

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: P192251

Luminaire Tested: **GLEON-AF-03-LED-E1-T3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192251  
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-03-LED-E1-T3-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18176 lumens  
Efficiency: N/A  
Efficacy: 109.5 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): 166  
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

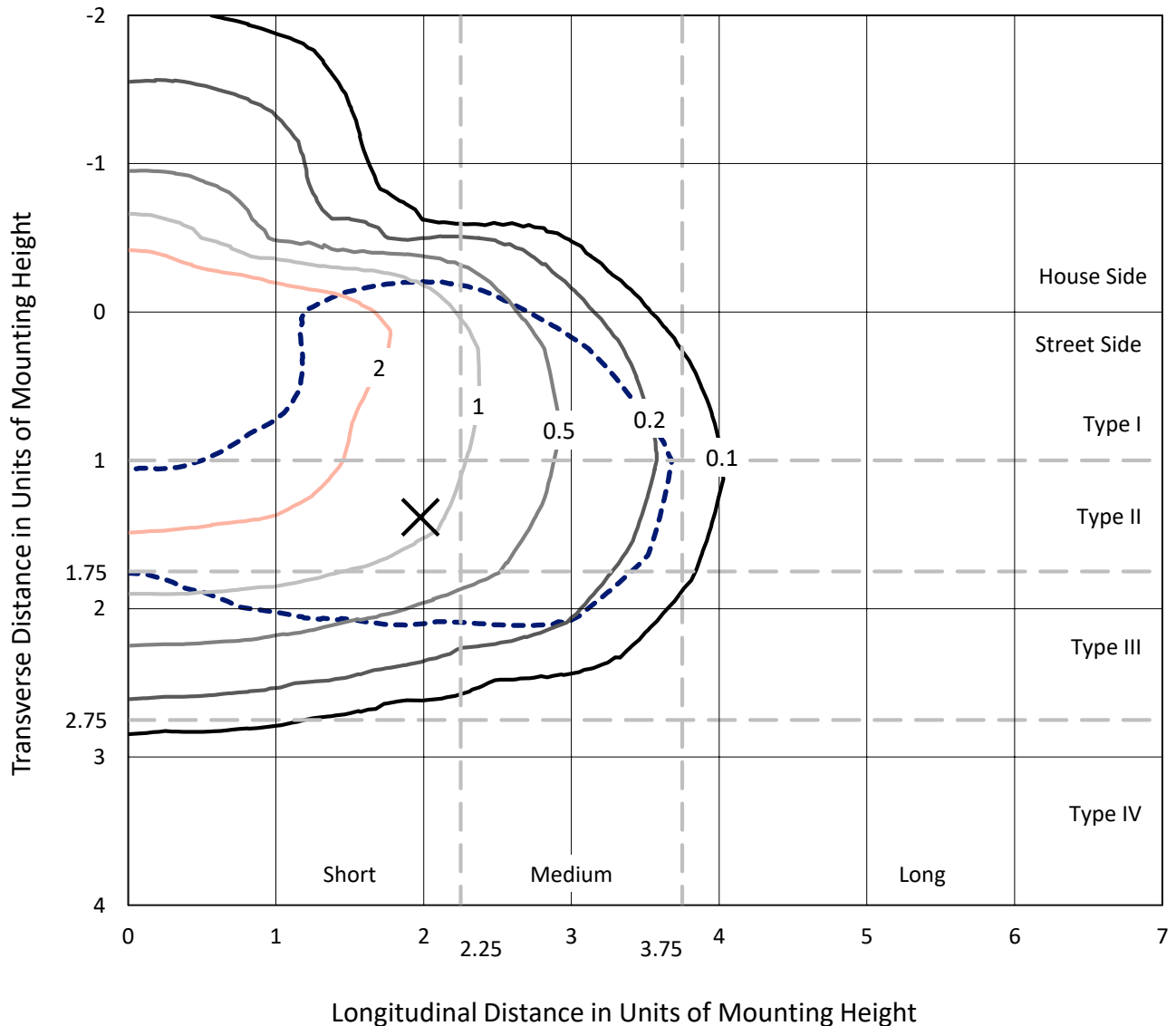


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

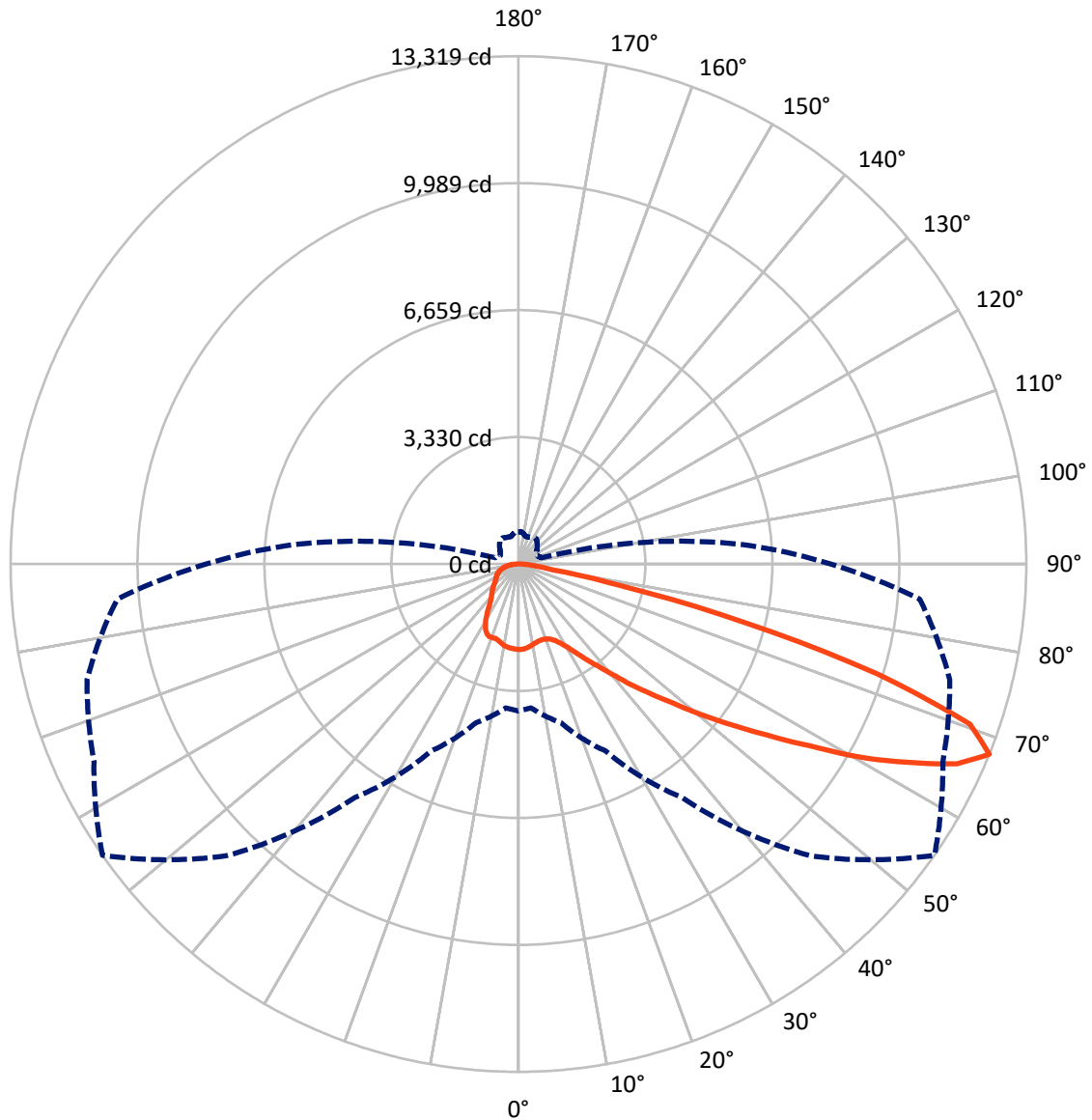


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - Full Cutoff

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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	3926.4	0.0	3926.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	14249.6	0.0	14249.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	18176.0	0.0	18176.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	1.2
10°-20°	592.5	3.3
20°-30°	992.5	5.5
30°-40°	1632.1	9.0
40°-50°	2747.3	15.1
50°-60°	4324.1	23.8
60°-70°	5160.3	28.4
70°-80°	2215.9	12.2
80°-90°	302.1	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°	18176.0	100.0
0°-180°	18176.0	100.0



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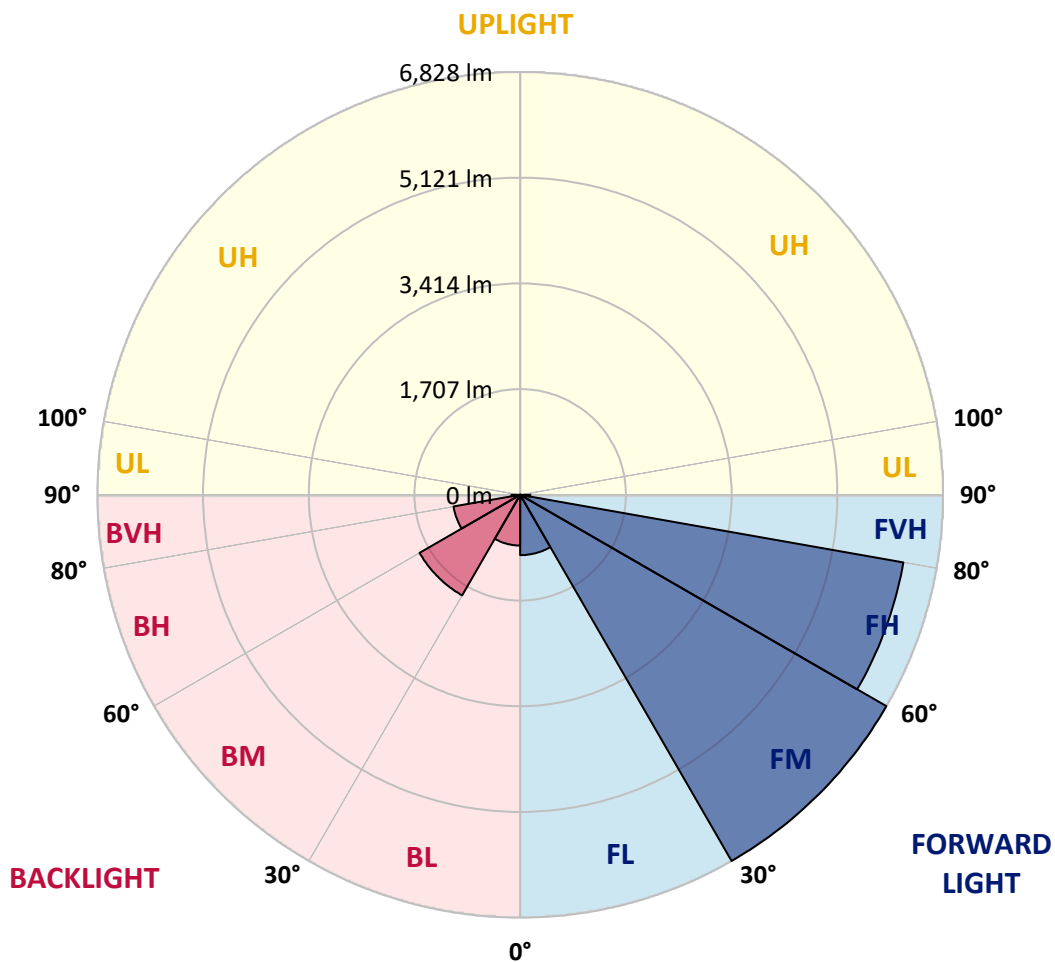
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	974.3	5.4			
FM	(30°-60°)	6828.2	37.6			
