

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: P192233

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19605 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

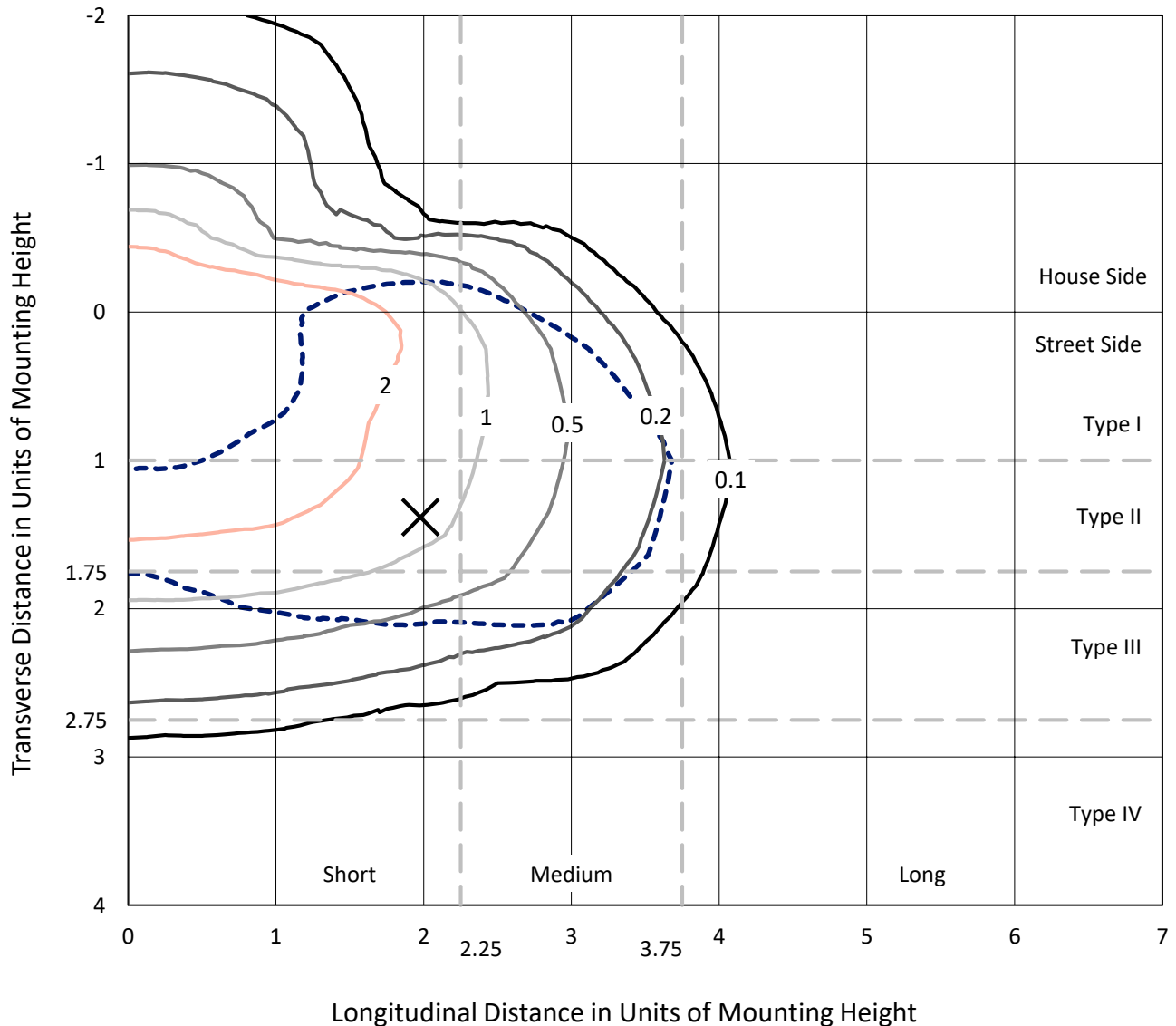
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

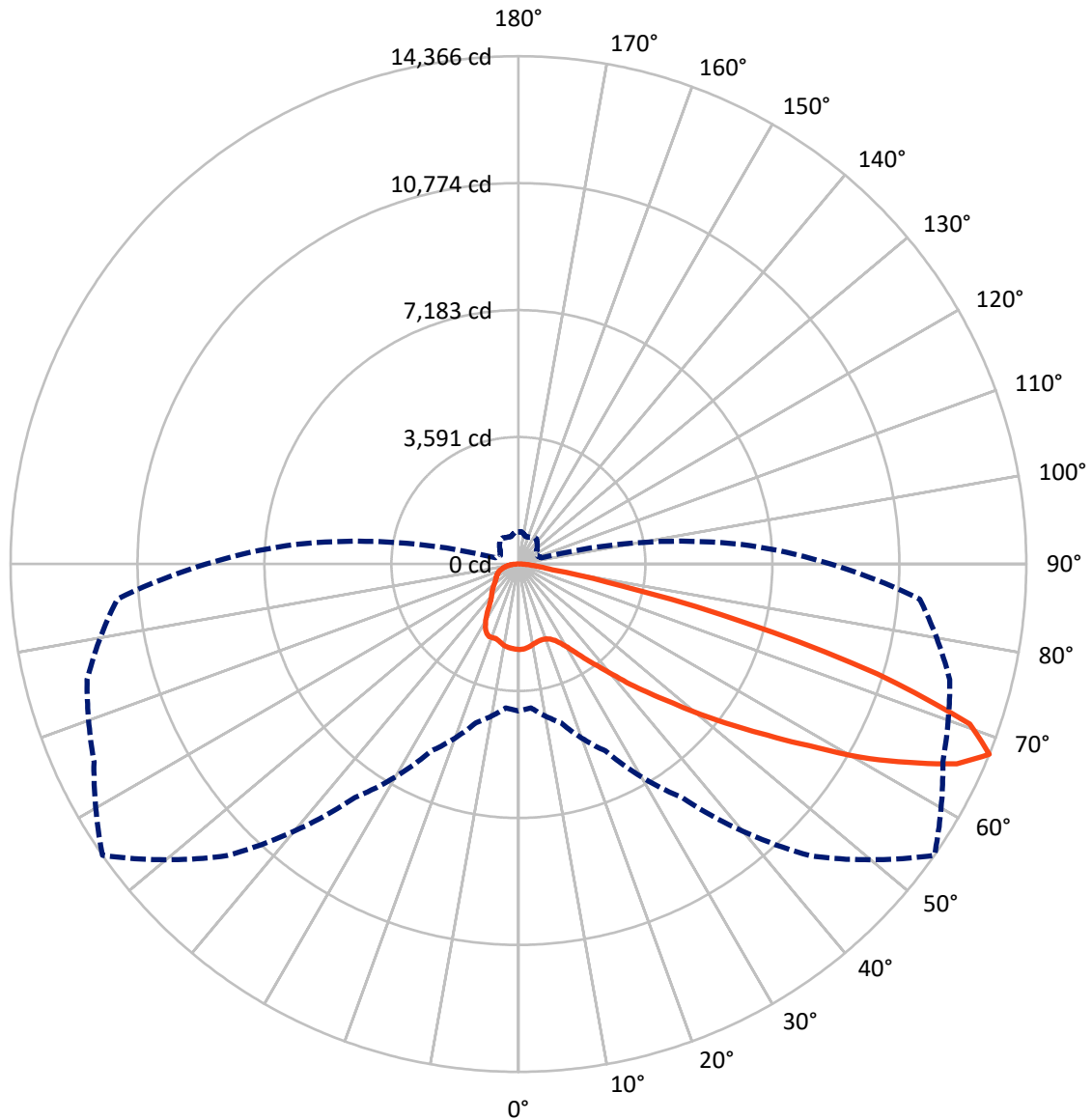
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4235.1	0.0	4235.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	15369.9	0.0	15369.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	19605.0	0.0	19605.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.6	1.2
10°-20°	639.1	3.3
20°-30°	1070.5	5.5
30°-40°	1760.4	9.0
40°-50°	2963.3	15.1
50°-60°	4664.0	23.8
60°-70°	5566.0	28.4
70°-80°	2390.1	12.2
80°-90°	325.9	1.7
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°	19605.0	100.0
0°-180°	19605.0	100.0



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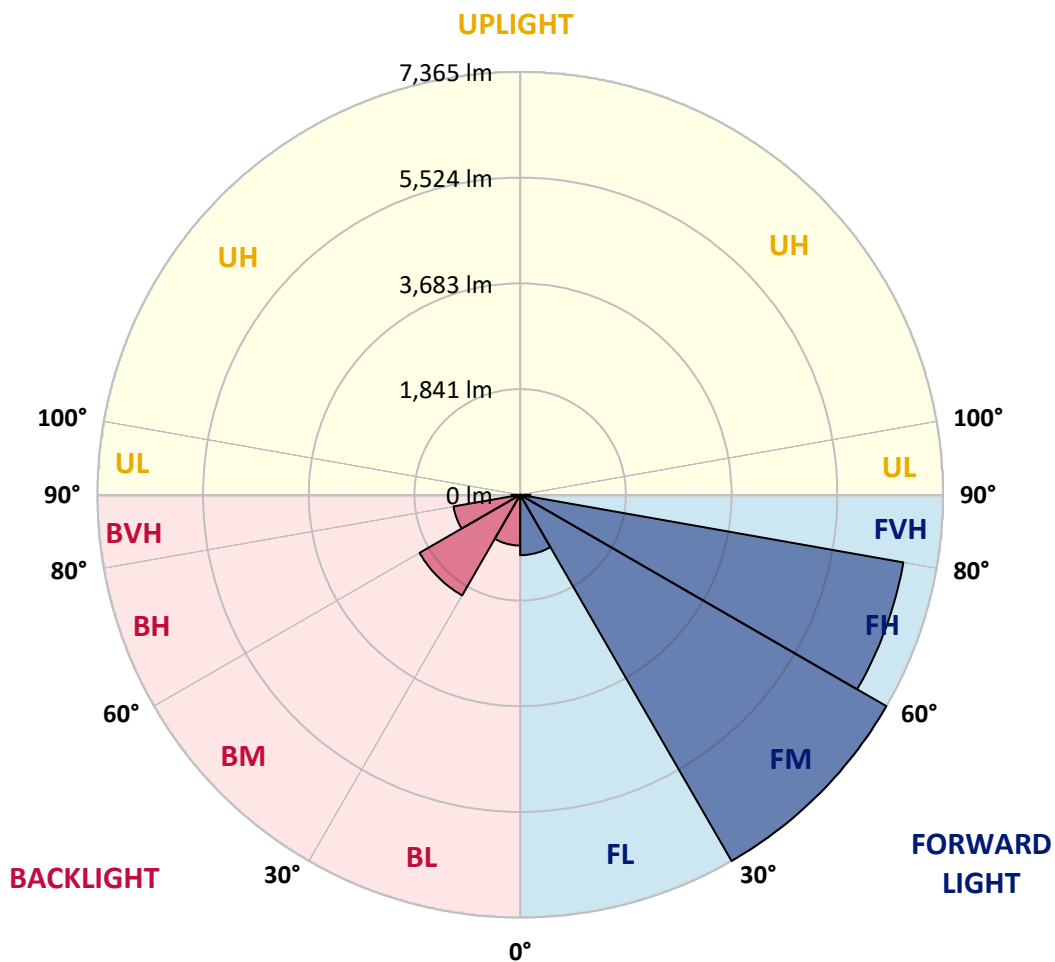
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.9	5.4			
FM (30°-60°)	7365.1	37.6			
FH (60°-80°)	6777.5	34.6			G3/7500
FVH (80°-90°)	176.4	0.9			G2/225
BL (0°-30°)	884.4	4.5	B2/1000		
BM (30°-60°)	2022.6	10.3	B2/2500		
BH (60°-80°)	1178.6	6.0	B3/2500		G3/2500
BVH (80°-90°)	149.5	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5
2.5°	2396.7	2397.6	2399.5	2407.1	2413.7	2411.8	2412.8	2409.0	2408.0	2402.4	2408.0
