

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: P191611

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191611  
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-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 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: 19090 lumens  
Efficiency: N/A  
Efficacy: 115.0 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

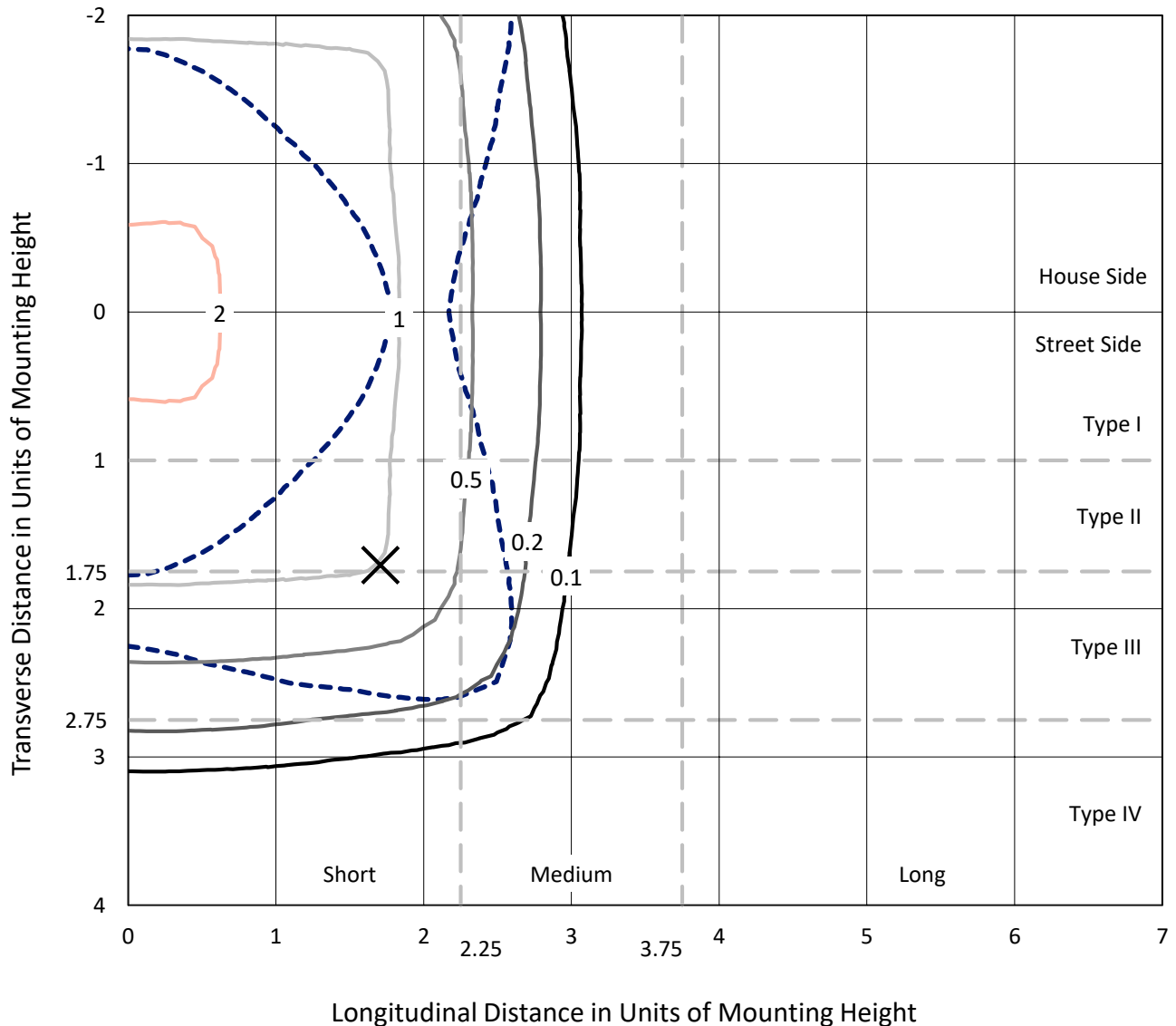
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

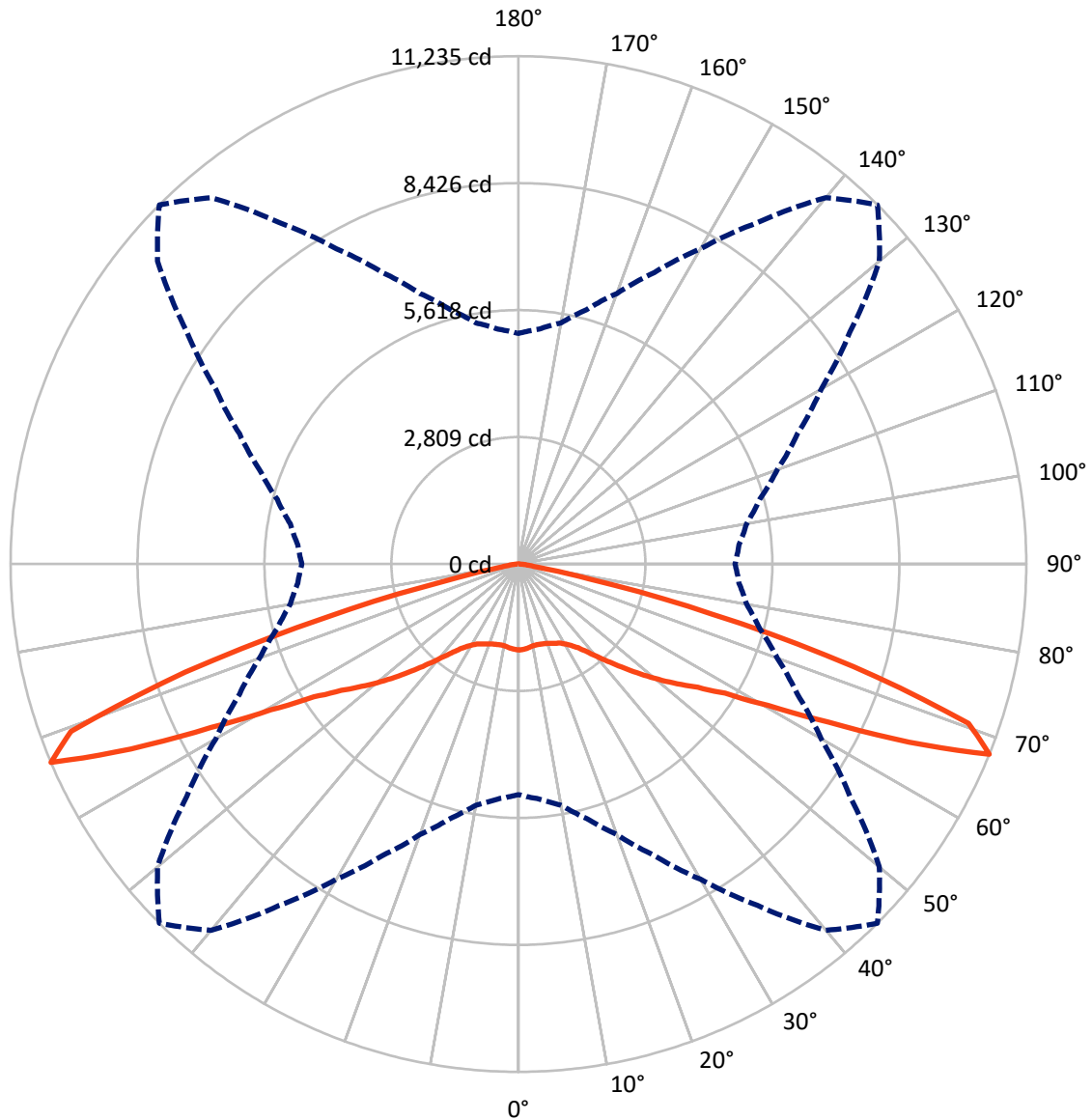
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	9545.0	0.0	9545.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9545.0	0.0	9545.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19090.0	0.0	19090.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.1	0.9
10°-20°	516.7	2.7
20°-30°	878.4	4.6
30°-40°	1435.8	7.5
40°-50°	2563.2	13.4
50°-60°	4321.7	22.6
60°-70°	6706.6	35.1
70°-80°	2356.4	12.3
80°-90°	133.2	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°	19090.0	100.0
0°-180°	19090.0	100.0



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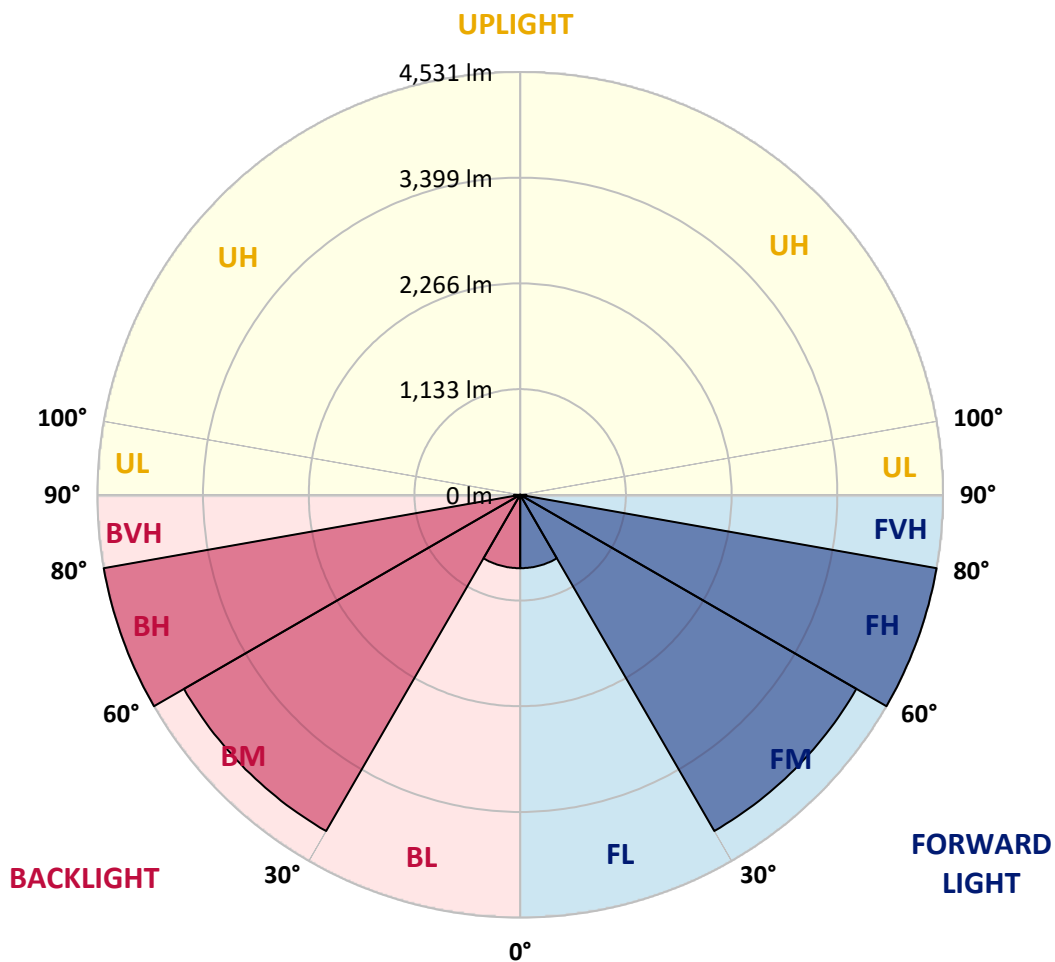
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	786.5	4.1			
FM	(30°-60°)	4160.4	21.8			
FH	(60°-80°)	4531.5	23.7			G2/5000
FVH	(80°-90°)	66.6	0.3			G1/100