FH	(60°-80°)	6283.5	34.6			G3/7500
FVH	(80°-90°)	163.5	0.9			G2/225
BL	(0°-30°)	819.9	4.5	B2/1000		
BM	(30°-60°)	1875.2	10.3	B2/2500		
BH	(60°-80°)	1092.7	6.0	B3/2500		G3/2500
BVH	(80°-90°)	138.6	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°	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3
2.5°	2222.0	2222.9	2224.6	2231.6	2237.8	2236.0	2236.9	2233.4	2232.5	2227.3	2232.5
5°	2193.9	2196.5	2197.4	2208.8	2215.8	2217.6	2215.0	2210.6	2205.3	2200.0	2202.7
7.5°	2129.8	2136.8	2137.7	2153.5	2164.9	2179.8	2180.7	2181.6	2179.0	2175.5	2180.7
10°	2089.4	2091.2	2090.3	2101.7	2110.5	2127.2	2136.8	2153.5	2160.5	2162.3	2165.8
12.5°	2086.8	2085.0	2082.4	2082.4	2079.8	2086.8	2104.3	2128.0	2144.7	2150.0	2154.4
15°	2114.9	2114.0	2105.2	2092.1	2075.4	2070.1	2085.0	2111.4	2133.3	2144.7	2149.1
17.5°	2178.1	2172.8	2158.8	2128.9	2092.9	2078.9	2080.6	2102.6	2128.0	2143.0	2147.4
20°	2294.0	2294.0	2264.1	2207.9	2143.9	2110.5	2094.7	2107.9	2132.4	2152.6	2158.8
22.5°	2494.1	2495.9	2445.9	2353.7	2245.7	2174.6	2135.1	2132.4	2161.4	2184.2	2191.3
25°	2777.7	2770.7	2700.4	2568.8	2404.6	2287.0	2218.5	2202.7	2227.3	2252.7	2261.5
27.5°	3107.8	3082.3	2998.9	2840.0	2627.6	2455.5	2350.2	2324.7	2348.4	2377.4	2386.2
30°	3434.4	3408.0	3308.8	3135.0	2898.9	2681.1	2530.1	2488.9	2522.2	2563.5	2568.8
32.5°	3761.0	3761.0	3650.3	3447.5	3190.3	2950.6	2769.8	2720.6	2775.9	2826.0	2837.4
35°	4151.6	4153.4	4046.3	3802.2	3525.7	3272.0	3072.7	3036.7	3120.1	3155.2	3182.4
