

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: P193992

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193992  
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-04-LED-E1-T3-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19598 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

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

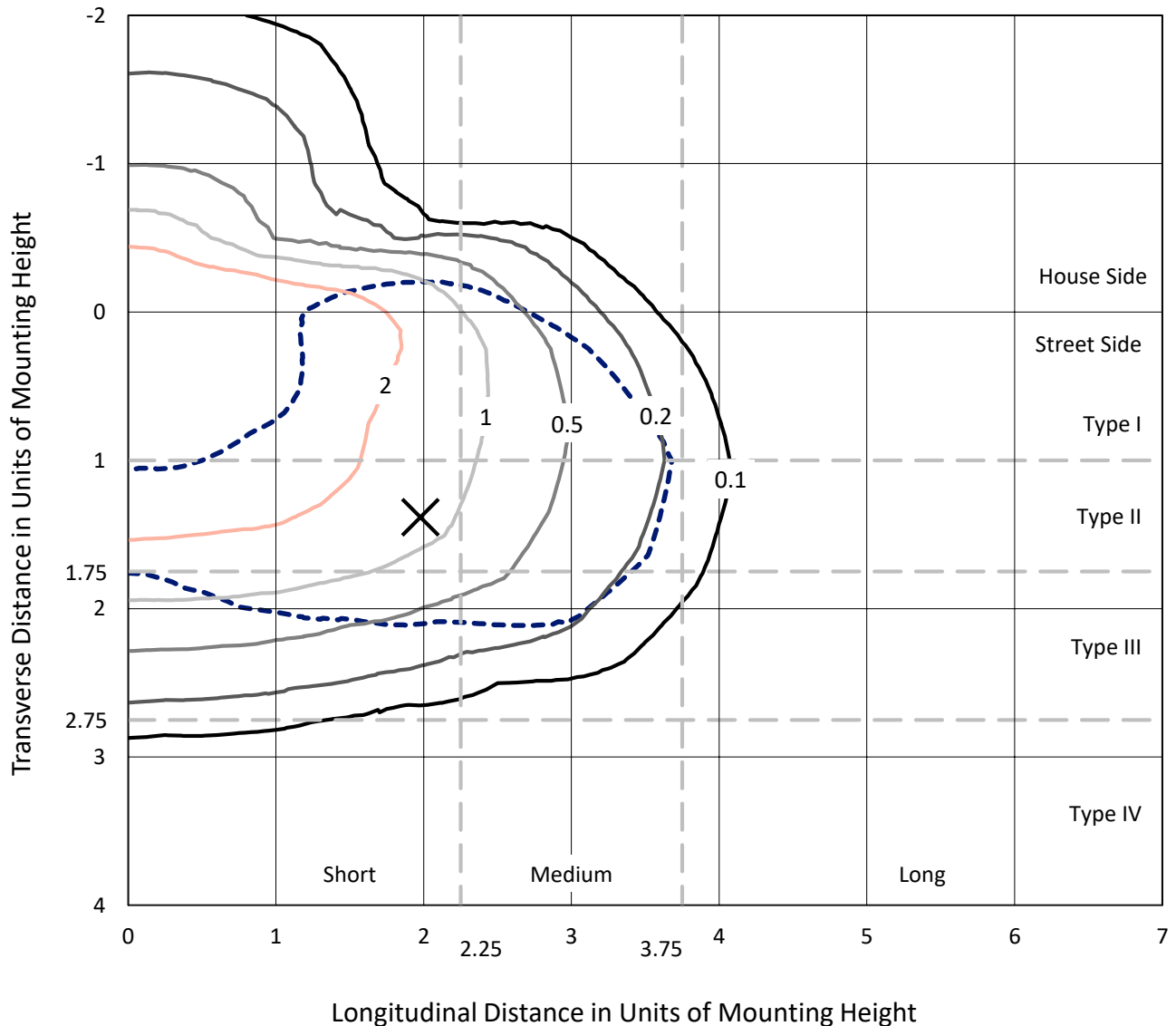


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

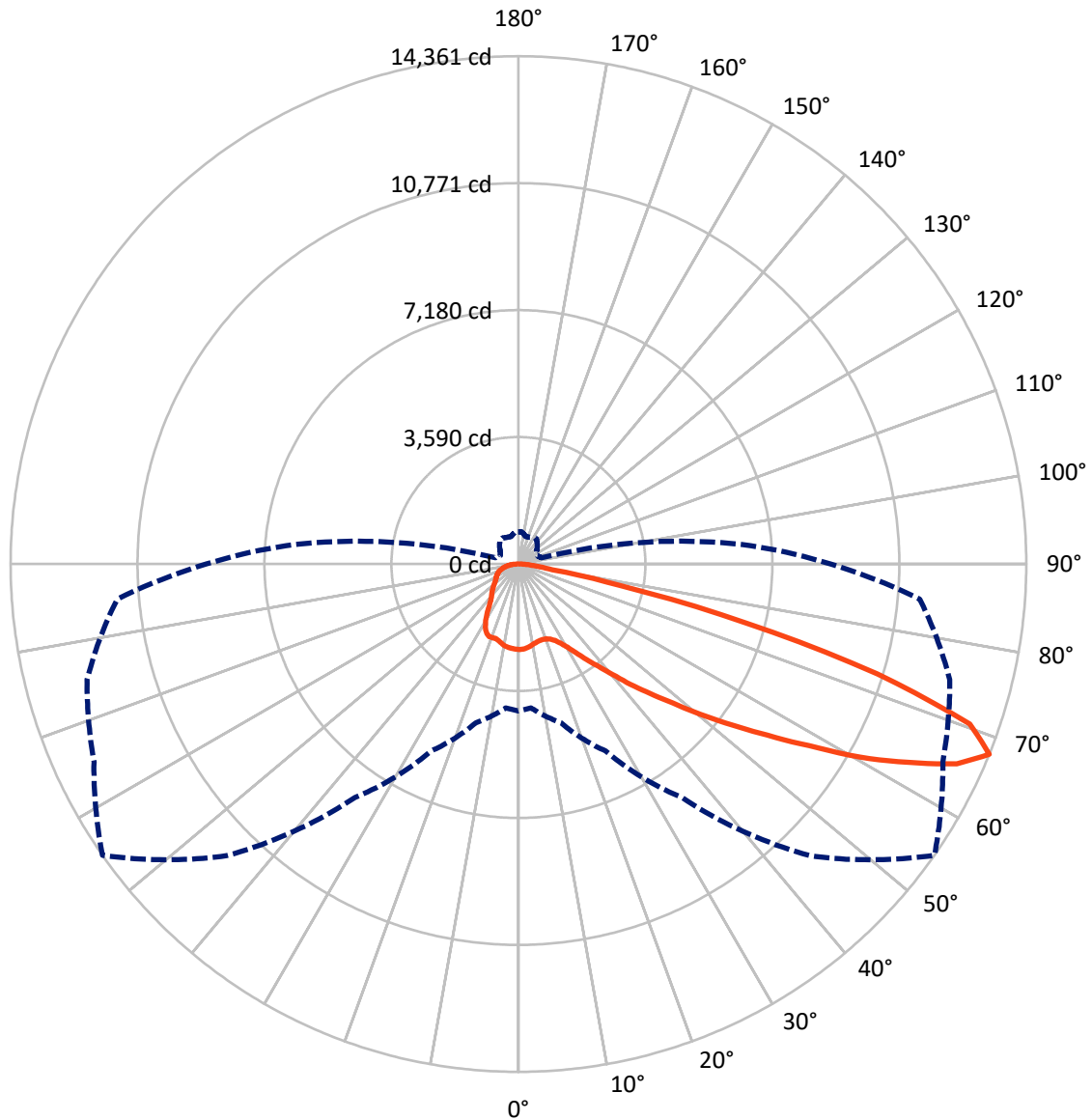


Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - Full Cutoff

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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	4233.6	0.0	4233.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	15364.4	0.0	15364.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	19598.0	0.0	19598.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.6	1.2
10°-20°	638.8	3.3
20°-30°	1070.1	5.5
30°-40°	1759.8	9.0
40°-50°	2962.2	15.1
50°-60°	4662.4	23.8
60°-70°	5564.0	28.4
70°-80°	2389.3	12.2
80°-90°	325.8	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°	19598.0	100.0
0°-180°	19598.0	100.0



