

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: P191432

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191432  
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-T3-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16187.2 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G3

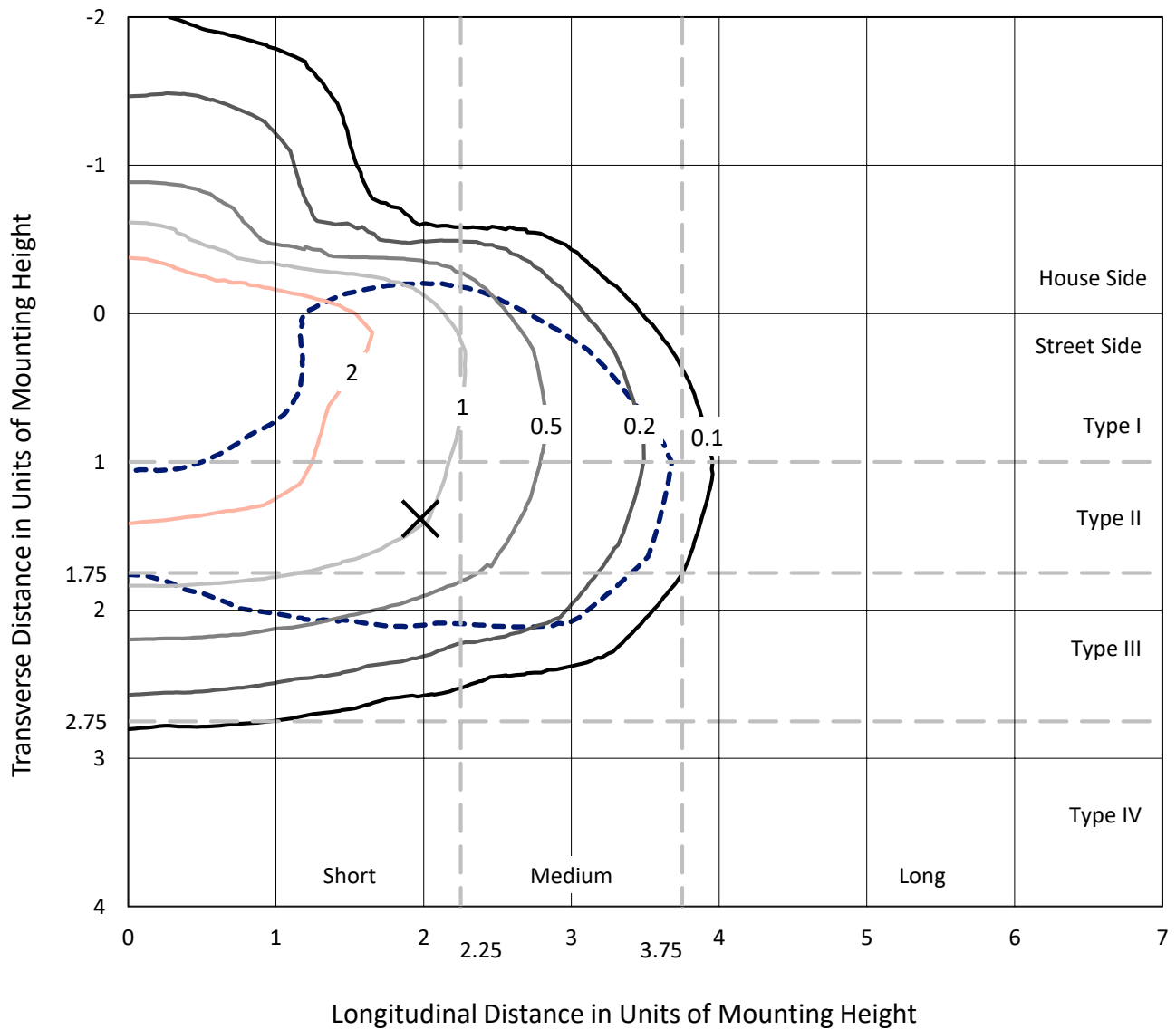
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