37.5°	4631.8	4641.5	4503.7	4208.7	3905.8	3638.9	3401.9	3352.7	3436.1	3531.8	3619.6
40°	5150.7	5163.0	5011.1	4647.6	4344.8	4065.6	3809.2	3720.6	3859.3	4041.9	4155.1
42.5°	5645.8	5709.0	5562.4	5188.4	4862.7	4573.9	4314.0	4185.0	4358.8	4634.5	4732.8
45°	6361.3	6407.0	6151.5	5812.6	5506.2	5183.2	4839.0	4703.0	4946.1	5293.8	5314.0
47.5°	6838.0	6803.8	6673.9	6463.2	6269.1	5967.1	5449.2	5299.9	5623.0	6032.1	5918.9
50°	7091.7	7102.3	7084.7	7097.0	7104.0	6914.4	6197.2	5992.6	6378.0	6872.3	6611.5
52.5°	7328.8	7258.5	7316.5	7604.4	7952.1	7881.9	7011.0	6797.6	7187.4	7804.6	7343.7
55°	7323.5	7216.4	7405.2	7913.5	8667.6	8748.4	7924.9	7679.1	8043.4	8804.5	8119.8
57.5°	7064.5	7069.8	7360.4	8025.8	9166.2	9563.1	8985.4	8616.7	8951.2	9817.6	8828.2
60°	6708.1	6756.4	7175.1	8007.4	9565.7	10231.1	10286.4	9627.1	9840.5	10738.6	9414.7
62.5°	6133.1	6184.0	6761.6	7816.0	9505.1	10874.6	11462.8	10773.7	10770.2	11296.9	9586.8
65°	5226.2	5211.3	5817.9	7100.5	8996.8	11350.5	12631.3	11764.8	11470.7	11305.7	9240.9
67.5°	3854.0	3787.3	4307.9	5407.9	7478.0	10817.6	13318.7	12281.1	11709.5	10562.1	8183.9
70°	1999.9	1933.2	2354.5	3157.8	4918.0	8442.8	12557.6	12014.2	11181.9	8853.7	6411.4
72.5°	855.1	843.7	1014.9	1385.3	2379.1	4869.8	9846.6	10398.8	9594.7	6596.6	4408.0
75°	575.0	571.5	635.6	755.0	1070.2	1976.2	6162.0	7381.5	7019.8	4090.2	2479.2
77.5°	451.2	446.9	484.6	542.5	693.5	779.6	2734.7	3962.9	3667.9	1780.4	1085.1