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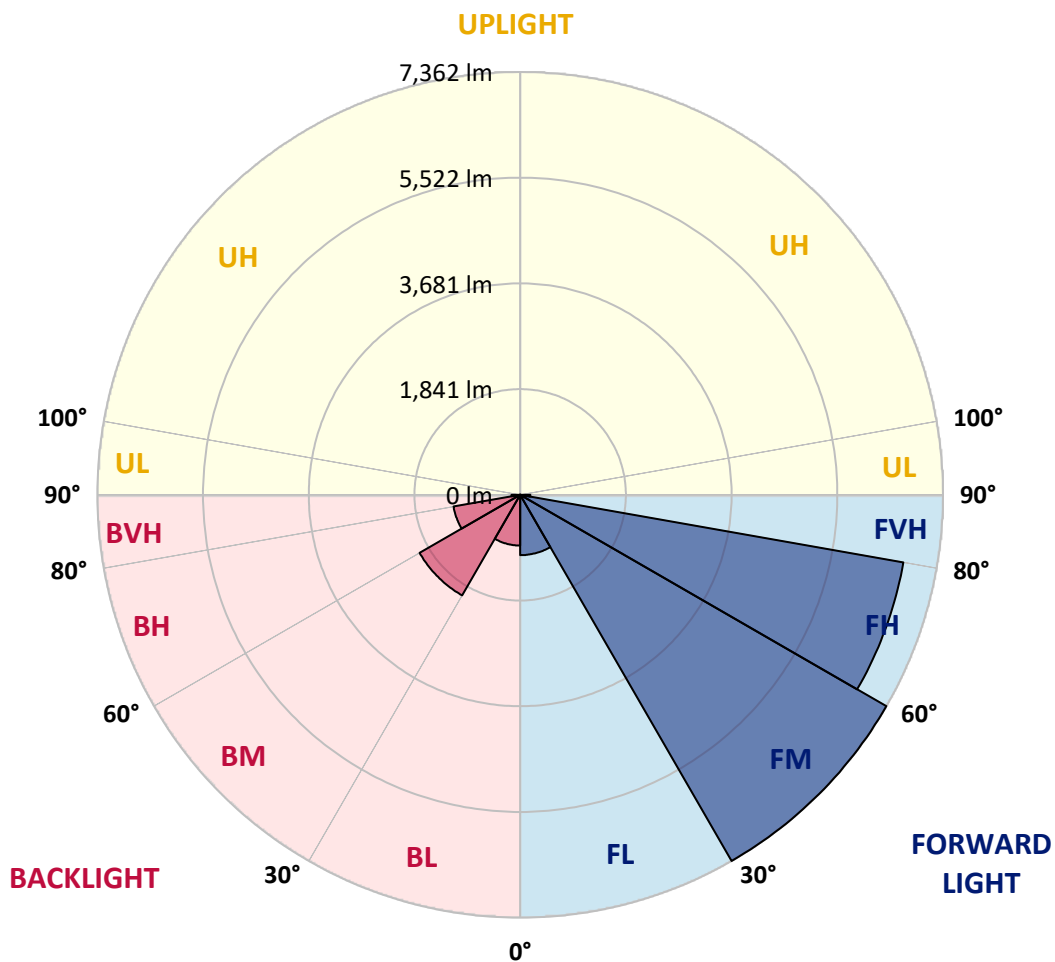
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1050.5	5.4			
FM	(30°-60°)	7362.5	37.6			
FH	(60°-80°)	6775.1	34.6			G3/7500
FVH	(80°-90°)	176.3	0.9			G2/225
BL	(0°-30°)	884.1	4.5	B2/1000		
BM	(30°-60°)	2021.9	10.3	B2/2500		
BH	(60°-80°)	1178.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	149.4	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6
2.5°	2395.8	2396.8	2398.7	2406.2	2412.9	2411.0	2411.9	2408.1	2407.2	2401.5	2407.2
5°	2365.5	2368.4	2369.3	2381.6	2389.2	2391.1	2388.2	2383.5	2377.8	2372.2	2375.0
7.5°	2296.4	2304.0	2304.9	2322.0	2334.3	2350.4	2351.3	2352.3	2349.4	2345.7	2351.3
10°	2252.9	2254.8	2253.8	2266.1	2275.6	2293.6	2304.0	2322.0	2329.6	2331.5	2335.2
12.5°	2250.0	2248.2	2245.3	2245.3	2242.5	2250.0	2269.0	2294.5	2312.5	2318.2	2322.9
15°	2280.3	2279.4	2269.9	2255.7	2237.7	2232.1	2248.2	2276.6	2300.2	2312.5	2317.3
17.5°	2348.5	2342.8	2327.7	2295.5	2256.7	2241.5	2243.4	2267.1	2294.5	2310.6	2315.4
20°	2473.4	2473.4	2441.3	2380.7	2311.6	2275.6	2258.6	2272.8	2299.3	2321.0	2327.7
22.5°	2689.3	2691.2	2637.2	2537.8	2421.4	2344.7	2302.1	2299.3	2330.5	2355.1	2362.7
25°	2995.0	2987.4	2911.7	2769.7	2592.7	2465.9	2392.0	2375.0	2401.5	2429.0	2438.4
27.5°	3350.9	3323.5	3233.6	3062.2	2833.1	2647.6	2534.0	2506.6	2532.1	2563.4	2572.8
30°	3703.1	3674.7	3567.7	3380.3	3125.6	2890.9	2728.1	2683.6	2719.6	2764.0	2769.7
32.5°	4055.2	4055.2	3935.9	3717.3	3439.9	3181.5	2986.5	2933.5	2993.1	3047.1	3059.4
35°	4476.4	4478.3	4362.8	4099.7	3801.5	3527.9	3313.1	3274.3	3364.2	3402.0	3431.4
37.5°	4994.2	5004.6	4856.0	4538.0	4211.4	3923.6	3668.0	3615.0	3705.0	3808.1	3902.8
40°	5553.7	5566.9	5403.1	5011.3	4684.7	4383.7	4107.3	4011.7	4161.2	4358.1	4480.2
42.5°	6087.5	6155.7	5997.6	5594.4	5243.2	4931.7	4651.5	4512.4	4699.8	4997.1	5103.1
45°	6859.0	6908.2	6632.8	6267.4	5937.0	5588.7	5217.6	5070.9	5333.1	5707.9	5729.7
47.5°	7373.0	7336.1	7196.0	6968.8	6759.6	6434.0	5875.5	5714.6	6062.9	6504.0	6381.9
