

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: P190811

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19528.1 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

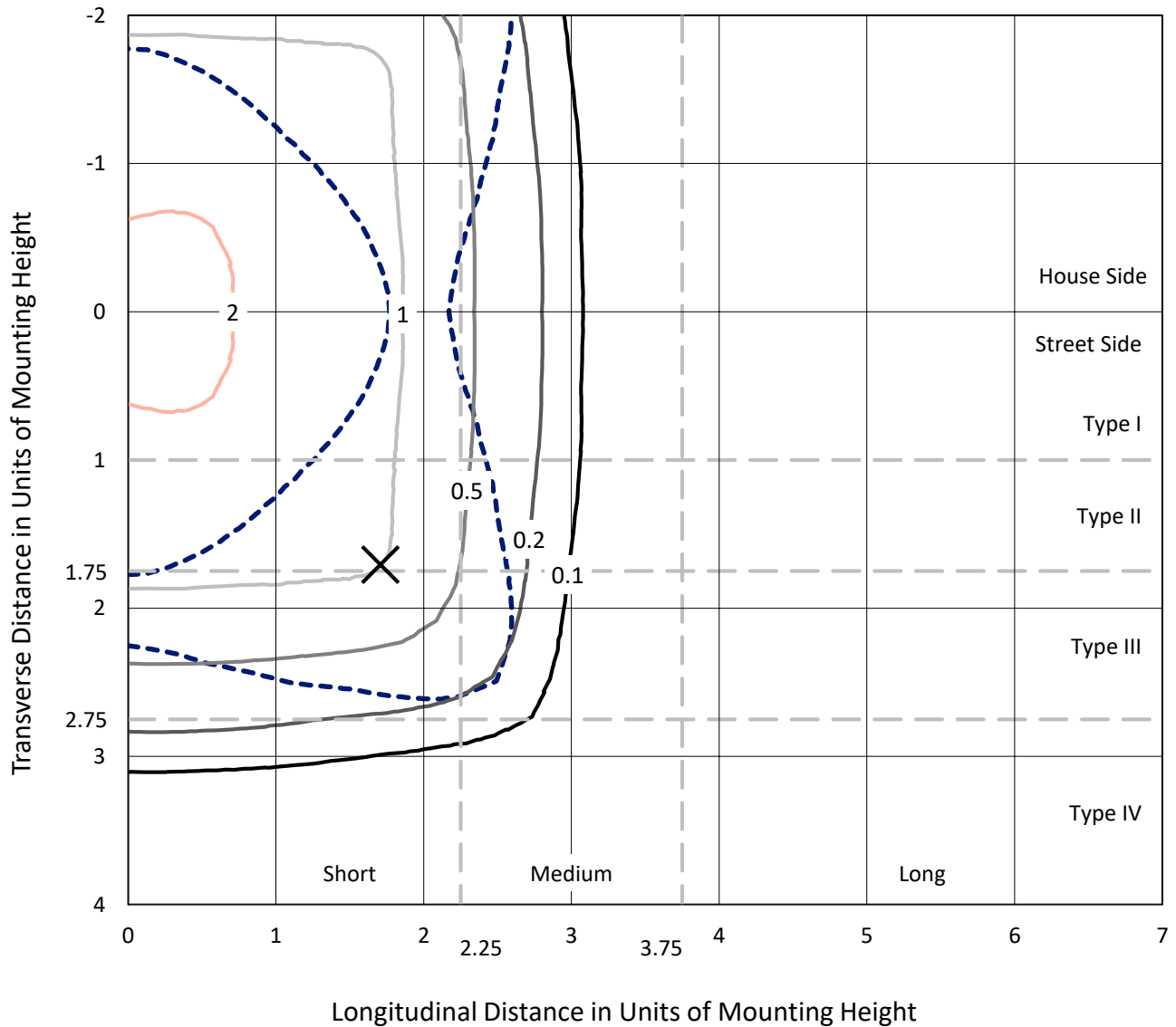
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

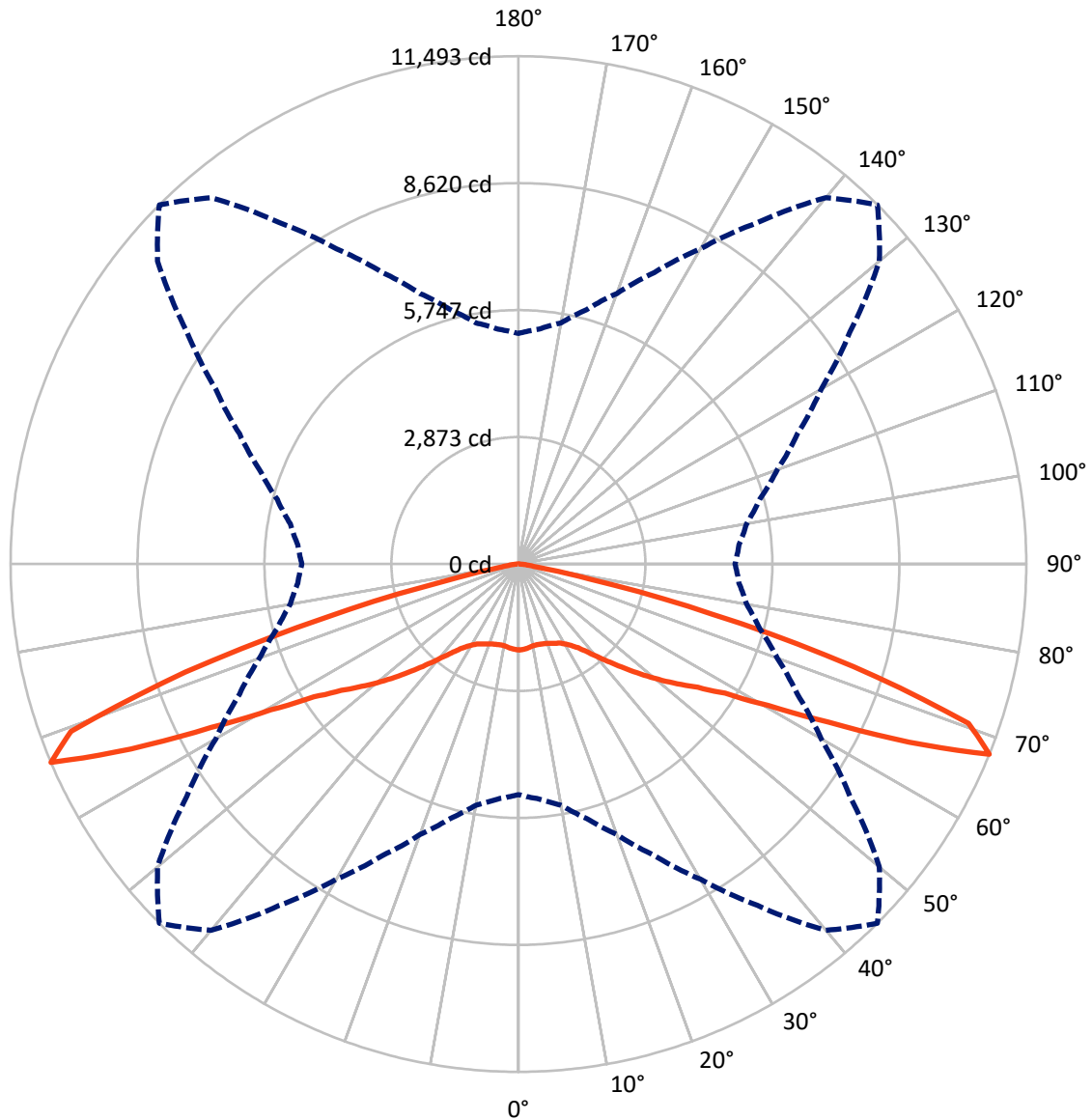
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9764.1	0.0	9764.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9764.1	0.0	9764.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19528.1	0.0	19528.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.1	0.9
10°-20°	528.5	2.7
20°-30°	898.5	4.6
30°-40°	1468.8	7.5
40°-50°	2622.1	13.4
50°-60°	4420.9	22.6
60°-70°	6860.5	35.1
70°-80°	2410.5	12.3
80°-90°	136.2	0.7
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°	19528.1	100.0
0°-180°	19528.1	100.0



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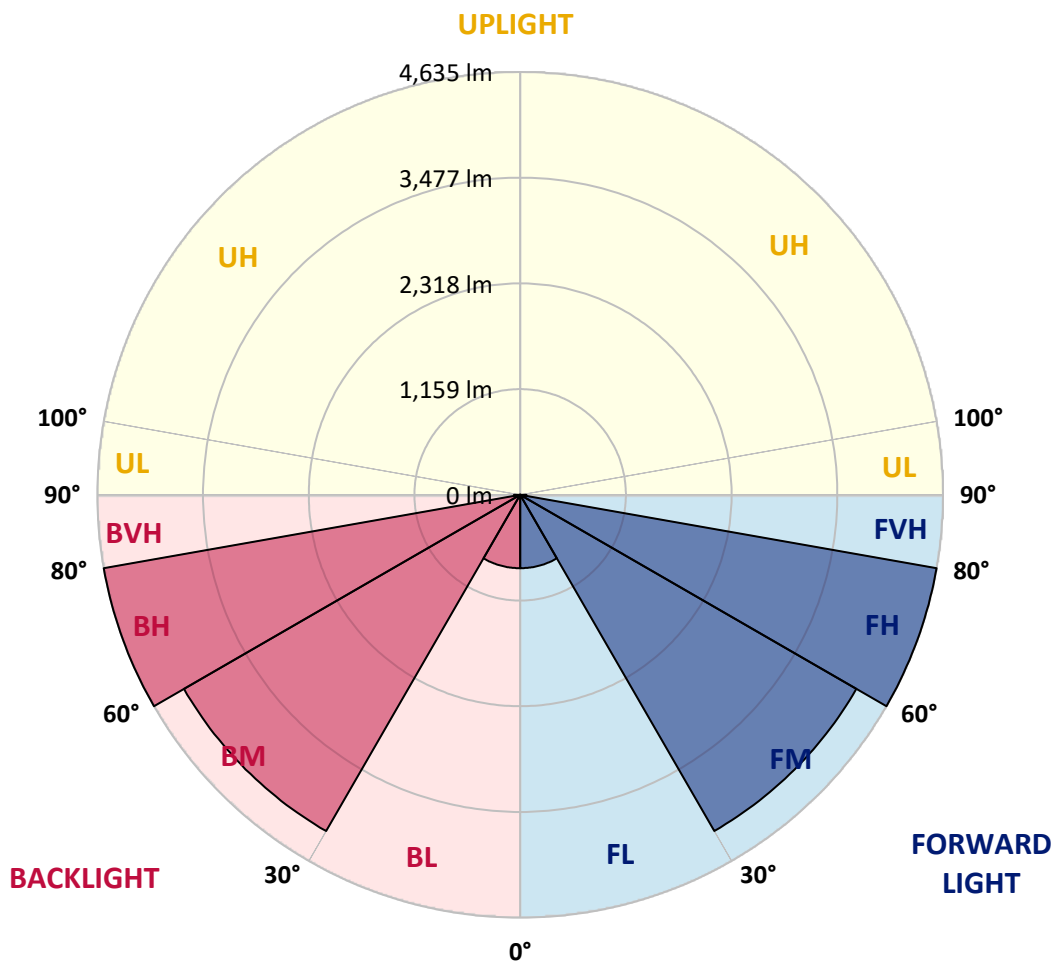
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	804.6	4.1			
FM	(30°-60°)	4255.9	21.8			
FH	(60°-80°)	4635.5	23.7			G2/5000
FVH	(80°-90°)	68.1	0.3			G1/100
BL	(0°-30°)	804.6	4.1	B2/1000		
BM	(30°-60°)	4255.9	21.8	B3/5000		
BH	(60°-80°)	4635.5	23.7	B4/5000		G2/5000
BVH	(80°-90°)	68.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1