80°	352.9	349.4	373.1	404.7	498.7	491.6	899.9	1576.7	1220.3	682.1	527.6
82.5°	278.3	278.3	297.6	298.5	353.8	335.4	469.7	694.4	609.3	397.7	323.1
85°	254.6	254.6	274.8	223.0	230.9	211.6	291.5	411.7	386.3	163.3	140.5
87.5°	128.2	124.7	230.9	197.5	125.5	112.4	142.2	199.3	214.2	90.4	70.2
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°	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3	2241.3
2.5°	2230.8	2229.9	2231.6	2232.5	2239.5	2249.2	2253.6	2259.7	2263.2	2261.5
5°	2204.4	2206.2	2213.2	2218.5	2230.8	2246.6	2255.3	2262.4	2268.5	2265.9
7.5°	2182.5	2186.9	2197.4	2201.8	2208.8	2213.2	2212.3	2215.0	2220.2	2214.1
10°	2170.2	2175.5	2183.4	2177.2	2160.5	2136.8	2114.9	2103.5	2107.0	2102.6
12.5°	2157.9	2164.9	2158.8	2129.8	2083.3	2052.5	2035.9	2037.6	2045.5	2047.3
15°	2150.9	2153.5	2127.2	2072.7	2025.3	2020.9	2029.7	2028.0	2028.8	2028.8
17.5°	2150.9	2143.9	2094.7	2040.3	2020.1	2012.2	1985.0	1950.7	1935.8	1930.5
20°	2162.3	2143.9	2084.2	2048.2	2004.3	1936.7	1864.7	1801.5	1773.4	1765.5
22.5°	2196.5	2164.9	2114.0	2051.7	1927.0	1813.8	1699.6	1624.1	1573.2	1564.4
25°	2265.9	2230.8	2172.8	2005.1	1804.1	1642.6	1512.6	1428.4	1377.4	1370.4
27.5°	2387.0	2364.2	2204.4	1902.4	1640.8	1467.9	1347.6	1282.6	1244.9	1242.2
30°	2569.6	2558.2	2188.6	1750.5	1439.8	1298.4	1240.5	1202.7	1174.6	1173.8
32.5°	2861.1	2768.9	2136.8	1565.3	1256.3	1178.2	1154.4	1131.6	1109.7	1109.7
35°	3236.0	2939.2	2038.5	1366.9	1144.8	1111.4	1081.6	1045.6	1016.6	1014.9