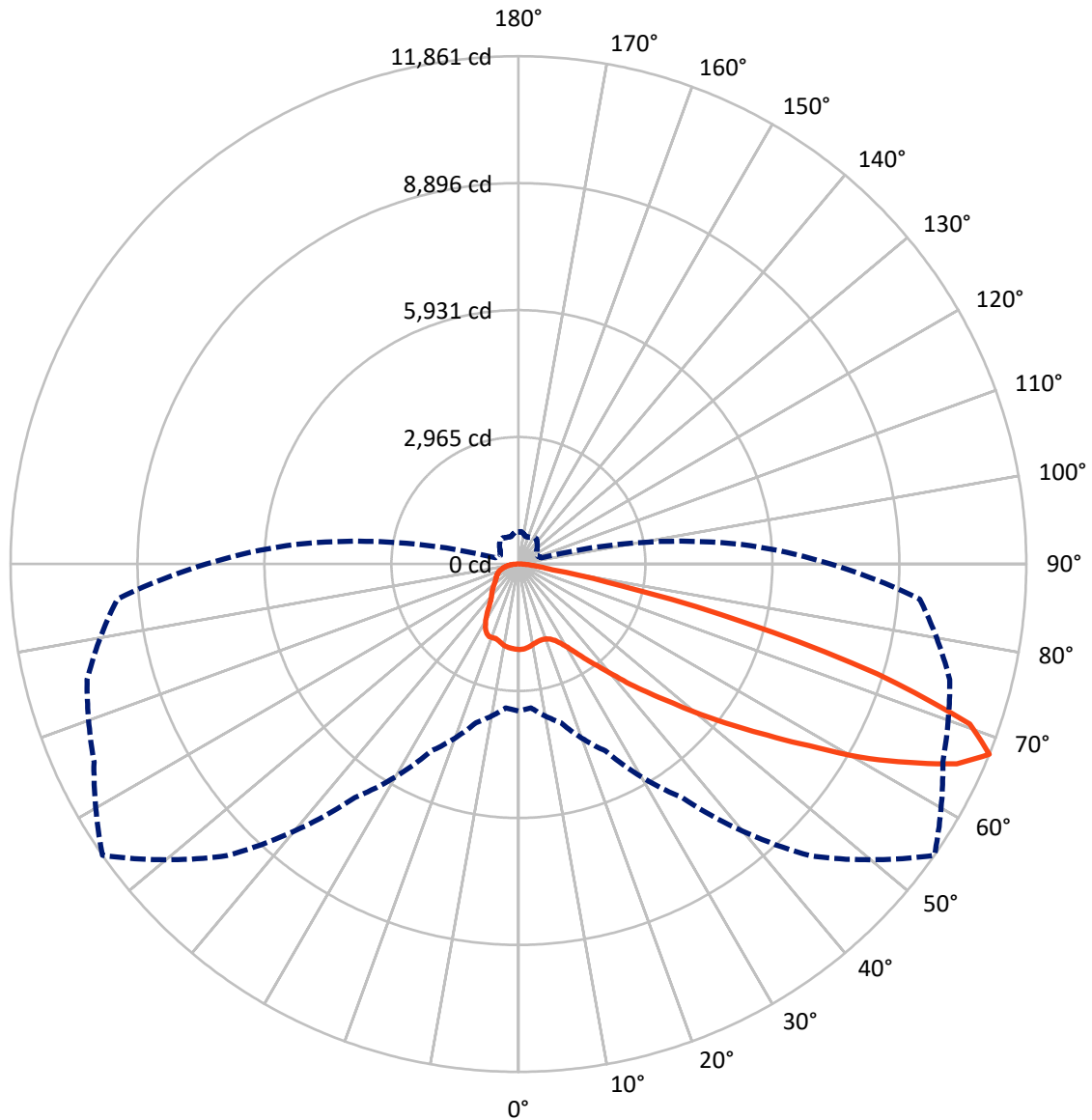
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	3496.8	0.0	3496.8
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	12690.4	0.0	12690.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	16187.2	0.0	16187.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.3	1.2
10°-20°	527.7	3.3
20°-30°	883.9	5.5
30°-40°	1453.5	9.0
40°-50°	2446.7	15.1
50°-60°	3850.9	23.8
60°-70°	4595.7	28.4
70°-80°	1973.5	12.2
80°-90°	269.1	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°	16187.2	100.0
0°-180°	16187.2	100.0



