

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: P269346

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269346  
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-T3-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17032.6 lumens  
Efficiency: N/A  
Efficacy: 105.1 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 (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

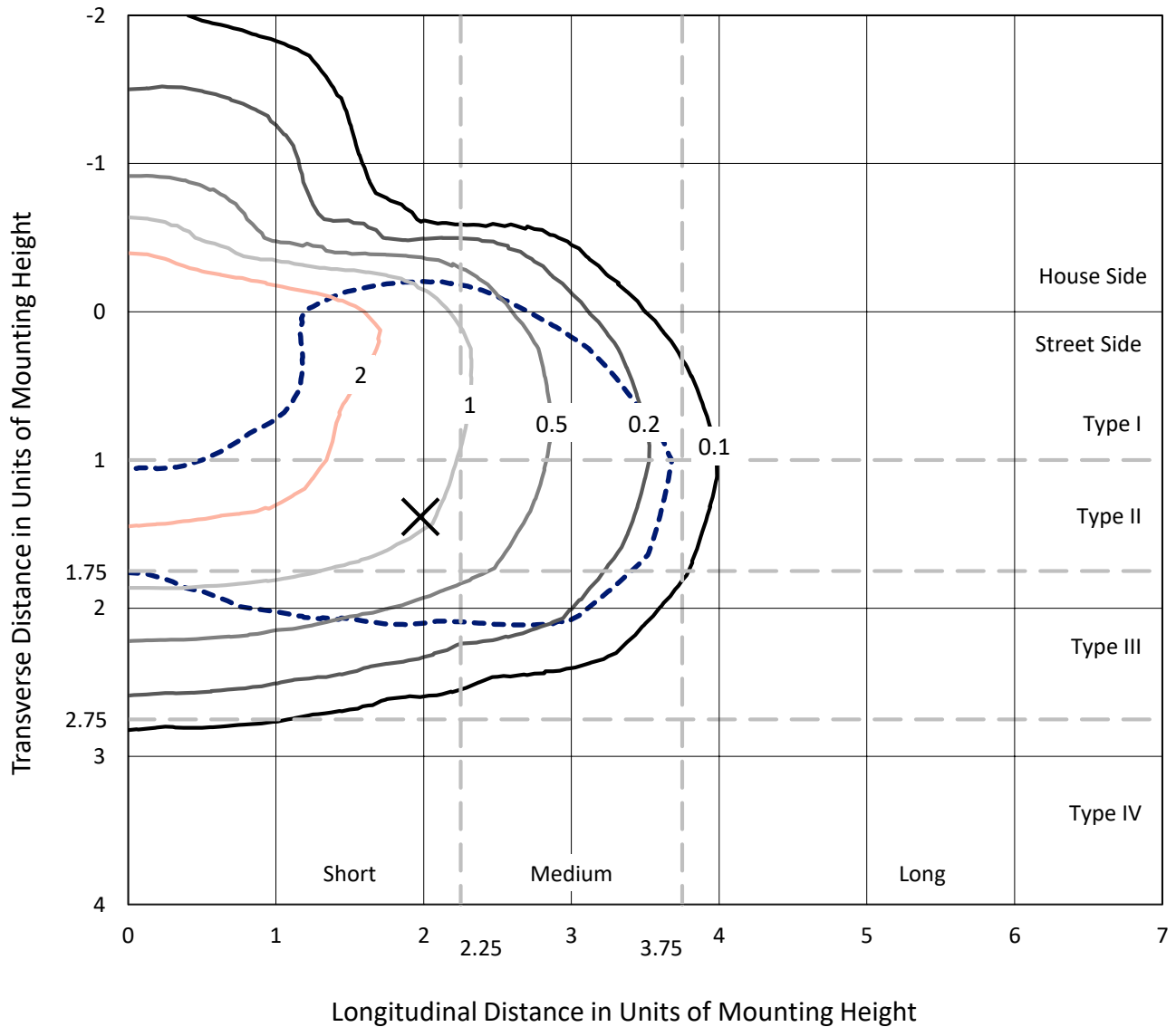


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### Iso-Footcandle Lines of Horizontal Illumination

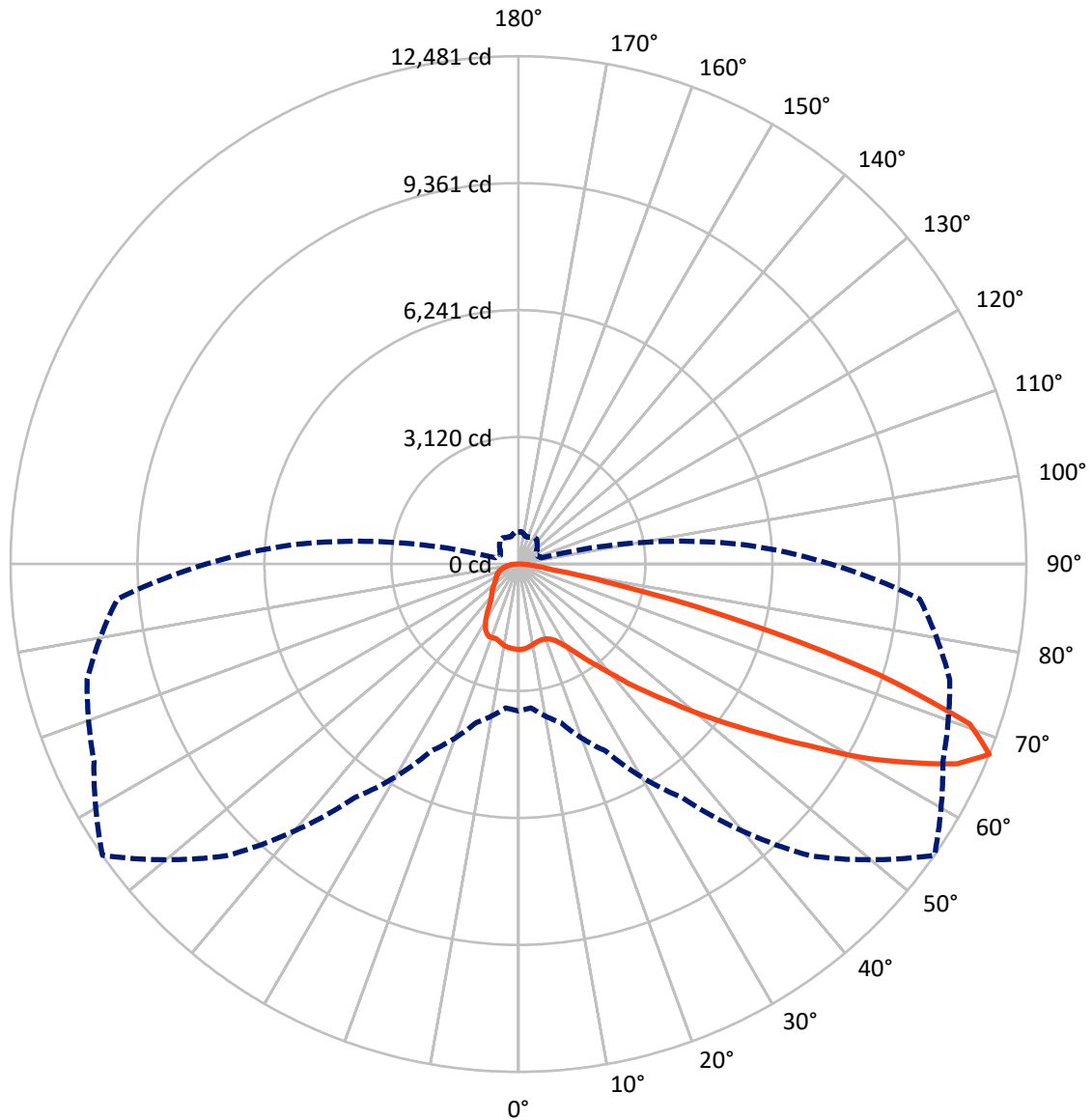
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	3679.4	0.0	3679.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	13353.2	0.0	13353.2
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	17032.6	0.0	17032.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.0	1.2
10°-20°	555.2	3.3
20°-30°	930.1	5.5
30°-40°	1529.4	9.0
40°-50°	2574.5	15.1
50°-60°	4052.1	23.8
60°-70°	4835.7	28.4
70°-80°	2076.5	12.2
80°-90°	283.1	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°	17032.6	100.0
0°-180°	17032.6	100.0



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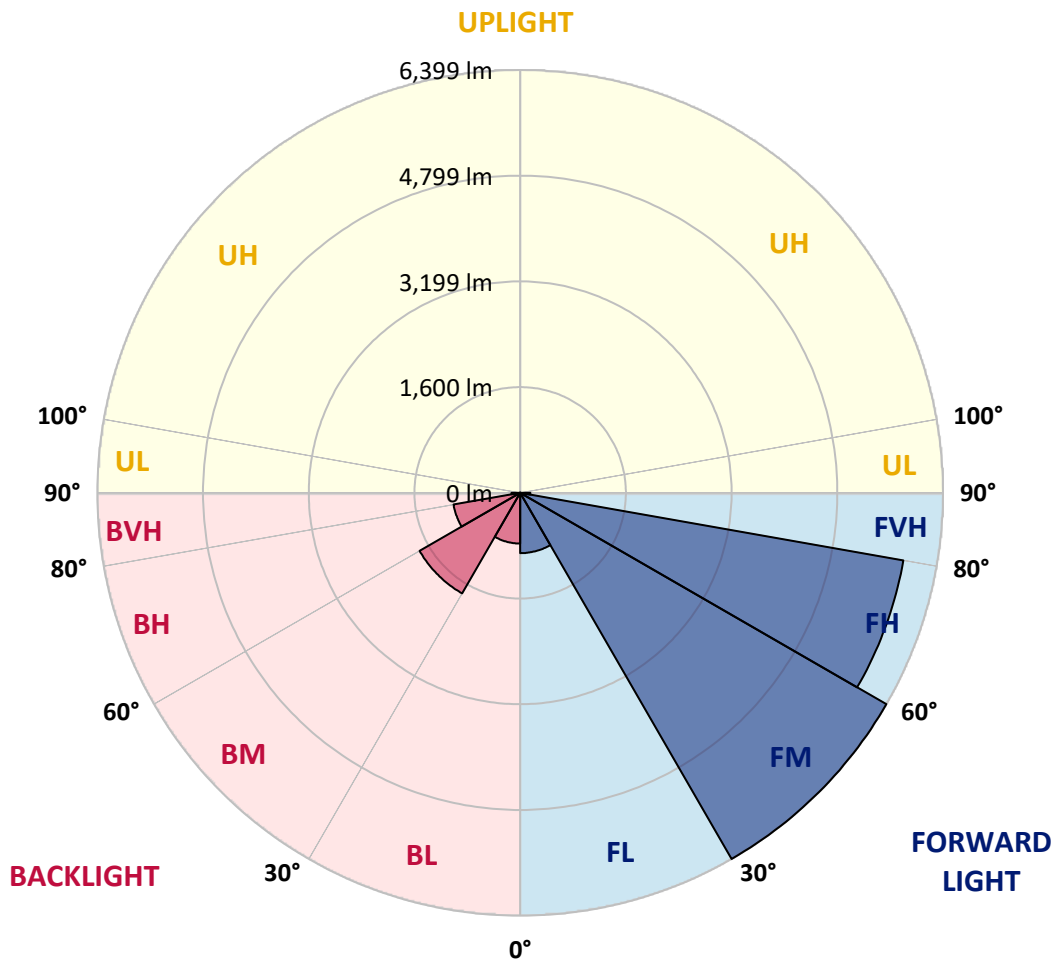
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	913.0	5.4			
FM	(30°-60°)	6398.7	37.6			
FH	(60°-80°)	5888.3	34.6			G3/7500
FVH	(80°-90°)	153.3	0.9			G2/225
BL	(0°-30°)	768.3	4.5	B2/1000		