BL	(0°-30°)	786.5	4.1	B2/1000		
BM	(30°-60°)	4160.4	21.8	B3/5000		
BH	(60°-80°)	4531.5	23.7	B4/5000		G2/5000
BVH	(80°-90°)	66.6	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°	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4
2.5°	1895.4	1897.1	1897.1	1897.1	1896.3	1896.3	1894.5	1896.3	1895.4	1892.7	1893.6
5°	1879.6	1881.3	1881.3	1880.5	1883.1	1882.2	1879.6	1881.3	1880.5	1878.7	1879.6
7.5°	1856.7	1859.4	1859.4	1858.5	1861.1	1860.3	1858.5	1859.4	1859.4	1856.7	1856.7
10°	1831.3	1833.0	1833.0	1832.2	1836.6	1836.6	1835.7	1838.3	1839.2	1836.6	1834.8
12.5°	1807.6	1810.2	1810.2	1813.7	1818.1	1819.9	1824.3	1827.8	1831.3	1830.4	1826.9
15°	1793.5	1795.3	1798.8	1803.2	1810.2	1816.4	1823.4	1831.3	1838.3	1840.1	1834.8
17.5°	1784.8	1787.4	1792.7	1798.8	1808.5	1819.0	1829.5	1840.1	1849.7	1853.2	1847.1
20°	1782.1	1783.9	1789.2	1799.7	1812.9	1828.7	1843.6	1855.9	1869.0	1873.4	1869.0
22.5°	1787.4	1790.9	1797.1	1809.3	1826.9	1847.1	1864.6	1881.3	1898.0	1905.9	1899.8
25°	1811.1	1814.6	1822.5	1838.3	1857.6	1878.7	1898.9	1918.2	1933.1	1941.0	1936.6
27.5°	1855.0	1859.4	1869.0	1884.8	1905.9	1928.7	1950.7	1966.5	1978.8	1981.4	1976.1
30°	1920.8	1930.5	1941.9	1959.5	1984.0	2003.4	2025.3	2039.4	2054.3	2054.3	2049.9
32.5°	2023.5	2033.2	2045.5	2062.2	2081.5	2102.6	2121.9	2134.2	2150.0	2150.8	2140.3