5°	2366.4	2369.2	2370.2	2382.5	2390.0	2391.9	2389.1	2384.4	2378.7	2373.0	2375.8
7.5°	2297.3	2304.8	2305.8	2322.8	2335.1	2351.2	2352.2	2353.1	2350.3	2346.5	2352.2
10°	2253.7	2255.6	2254.6	2266.9	2276.4	2294.4	2304.8	2322.8	2330.4	2332.3	2336.1
12.5°	2250.9	2249.0	2246.1	2246.1	2243.3	2250.9	2269.8	2295.4	2313.3	2319.0	2323.8
15°	2281.2	2280.2	2270.7	2256.5	2238.5	2232.9	2249.0	2277.4	2301.0	2313.3	2318.1
17.5°	2349.3	2343.7	2328.5	2296.3	2257.5	2242.3	2244.2	2267.9	2295.4	2311.5	2316.2
20°	2474.3	2474.3	2442.1	2381.5	2312.4	2276.4	2259.4	2273.6	2300.1	2321.9	2328.5
22.5°	2690.2	2692.1	2638.1	2538.7	2422.2	2345.5	2302.9	2300.1	2331.3	2356.0	2363.5
25°	2996.1	2988.5	2912.8	2770.7	2593.6	2466.8	2392.9	2375.8	2402.4	2429.8	2439.3
27.5°	3352.1	3324.7	3234.7	3063.3	2834.2	2648.6	2534.9	2507.5	2533.0	2564.3	2573.8
30°	3704.4	3676.0	3569.0	3381.5	3126.8	2891.9	2729.1	2684.5	2720.5	2765.0	2770.7
32.5°	4056.6	4056.6	3937.3	3718.6	3441.1	3182.6	2987.6	2934.5	2994.2	3048.2	3060.5
35°	4478.0	4479.9	4364.4	4101.2	3802.9	3529.2	3314.3	3275.4	3365.4	3403.3	3432.6
37.5°	4996.0	5006.4	4857.7	4539.6	4212.9	3925.0	3669.4	3616.3	3706.3	3809.5	3904.2
40°	5555.6	5568.9	5405.1	5013.0	4686.4	4385.2	4108.7	4013.1	4162.7	4359.7	4481.8
42.5°	6089.7	6157.9	5999.7	5596.4	5245.0	4933.5	4653.2	4514.0	4701.5	4998.8	5104.9