50°	7646.6	7657.9	7639.0	7652.2	7659.8	7455.4	6682.0	6461.4	6877.0	7409.9	7128.8
52.5°	7902.1	7826.4	7888.9	8199.4	8574.2	8498.5	7559.5	7329.5	7749.7	8415.2	7918.2
55°	7896.5	7781.0	7984.5	8532.6	9345.7	9432.8	8544.9	8279.8	8672.7	9493.4	8755.0
57.5°	7617.2	7622.9	7936.2	8653.7	9883.4	10311.2	9688.4	9290.8	9651.4	10585.7	9518.9
60°	7232.9	7285.0	7736.5	8633.9	10314.1	11031.6	11091.2	10380.3	10610.3	11578.7	10151.2
62.5°	6612.9	6667.8	7290.6	8427.5	10248.7	11725.4	12359.6	11616.6	11612.8	12180.7	10336.8
65°	5635.1	5619.0	6273.1	7656.0	9700.7	12238.5	13619.6	12685.3	12368.2	12190.2	9963.8
67.5°	4155.5	4083.6	4644.9	5831.0	8063.1	11663.9	14360.7	13241.9	12625.6	11388.4	8824.1
70°	2156.3	2084.4	2538.8	3404.9	5302.8	9103.4	13540.0	12954.1	12056.7	9546.4	6913.0
72.5°	922.0	909.7	1094.3	1493.7	2565.3	5250.7	10617.0	11212.4	10345.3	7112.7	4752.8
75°	620.0	616.2	685.3	814.1	1153.9	2130.8	6644.1	7958.9	7568.9	4410.2	2673.2
77.5°	486.5	481.8	522.5	585.0	747.8	840.6	2948.6	4272.9	3954.9	1919.7	1170.0
80°	380.5	376.7	402.3	436.4	537.7	530.1	970.3	1700.1	1315.8	735.5	568.9
82.5°	300.1	300.1	320.9	321.8	381.5	361.6	506.4	748.8	656.9	428.8	348.3
85°	274.5	274.5	296.3	240.4	249.0	228.1	314.3	444.0	416.5	176.1	151.5
87.5°	138.2	134.4	249.0	213.0	135.4	121.2	153.3	214.9	231.0	97.5	75.7
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°	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6	2416.6
2.5°	2405.3	2404.3	2406.2	2407.2	2414.8	2425.2	2429.9	2436.5	2440.3	2438.4
5°	2376.9	2378.8	2386.4	2392.0	2405.3	2422.3	2431.8	2439.4	2446.0	2443.2
7.5°	2353.2	2358.0	2369.3	2374.1	2381.6	2386.4	2385.4	2388.2	2393.9	2387.3
10°	2340.0	2345.7	2354.2	2347.5	2329.6	2304.0	2280.3	2268.0	2271.8	2267.1
12.5°	2326.7	2334.3	2327.7	2296.4	2246.3	2213.1	2195.1	2197.0	2205.6	2207.5
15°	2319.1	2322.0	2293.6	2234.9	2183.8	2179.1	2188.5	2186.6	2187.6	2187.6
17.5°	2319.1	2311.6	2258.6	2199.9	2178.1	2169.6	2140.2	2103.3	2087.2	2081.6
