2506.1	2517.1	2519.5	2519.5	2517.1	2504.6	2493.6	2498.3
7.5°	2415.0	2457.4	2479.4	2475.5	2445.6	2411.0	2382.0	2346.6	2328.5	2325.4
10°	2363.1	2411.8	2415.8	2376.5	2302.6	2228.7	2167.4	2107.7	2079.4	2072.3
12.5°	2305.7	2350.5	2325.4	2244.4	2125.8	2018.1	1940.3	1879.8	1853.1	1846.0
15°	2259.4	2290.0	2226.4	2099.1	1949.7	1835.8	1771.3	1726.6	1707.7	1702.2
17.5°	2235.0	2241.3	2125.0	1952.9	1794.1	1699.0	1659.0	1637.8	1630.7	1626.7
20°	2246.8	2202.8	2028.3	1816.9	1666.8	1600.0	1590.6	1585.1	1583.5	1581.2
22.5°	2305.7	2191.0	1939.5	1688.0	1555.2	1526.2	1534.0	1533.2	1531.7	1530.1
25°	2411.0	2201.2	1853.1	1565.5	1461.7	1455.4	1469.6	1469.6	1463.3	1463.3
27.5°	2550.1	2222.4	1756.4	1449.1	1376.8	1377.6	1388.6	1385.5	1378.4	1373.7
30°	2719.9	2235.8	1643.3	1344.6	1297.5	1294.3	1297.5	1284.1	1262.9	1261.3
32.5°	2893.6	2219.3	1512.0	1251.9	1213.4	1206.3	1204.0	1185.1	1160.7	1153.7
35°	3050.7	2158.8	1378.4	1178.0	1133.2	1117.5	1128.5	1122.2	1100.2	1094.7
37.5°	3165.5	2046.4	1258.2	1112.8	1075.9	1071.9	1079.0	1081.4	1055.4	1049.9
40°	3242.5	1893.9	1155.2	1057.8	1064.9	1049.9	1026.3	1009.8	1002.0	999.6
42.5°	3304.6	1735.2	1068.8	1031.8	1067.2	1024.0	972.9	946.2	960.3	966.6
45°	3376.1	1580.4	996.5	999.6	1055.4	994.1	936.0	910.0	915.5	917.1
47.5°	3474.3	1391.8	918.7	947.8	1016.1	973.7	913.2	876.2	850.3	838.5
50°	3610.3	1168.6	837.7	889.6	977.6	958.8	877.8	838.5	790.6	779.6
52.5°	3704.6	960.3	770.9	840.9	943.0	928.9	849.5	798.4	748.1	738.7
55°	3653.5	797.7	712.8	786.7	897.5	892.0	825.9	757.6	718.3	710.4
57.5°	3398.1	694.7	668.0	735.6	841.7	860.5	794.5	723.0	694.7	689.2
60°	2910.9	630.3	639.7	701.0	796.1	829.1	763.1	704.1	685.3	681.3
62.5°	2258.6	587.0	618.5	675.8	760.7	807.1	745.8	701.8	694.7	690.0
65°	1618.1	552.5	595.7	650.7	728.5	786.7	739.5	698.6	700.2	696.3
67.5°	1099.4	521.8	568.2	622.4	697.1	768.6	730.9	687.6	707.3	702.6
70°	769.4	492.0	536.0	586.3	657.8	743.4	715.1	671.1	669.6	650.7
72.5°	600.4	452.7	492.0	536.0	607.5	708.1	683.7	634.2	608.3	588.6
73°	572.9	443.2	481.0	525.0	596.5	699.4	675.1	624.0	594.9	576.8
75°	473.9	402.4	436.9	476.2	549.3	658.6	632.6	577.6	540.7	529.7
77.5°	372.5	344.2	377.2	412.6	484.1	598.8	569.8	517.1	496.7	487.2
80°	275.8	285.3	314.3	345.8	419.7	535.2	509.2	456.6	547.8	525.0
82.5°	194.1	216.1	242.8	271.1	352.1	473.1	441.7	387.4	400.8	333.2
85°	114.7	141.5	166.6	191.0	253.8	392.1	364.6	308.8	253.0	241.3
87.5°	66.8	78.6	85.7	110.8	174.5	295.5	257.0	228.7	131.2	88.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)