45°	6861.5	6910.7	6635.1	6269.6	5939.1	5590.7	5219.5	5072.7	5335.0	5710.0	5731.8
47.5°	7375.6	7338.7	7198.6	6971.3	6762.0	6436.3	5877.6	5716.6	6065.1	6506.4	6384.2
50°	7649.3	7660.7	7641.7	7655.0	7662.6	7458.0	6684.4	6463.7	6879.4	7412.6	7131.3
52.5°	7905.0	7829.2	7891.7	8202.3	8577.3	8501.5	7562.2	7332.1	7752.5	8418.2	7921.1
55°	7899.3	7783.8	7987.3	8535.6	9349.0	9436.2	8547.9	8282.8	8675.8	9496.8	8758.1
57.5°	7619.9	7625.6	7939.1	8656.8	9886.9	10314.9	9691.8	9294.1	9654.9	10589.5	9522.3
60°	7235.5	7287.6	7739.3	8636.9	10317.7	11035.5	11095.2	10384.0	10614.1	11582.8	10154.9
62.5°	6615.2	6670.2	7293.2	8430.5	10252.4	11729.6	12364.1	11620.7	11616.9	12185.1	10340.5
65°	5637.1	5621.0	6275.3	7658.8	9704.1	12242.8	13624.4	12689.8	12372.6	12194.6	9967.4
67.5°	4157.0	4085.1	4646.6	5833.1	8065.9	11668.1	14365.9	13246.6	12630.1	11392.5	8827.3
70°	2157.1	2085.1	2539.7	3406.1	5304.7	9106.6	13544.9	12958.7	12061.0	9549.8	6915.4
72.5°	922.3	910.0	1094.7	1494.3	2566.2	5252.6	10620.8	11216.4	10349.0	7115.2	4754.5
75°	620.2	616.5	685.6	814.4	1154.3	2131.5	6646.5	7961.8	7571.6	4411.7	2674.1
77.5°	486.7	482.0	522.7	585.2	748.1	840.9	2949.7	4274.4	3956.3	1920.4	1170.4
80°	380.7	376.9	402.4	436.5	537.9	530.3	970.6	1700.7	1316.2	735.8	569.1
82.5°	300.2	300.2	321.0	322.0	381.6	361.7	506.6	749.0	657.2	429.0	348.5
85°	274.6	274.6	296.4	240.5	249.0	228.2	314.4	444.1	416.6	176.1	151.5