BM	(30°-60°)	1757.2	10.3	B2/2500		
BH	(60°-80°)	1024.0	6.0	B3/2500		G3/2500
BVH	(80°-90°)	129.9	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°	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2
2.5°	2082.2	2083.0	2084.6	2091.3	2097.1	2095.3	2096.1	2093.0	2092.2	2087.1	2092.2
5°	2056.0	2058.3	2059.2	2069.9	2076.4	2078.0	2075.7	2071.5	2066.6	2061.6	2064.1
7.5°	1995.9	2002.4	2003.2	2018.0	2028.7	2042.7	2043.6	2044.4	2041.8	2038.7	2043.6
10°	1957.9	1959.7	1958.8	1969.5	1977.7	1993.3	2002.4	2018.0	2024.6	2026.2	2029.6
12.5°	1955.5	1953.9	1951.4	1951.4	1949.0	1955.5	1972.0	1994.1	2009.8	2014.8	2018.9
15°	1981.8	1981.0	1972.8	1960.5	1944.8	1939.9	1953.9	1978.5	1999.1	2009.8	2013.9
17.5°	2041.0	2036.2	2023.0	1995.0	1961.3	1948.2	1949.7	1970.3	1994.1	2008.3	2012.3
20°	2149.6	2149.6	2121.6	2069.1	2009.0	1977.7	1962.9	1975.3	1998.3	2017.2	2023.0
22.5°	2337.2	2338.8	2291.9	2205.6	2104.4	2037.7	2000.7	1998.3	2025.5	2046.9	2053.4
25°	2603.0	2596.5	2530.5	2407.2	2253.3	2143.0	2078.9	2064.1	2087.1	2110.9	2119.2
27.5°	2912.2	2888.4	2810.3	2661.4	2462.3	2301.1	2202.4	2178.5	2200.7	2227.8	2236.1
30°	3218.4	3193.7	3100.7	2937.7	2716.6	2512.5	2370.9	2332.3	2363.6	2402.2	2407.2
32.5°	3524.4	3524.4	3420.7	3230.7	2989.6	2765.1	2595.6	2549.5	2601.3	2648.3	2659.0
35°	3890.5	3892.0	3791.7	3563.0	3303.8	3066.2	2879.3	2845.7	2923.9	2956.7	2982.3
37.5°	4340.5	4349.6	4220.3	3944.0	3660.1	3410.1	3187.8	3141.8	3220.0	3309.6	3391.9