35°	2177.2	2181.6	2192.1	2202.6	2220.2	2238.6	2255.3	2263.2	2276.4	2277.3	2267.6
37.5°	2380.0	2380.9	2387.9	2391.4	2407.2	2427.4	2443.2	2448.4	2460.7	2459.0	2449.3
40°	2616.1	2620.5	2623.2	2628.4	2645.1	2664.4	2681.1	2683.7	2696.9	2694.3	2682.0
42.5°	2889.2	2890.9	2905.8	2913.7	2929.5	2939.2	2960.3	2962.9	2978.7	2971.7	2957.6
45°	3195.5	3211.3	3225.4	3241.2	3257.9	3269.3	3286.0	3282.5	3293.0	3282.5	3274.5
47.5°	3517.7	3529.1	3560.7	3585.3	3612.5	3622.2	3645.9	3635.4	3645.9	3631.0	3628.3
50°	3872.4	3892.6	3919.8	3947.9	3976.9	3992.7	4023.4	4010.2	4024.3	4010.2	4002.3
52.5°	4221.8	4227.1	4286.8	4328.0	4368.4	4386.8	4405.3	4399.1	4400.0	4399.1	4391.2
55°	4553.6	4565.9	4625.6	4681.8	4752.0	4803.8	4835.4	4831.9	4824.0	4816.1	4803.0
57.5°	4927.6	4939.9	5008.4	5077.7	5157.6	5231.4	5295.5	5361.3	5386.8	5393.8	5364.8
60°	5433.3	5432.4	5523.7	5608.0	5722.1	5831.9	5972.3	6115.4	6279.6	6356.0	6255.0
62.5°	5947.7	5968.8	6100.5	6249.7	6485.0	6714.1	6973.1	7227.7	7487.6	7699.1	7474.4
65°	5886.3	5967.1	6162.8	6500.8	6935.4	7451.6	8009.9	8600.7	9134.5	9501.5	9089.7
67.5°	5101.4	5216.5	5415.7	5826.6	6370.0	7114.5	8052.1	9220.5	10578.6	11235.3	10421.5
70°	3697.7	3827.6	4036.6	4437.8	4975.9	5683.5	6701.9	8104.7	9902.7	10564.6	9668.3
72.5°	1840.1	1910.3	2039.4	2294.8	2702.2	3276.3	4199.9	5548.3	7139.0	7746.5	6927.5