87.5°	138.3	134.5	249.0	213.1	135.4	121.2	153.4	215.0	231.1	97.5	75.8
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°	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5	2417.5
2.5°	2406.1	2405.2	2407.1	2408.0	2415.6	2426.0	2430.8	2437.4	2441.2	2439.3
5°	2377.7	2379.6	2387.2	2392.9	2406.1	2423.2	2432.7	2440.2	2446.9	2444.0
7.5°	2354.1	2358.8	2370.2	2374.9	2382.5	2387.2	2386.3	2389.1	2394.8	2388.2
10°	2340.8	2346.5	2355.0	2348.4	2330.4	2304.8	2281.2	2268.8	2272.6	2267.9
12.5°	2327.6	2335.1	2328.5	2297.3	2247.1	2213.9	2195.9	2197.8	2206.3	2208.2
15°	2320.0	2322.8	2294.4	2235.7	2184.6	2179.8	2189.3	2187.4	2188.4	2188.4
17.5°	2320.0	2312.4	2259.4	2200.7	2178.9	2170.4	2141.0	2104.1	2088.0	2082.3
20°	2332.3	2312.4	2248.0	2209.2	2161.8	2088.9	2011.3	1943.1	1912.8	1904.3
22.5°	2369.2	2335.1	2280.2	2213.0	2078.5	1956.4	1833.3	1751.8	1696.9	1687.4
25°	2444.0	2406.1	2343.7	2162.8	1945.9	1771.7	1631.6	1540.7	1485.7	1478.2
27.5°	2574.7	2550.1	2377.7	2052.0	1769.8	1583.3	1453.5	1383.5	1342.7	1339.9
30°	2771.7	2759.4	2360.7	1888.2	1553.0	1400.5	1338.0	1297.3	1267.0	1266.0
32.5°	3086.0	2986.6	2304.8	1688.4	1355.1	1270.8	1245.2	1220.6	1196.9	1196.9
35°	3490.4	3170.3	2198.8	1474.4	1234.8	1198.8	1166.6	1127.8	1096.5	1094.7
37.5°	3965.7	3284.0	2008.4	1302.0	1178.0	1150.5	1103.2	1045.4	990.5	981.0
40°	4445.8	3318.0	1740.5	1196.0	1142.0	1102.2	1044.5	976.3	923.3	920.4