40°	4826.7	4838.2	4695.9	4355.3	4071.5	3809.8	3569.7	3486.5	3616.4	3787.7	3893.8
42.5°	5290.7	5349.9	5212.5	4862.0	4556.8	4286.2	4042.6	3921.7	4084.7	4342.9	4435.1
45°	5961.2	6003.9	5764.6	5447.1	5159.9	4857.1	4534.6	4407.2	4635.0	4960.8	4979.8
47.5°	6407.9	6375.8	6254.0	6056.6	5874.7	5591.8	5106.3	4966.5	5269.3	5652.7	5546.6
50°	6645.7	6655.5	6639.1	6650.6	6657.2	6479.5	5807.4	5615.7	5976.9	6439.9	6195.6
52.5°	6867.7	6802.0	6856.3	7126.1	7451.9	7386.0	6569.9	6370.1	6735.3	7313.6	6881.7
55°	6862.8	6762.4	6939.3	7415.7	8122.4	8198.0	7426.4	7196.1	7537.4	8250.8	7609.1
57.5°	6620.1	6625.1	6897.4	7521.0	8589.7	8961.5	8420.2	8074.7	8388.1	9200.0	8272.9
60°	6286.1	6331.3	6723.9	7503.7	8963.9	9587.5	9639.4	9021.6	9221.5	10063.1	8822.4
62.5°	5747.3	5795.0	6336.4	7324.3	8907.1	10190.6	10741.8	10096.1	10092.6	10586.3	8983.7
65°	4897.4	4883.5	5452.0	6653.8	8430.9	10636.6	11836.7	11024.8	10749.2	10594.5	8659.5
67.5°	3611.5	3549.1	4037.0	5067.7	7007.6	10137.2	12481.0	11508.5	10972.9	9897.6	7669.0
70°	1874.0	1811.5	2206.4	2959.1	4608.7	7911.7	11767.6	11258.4	10478.5	8296.7	6008.0
72.5°	801.3	790.6	951.0	1298.2	2229.5	4563.4	9227.2	9744.6	8991.0	6181.6	4130.6
75°	538.9	535.6	595.7	707.5	1002.9	1851.9	5774.5	6917.0	6578.2	3832.9	2323.2
77.5°	422.8	418.7	454.2	508.4	650.0	730.5	2562.7	3713.7	3437.2	1668.4	1016.8
80°	330.8	327.4	349.6	379.3	467.3	460.7	843.2	1477.5	1143.5	639.2	494.4