37.5°	3676.7	3044.6	1862.0	1207.1	1092.1	1066.7	1022.8	969.2	918.3	909.5
40°	4121.8	3076.2	1613.6	1108.8	1058.8	1021.9	968.3	905.1	856.0	853.3
42.5°	4530.0	3015.6	1350.2	1041.2	1025.4	976.2	920.0	863.9	825.2	824.4
45°	4872.4	2858.5	1129.0	977.1	990.3	935.0	884.9	839.3	809.4	803.3
47.5°	5194.6	2636.4	973.6	909.5	955.2	912.1	870.0	827.0	798.0	793.6
50°	5568.6	2396.7	864.7	843.7	924.4	904.2	882.3	837.5	789.2	784.0
52.5°	6021.6	2189.5	779.6	785.7	900.7	914.8	913.9	867.4	783.1	776.1
55°	6527.2	1959.5	715.5	738.3	891.1	934.1	921.8	895.5	788.4	777.8
57.5°	7025.0	1690.9	670.7	702.3	877.0	932.3	884.1	846.3	800.7	785.7
60°	7398.1	1330.0	636.5	670.7	846.3	903.4	842.8	792.8	798.0	786.6
62.5°	7422.7	1028.0	595.2	643.5	799.8	874.4	815.6	769.0	809.4	798.9
65°	6986.4	776.9	555.7	611.0	749.7	856.0	789.2	755.9	833.1	821.7
67.5°	5882.0	625.1	522.4	577.7	699.7	817.3	765.5	743.6	854.2	834.0
70°	4246.4	532.9	489.9	537.3	654.9	773.4	744.5	721.6	797.1	765.5
72.5°	2614.4	461.8	453.0	483.7	620.7	727.8	712.9	680.4	718.1	692.7
75°	1305.4	400.3	411.7	431.1	572.4	676.0	660.2	627.7	633.0	627.7
77.5°	625.1	342.4	363.5	378.4	510.1	617.2	600.5	567.1	561.0	561.9
80°	395.9	286.2	306.4	316.9	455.6	548.7	532.0	498.7	568.9	527.6
82.5°	247.6	232.6	237.9	257.2	396.8	477.6	455.6	425.8	512.7	405.6
85°	137.0	162.4	169.4	186.1	305.5	399.4	377.5	339.8	304.6	299.4
87.5°	81.6	96.6	99.2	111.5	205.4	288.8	255.5	242.3	201.0	200.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)