75°	625.1	657.5	679.5	762.9	891.9	1117.6	1576.7	2425.6	3700.3	4436.0	3647.7
77.5°	360.8	361.7	376.6	391.5	413.5	438.1	499.5	655.8	1134.2	1610.9	1173.7
80°	233.5	232.6	244.9	256.3	271.3	283.6	287.1	303.8	350.3	415.2	371.3
82.5°	121.1	136.1	163.3	178.2	206.3	211.6	204.5	198.4	209.8	217.7	223.0
85°	66.7	57.9	86.9	112.4	124.7	126.4	126.4	119.4	123.8	121.1	131.7
87.5°	30.7	28.1	34.2	55.3	58.8	50.0	52.7	46.5	33.4	32.5	36.9
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°	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4
2.5°	1893.6	1894.5	1894.5	1897.1	1898.0	1899.8	1901.5	1902.4
5°	1878.7	1881.3	1879.6	1882.2	1882.2	1884.0	1884.0	1884.8
7.5°	1856.7	1859.4	1859.4	1859.4	1858.5	1861.1	1861.1	1861.1
10°	1833.9	1835.7	1834.8	1833.0	1831.3	1833.9	1833.0	1832.2
12.5°	1826.9	1822.5	1819.0	1817.2	1813.7	1814.6	1812.0	1812.0
15°	1831.3	1823.4	1817.2	1814.6	1811.1	1809.3	1807.6	1808.5
17.5°	1842.7	1833.0	1825.1	1820.8	1816.4	1813.7	1810.2	1811.1
20°	1862.9	1851.5	1840.1	1831.3	1823.4	1819.0	1816.4	1815.5
22.5°	1892.7	1876.1	1859.4	1846.2	1835.7	1829.5	1826.9	1825.1
25°	1927.0	1908.5	1889.2	1874.3	1863.8	1855.9	1850.6	1850.6
27.5°	1970.0	1955.1	1937.5	1920.0	1910.3	1902.4	1898.9	1897.1
30°	2042.0	2027.9	2013.9	1997.2	1984.9	1977.0	1970.9	1965.6
32.5°	2134.2	2122.8	2111.3	2099.0	2087.6	2077.1	2067.4	2063.1