82.5°	260.8	260.8	279.0	279.7	331.6	314.2	440.1	650.7	571.0	372.6	302.8
85°	238.6	238.6	257.5	208.9	216.3	198.3	273.2	385.8	361.9	153.0	131.6
87.5°	120.2	116.8	216.3	185.1	117.7	105.3	133.3	186.8	200.7	84.7	65.8
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°	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2
2.5°	2090.4	2089.5	2091.3	2092.2	2098.7	2107.8	2111.8	2117.6	2120.9	2119.2
5°	2065.7	2067.4	2073.9	2078.9	2090.4	2105.3	2113.4	2120.1	2125.7	2123.4
7.5°	2045.3	2049.4	2059.2	2063.2	2069.9	2073.9	2073.2	2075.7	2080.6	2074.8
10°	2033.7	2038.7	2046.0	2040.2	2024.6	2002.4	1981.8	1971.2	1974.5	1970.3
12.5°	2022.2	2028.7	2023.0	1995.9	1952.2	1923.5	1907.8	1909.4	1916.9	1918.5
15°	2015.5	2018.0	1993.3	1942.3	1897.8	1893.7	1902.0	1900.5	1901.3	1901.3
17.5°	2015.5	2009.0	1962.9	1912.0	1893.0	1885.6	1860.1	1828.1	1813.9	1809.0
20°	2026.2	2009.0	1953.1	1919.3	1878.1	1814.8	1747.4	1688.2	1661.9	1654.4
22.5°	2058.3	2028.7	1981.0	1922.6	1805.9	1699.7	1592.8	1522.0	1474.3	1466.0
25°	2123.4	2090.4	2036.2	1879.1	1690.6	1539.2	1417.4	1338.6	1290.8	1284.1
27.5°	2236.9	2215.5	2065.7	1782.7	1537.5	1375.6	1262.7	1201.9	1166.5	1164.2
30°	2407.9	2397.2	2050.9	1640.5	1349.3	1216.8	1162.4	1127.1	1100.8	1100.0
32.5°	2681.1	2594.8	2002.4	1466.8	1177.3	1104.0	1081.7	1060.4	1039.9	1039.9
35°	3032.4	2754.4	1910.2	1281.0	1072.8	1041.6	1013.6	979.8	952.7	951.0
37.5°	3445.4	2853.0	1744.9	1131.1	1023.3	999.5	958.4	908.2	860.5	852.3