42.5°	4886.2	3252.7	1456.4	1123.1	1106.0	1053.0	992.4	931.8	890.1	889.2
45°	5255.5	3083.2	1217.8	1053.9	1068.1	1008.5	954.5	905.3	873.1	866.4
47.5°	5603.0	2843.6	1050.1	981.0	1030.3	983.9	938.4	892.0	860.8	856.0
50°	6006.4	2585.1	932.7	910.0	997.1	975.3	951.7	903.4	851.3	845.6
52.5°	6495.0	2361.6	840.9	847.5	971.5	986.7	985.8	935.6	844.7	837.1
55°	7040.4	2113.5	771.7	796.4	961.1	1007.5	994.3	965.9	850.3	839.0
57.5°	7577.3	1823.8	723.5	757.5	946.0	1005.6	953.6	912.8	863.6	847.5
60°	7979.8	1434.6	686.5	723.5	912.8	974.4	909.1	855.1	860.8	848.4
62.5°	8006.3	1108.9	642.0	694.1	862.7	943.1	879.7	829.5	873.1	861.7
65°	7535.7	838.0	599.4	659.1	808.7	923.3	851.3	815.3	898.6	886.3
67.5°	6344.4	674.2	563.4	623.1	754.7	881.6	825.7	802.0	921.4	899.6
70°	4580.3	574.8	528.4	579.5	706.4	834.2	803.0	778.4	859.8	825.7
72.5°	2820.0	498.1	488.6	521.8	669.5	785.0	768.9	733.9	774.6	747.1
75°	1408.1	431.8	444.1	464.9	617.4	729.1	712.1	677.1	682.7	677.1
77.5°	674.2	369.3	392.0	408.1	550.2	665.7	647.7	611.7	605.1	606.0
80°	427.1	308.7	330.5	341.8	491.5	591.8	573.8	537.9	613.6	569.1
82.5°	267.0	250.9	256.6	277.5	428.0	515.1	491.5	459.3	553.0	437.5
85°	147.7	175.2	182.8	200.7	329.5	430.9	407.2	366.5	328.6	322.9
87.5°	88.1	104.2	107.0	120.3	221.6	311.5	275.6	261.4	216.8	215.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)