2.5°	1938.9	1940.6	1940.6	1940.6	1939.8	1939.8	1938.0	1939.8	1938.9	1936.1	1937.1
5°	1922.7	1924.5	1924.5	1923.7	1926.3	1925.4	1922.7	1924.5	1923.7	1921.8	1922.7
7.5°	1899.3	1902.1	1902.1	1901.2	1903.8	1903.0	1901.2	1902.1	1902.1	1899.3	1899.3
10°	1873.3	1875.1	1875.1	1874.3	1878.8	1878.8	1877.8	1880.5	1881.4	1878.8	1876.9
12.5°	1849.1	1851.7	1851.7	1855.3	1859.8	1861.7	1866.2	1869.7	1873.3	1872.4	1868.8
15°	1834.7	1836.5	1840.1	1844.6	1851.7	1858.1	1865.2	1873.3	1880.5	1882.3	1876.9
17.5°	1825.8	1828.4	1833.8	1840.1	1850.0	1860.7	1871.5	1882.3	1892.2	1895.7	1889.5
20°	1823.0	1824.8	1830.3	1841.0	1854.5	1870.7	1885.9	1898.5	1911.9	1916.4	1911.9
22.5°	1828.4	1832.0	1838.3	1850.8	1868.8	1889.5	1907.4	1924.5	1941.6	1949.6	1943.4
25°	1852.7	1856.2	1864.3	1880.5	1900.2	1921.8	1942.5	1962.2	1977.5	1985.5	1981.0
27.5°	1897.6	1902.1	1911.9	1928.1	1949.6	1973.0	1995.5	2011.6	2024.2	2026.9	2021.5
30°	1964.9	1974.8	1986.5	2004.5	2029.5	2049.4	2071.8	2086.2	2101.4	2101.4	2096.9
32.5°	2069.9	2079.9	2092.4	2109.5	2129.3	2150.9	2170.6	2183.2	2199.3	2200.2	2189.4
35°	2227.2	2231.7	2242.4	2253.2	2271.2	2290.0	2307.1	2315.1	2328.6	2329.6	2319.6
37.5°	2434.6	2435.5	2442.7	2446.3	2462.4	2483.1	2499.3	2504.6	2517.2	2515.4	2505.5