35°	2264.1	2255.3	2247.4	2233.4	2229.0	2222.8	2217.6	2213.2
37.5°	2443.2	2439.7	2439.7	2424.7	2421.2	2418.6	2413.3	2414.2
40°	2678.5	2682.0	2677.6	2672.3	2669.7	2662.7	2662.7	2668.8
42.5°	2956.8	2959.4	2969.0	2960.3	2969.9	2961.1	2955.9	2960.3
45°	3279.8	3289.5	3308.8	3300.0	3306.2	3291.2	3272.8	3273.7
47.5°	3642.4	3651.2	3659.1	3652.9	3653.8	3629.2	3604.6	3598.5
50°	4019.0	4022.5	4026.9	4018.1	4019.9	3992.7	3964.6	3965.5
52.5°	4391.2	4407.9	4425.5	4401.8	4396.5	4365.8	4326.3	4310.5
55°	4817.0	4840.7	4820.5	4779.3	4738.0	4696.7	4644.9	4636.2
57.5°	5342.0	5301.6	5238.4	5160.3	5103.2	5045.3	4992.6	4970.6
60°	6072.4	5920.5	5806.4	5690.5	5617.7	5546.5	5477.2	5466.7
62.5°	7104.8	6842.3	6614.9	6375.3	6179.5	6026.8	5904.7	5870.5
65°	8398.8	7778.2	7240.0	6737.8	6301.5	5972.3	5765.1	5673.8
67.5°	8955.4	7729.9	6807.2	6094.3	5523.7	5125.2	4901.3	4789.8
70°	7869.5	6410.4	5407.0	4693.2	4173.5	3748.6	3545.8	3426.4
72.5°	5414.0	4077.8	3224.5	2631.9	2216.7	1861.1	1720.7	1710.1
75°	2430.9	1610.1	1109.7	855.1	719.9	625.9	597.0	575.0
77.5°	680.4	503.0	448.6	419.6	391.5	359.1	346.8	349.4
80°	331.0	312.5	300.2	281.8	256.3	229.1	216.8	222.1
82.5°	219.5	216.8	224.7	211.6	174.7	148.4	124.7	114.1
85°	133.4	135.2	137.8	138.7	117.6	82.5	56.2	63.2
87.5°	52.7	60.6	65.8	68.5	64.1	39.5	31.6	32.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)