20°	2331.5	2311.6	2247.2	2208.4	2161.1	2088.2	2010.6	1942.4	1912.1	1903.6
22.5°	2368.4	2334.3	2279.4	2212.2	2077.8	1955.7	1832.6	1751.2	1696.3	1686.8
25°	2443.2	2405.3	2342.8	2162.0	1945.2	1771.1	1631.0	1540.1	1485.2	1477.6
27.5°	2573.8	2549.2	2376.9	2051.3	1769.2	1582.7	1453.0	1383.0	1342.3	1339.4
30°	2770.7	2758.4	2359.9	1887.5	1552.4	1400.0	1337.5	1296.8	1266.5	1265.6
32.5°	3084.9	2985.5	2304.0	1687.8	1354.6	1270.3	1244.8	1220.2	1196.5	1196.5
35°	3489.1	3169.2	2198.0	1473.8	1234.4	1198.4	1166.2	1127.4	1096.2	1094.3
37.5°	3964.3	3282.8	2007.7	1301.6	1177.6	1150.1	1102.8	1045.0	990.1	980.7
40°	4444.2	3316.9	1739.8	1195.5	1141.6	1101.8	1044.1	975.9	922.9	920.1
42.5°	4884.4	3251.5	1455.9	1122.7	1105.6	1052.6	992.0	931.4	889.8	888.8
45°	5253.6	3082.1	1217.3	1053.6	1067.8	1008.1	954.2	904.9	872.8	866.1
47.5°	5601.0	2842.6	1049.8	980.7	1029.9	983.5	938.1	891.7	860.5	855.7
50°	6004.2	2584.2	932.4	909.7	996.8	975.0	951.3	903.0	851.0	845.3
52.5°	6492.7	2360.8	840.6	847.2	971.2	986.3	985.4	935.2	844.4	836.8
55°	7037.9	2112.8	771.5	796.1	960.8	1007.2	993.9	965.5	850.0	838.7
57.5°	7574.6	1823.1	723.2	757.3	945.6	1005.3	953.2	912.5	863.3	847.2
60°	7976.9	1434.1	686.3	723.2	912.5	974.0	908.7	854.8	860.5	848.1
62.5°	8003.4	1108.5	641.8	693.9	862.3	942.8	879.4	829.2	872.8	861.4
65°	7533.0	837.7	599.2	658.8	808.4	922.9	851.0	815.0	898.3	886.0
67.5°	6342.2	674.0	563.2	622.9	754.4	881.3	825.4	801.8	921.0	899.3
70°	4578.7	574.6	528.2	579.3	706.2	833.9	802.7	778.1	859.5	825.4
72.5°	2818.9	497.9	488.4	521.6	669.2	784.7	768.6	733.6	774.3	746.9
75°	1407.6	431.6	444.0	464.8	617.2	728.9	711.8	676.8	682.5	676.8
77.5°	674.0	369.2	391.9	408.0	550.0	665.5	647.5	611.5	604.9	605.8
80°	426.9	308.6	330.4	341.7	491.3	591.6	573.6	537.7	613.4	568.9
82.5°	266.9	250.8	256.5	277.4	427.9	514.9	491.3	459.1	552.8	437.3
85°	147.7	175.1	182.7	200.7	329.4	430.7	407.0	366.3	328.5	322.8
87.5°	88.0	104.1	107.0	120.2	221.5	311.4	275.5	261.3	216.8	215.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)