40°	2676.1	2680.6	2683.4	2688.7	2705.8	2725.6	2742.6	2745.3	2758.8	2756.1	2743.6
42.5°	2955.5	2957.2	2972.5	2980.6	2996.7	3006.7	3028.2	3030.9	3047.1	3039.9	3025.5
45°	3268.8	3285.0	3299.4	3315.6	3332.7	3344.3	3361.4	3357.8	3368.6	3357.8	3349.7
47.5°	3598.4	3610.1	3642.4	3667.6	3695.4	3705.3	3729.6	3718.8	3729.6	3714.3	3711.6
50°	3961.3	3981.9	4009.8	4038.5	4068.2	4084.3	4115.7	4102.2	4116.7	4102.2	4094.2
52.5°	4318.7	4324.1	4385.2	4427.3	4468.7	4487.5	4506.4	4500.1	4501.0	4500.1	4492.0
55°	4658.1	4670.7	4731.8	4789.3	4861.1	4914.1	4946.4	4942.8	4934.7	4926.6	4913.2
57.5°	5040.7	5053.3	5123.3	5194.2	5276.0	5351.5	5417.0	5484.3	5510.4	5517.6	5487.9
60°	5558.0	5557.1	5650.5	5736.7	5853.4	5965.7	6109.4	6255.8	6423.7	6501.9	6398.6
62.5°	6084.2	6105.8	6240.5	6393.1	6633.8	6868.2	7133.1	7393.6	7659.4	7875.8	7645.9
65°	6021.4	6104.0	6304.2	6650.0	7094.6	7622.6	8193.7	8798.1	9344.1	9719.6	9298.3
67.5°	5218.5	5336.2	5540.0	5960.3	6516.2	7277.8	8236.9	9432.1	10821.4	11493.2	10660.7
70°	3782.6	3915.4	4129.2	4539.7	5090.1	5813.9	6855.7	8290.7	10130.0	10807.1	9890.2
72.5°	1882.3	1954.1	2086.2	2347.5	2764.2	3351.5	4296.3	5675.6	7302.8	7924.3	7086.5
75°	639.4	672.6	695.1	780.4	912.4	1143.2	1612.9	2481.3	3785.2	4537.8	3731.4