40°	3862.5	2882.8	1512.0	1039.1	992.2	957.7	907.4	848.2	802.1	799.6
42.5°	4245.0	2825.9	1265.4	975.6	960.8	914.8	862.2	809.6	773.4	772.5
45°	4565.8	2678.7	1057.9	915.6	927.9	876.1	829.2	786.5	758.4	752.8
47.5°	4867.8	2470.5	912.4	852.3	895.2	854.7	815.3	775.0	747.7	743.6
50°	5218.3	2245.9	810.4	790.6	866.2	847.5	826.8	784.8	739.6	734.6
52.5°	5642.8	2051.8	730.5	736.3	844.0	857.3	856.4	812.7	733.8	727.3
55°	6116.6	1836.2	670.5	691.9	835.1	875.4	863.8	839.1	738.8	728.9
57.5°	6583.0	1584.5	628.5	658.2	821.9	873.7	828.4	793.1	750.3	736.3
60°	6932.8	1246.4	596.5	628.5	793.1	846.6	789.8	742.9	747.7	737.1
62.5°	6955.8	963.3	557.8	603.0	749.5	819.4	764.3	720.7	758.4	748.6
65°	6546.8	728.0	520.7	572.6	702.6	802.1	739.6	708.4	780.7	770.0
67.5°	5512.0	585.8	489.4	541.3	655.7	766.0	717.3	696.8	800.5	781.5
70°	3979.3	499.4	459.0	503.5	613.7	724.8	697.7	676.2	747.0	717.3
72.5°	2449.9	432.8	424.4	453.4	581.7	682.1	668.0	637.5	673.0	649.0
75°	1223.3	375.1	385.8	404.0	536.4	633.5	618.7	588.2	593.2	588.2
77.5°	585.8	320.9	340.5	354.7	478.0	578.4	562.7	531.4	525.7	526.5
80°	371.0	268.2	287.1	297.0	427.0	514.2	498.6	467.3	533.1	494.4
82.5°	232.0	218.0	223.0	241.0	371.9	447.5	427.0	398.9	480.5	380.2
85°	128.4	152.3	158.8	174.5	286.3	374.4	353.8	318.4	285.5	280.5
87.5°	76.5	90.5	93.0	104.6	192.4	270.7	239.4	227.0	188.4	187.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)