77.5°	369.1	370.0	385.2	400.5	423.0	448.2	511.0	670.9	1160.2	1647.9	1200.6
80°	238.9	237.9	250.5	262.2	277.5	290.1	293.7	310.8	358.3	424.7	379.8
82.5°	123.9	139.2	167.0	182.3	211.0	216.5	209.2	203.0	214.6	222.7	228.1
85°	68.2	59.2	88.9	115.0	127.6	129.3	129.3	122.1	126.6	123.9	134.7
87.5°	31.4	28.7	35.0	56.6	60.1	51.1	53.9	47.6	34.2	33.2	37.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1	1946.1
2.5°	1937.1	1938.0	1938.0	1940.6	1941.6	1943.4	1945.1	1946.1
5°	1921.8	1924.5	1922.7	1925.4	1925.4	1927.2	1927.2	1928.1
7.5°	1899.3	1902.1	1902.1	1902.1	1901.2	1903.8	1903.8	1903.8
10°	1876.0	1877.8	1876.9	1875.1	1873.3	1876.0	1875.1	1874.3
12.5°	1868.8	1864.3	1860.7	1858.9	1855.3	1856.2	1853.6	1853.6
15°	1873.3	1865.2	1858.9	1856.2	1852.7	1850.8	1849.1	1850.0
17.5°	1885.0	1875.1	1867.0	1862.6	1858.1	1855.3	1851.7	1852.7
20°	1905.7	1894.0	1882.3	1873.3	1865.2	1860.7	1858.1	1857.2
22.5°	1936.1	1919.2	1902.1	1888.6	1877.8	1871.5	1868.8	1867.0
25°	1971.2	1952.3	1932.6	1917.3	1906.6	1898.5	1893.1	1893.1
27.5°	2015.2	2000.0	1982.0	1964.1	1954.1	1946.1	1942.5	1940.6
30°	2088.9	2074.4	2060.1	2043.0	2030.5	2022.4	2016.1	2010.7
32.5°	2183.2	2171.5	2159.8	2147.2	2135.5	2124.8	2114.8	2110.4
35°	2316.1	2307.1	2299.0	2284.7	2280.2	2273.8	2268.5	2264.0
37.5°	2499.3	2495.7	2495.7	2480.3	2476.8	2474.1	2468.7	2469.6
40°	2740.0	2743.6	2739.1	2733.6	2731.0	2723.8	2723.8	2730.1
42.5°	3024.7	3027.3	3037.1	3028.2	3038.1	3029.1	3023.7	3028.2
45°	3355.1	3365.0	3384.7	3375.7	3382.1	3366.7	3347.9	3348.8
47.5°	3726.0	3735.0	3743.1	3736.7	3737.7	3712.5	3687.3	3681.1
50°	4111.2	4114.8	4119.3	4110.3	4112.2	4084.3	4055.6	4056.5
52.5°	4492.0	4509.1	4527.1	4502.8	4497.4	4466.0	4425.6	4409.4
55°	4927.6	4951.8	4931.1	4889.0	4846.7	4804.5	4751.5	4742.6
57.5°	5464.6	5423.3	5358.6	5278.7	5220.3	5161.1	5107.2	5084.7
60°	6211.8	6056.4	5939.7	5821.1	5746.6	5673.8	5602.9	5592.2
62.5°	7267.9	6999.3	6766.7	6521.6	6321.3	6165.1	6040.2	6005.2
65°	8591.6	7956.7	7406.2	6892.4	6446.1	6109.4	5897.4	5804.0
67.5°	9160.9	7907.3	6963.4	6234.2	5650.5	5242.8	5013.8	4899.7
70°	8050.1	6557.5	5531.1	4800.9	4269.3	3834.6	3627.2	3505.0
72.5°	5538.3	4171.4	3298.5	2692.3	2267.6	1903.8	1760.2	1749.3
75°	2486.7	1647.1	1135.2	874.7	736.4	640.3	610.7	588.2
77.5°	696.0	514.5	458.9	429.2	400.5	367.3	354.8	357.4
80°	338.6	319.7	307.1	288.3	262.2	234.4	221.8	227.2
82.5°	224.5	221.8	229.9	216.5	178.7	151.8	127.6	116.7
85°	136.5	138.3	141.0	141.9	120.3	84.4	57.5	64.7
87.5°	53.9	62.0	67.3	70.1	65.6	40.4	32.3	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)