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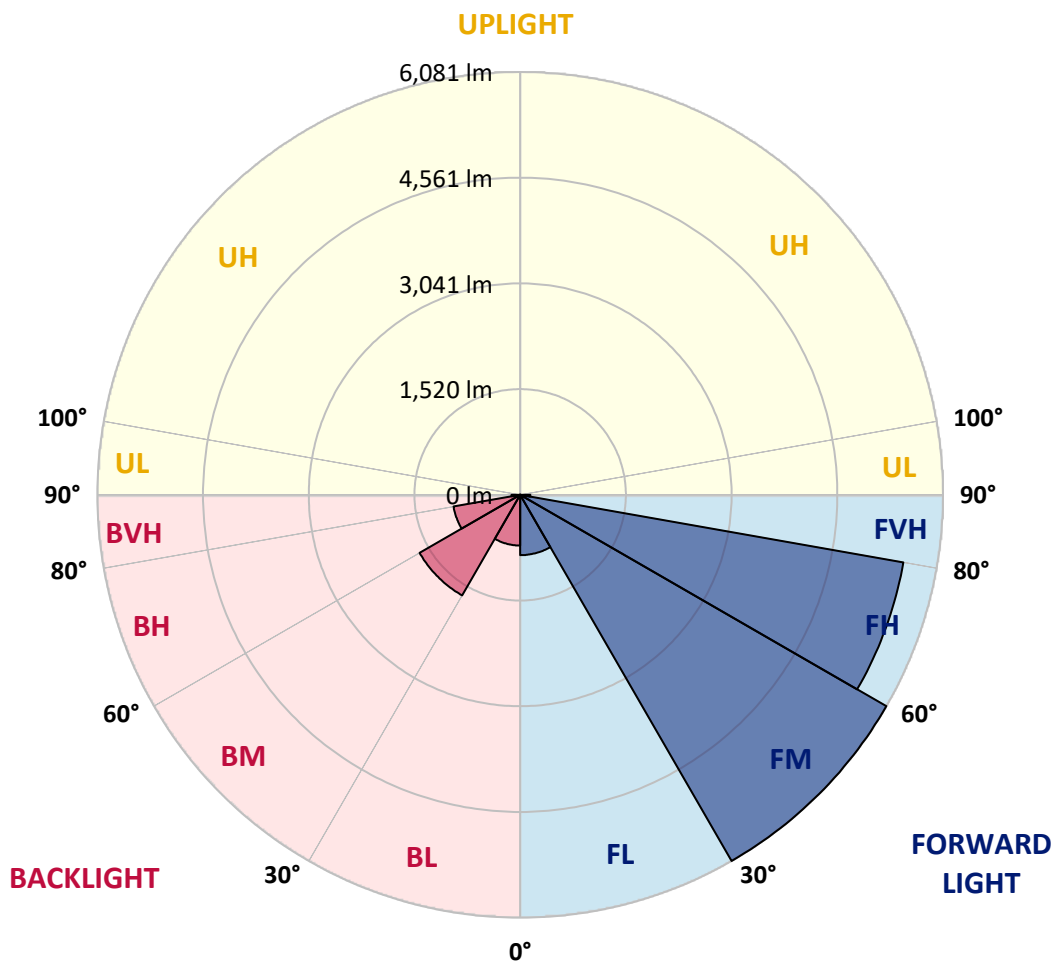
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.7	5.4			
FM	(30°-60°)	6081.1	37.6			
FH	(60°-80°)	5596.0	34.6			G3/7500
FVH	(80°-90°)	145.6	0.9			G2/225
BL	(0°-30°)	730.2	4.5	B2/1000		
BM	(30°-60°)	1670.0	10.3	B2/2500		
BH	(60°-80°)	973.1	6.0	B2/1000		G2/1000
BVH	(80°-90°)	123.4	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1
2.5°	1978.9	1979.6	1981.3	1987.5	1992.9	1991.4	1992.2	1989.0	1988.2	1983.5	1988.2
5°	1953.8	1956.2	1957.0	1967.1	1973.4	1974.9	1972.6	1968.7	1964.0	1959.3	1961.6
7.5°	1896.8	1903.0	1903.8	1917.8	1928.1	1941.4	1942.1	1942.9	1940.5	1937.4	1942.1
10°	1860.7	1862.4	1861.6	1871.7	1879.6	1894.4	1903.0	1917.8	1924.2	1925.7	1928.8
12.5°	1858.5	1856.9	1854.5	1854.5	1852.2	1858.5	1874.0	1895.2	1910.1	1914.8	1918.6
15°	1883.5	1882.6	1874.9	1863.1	1848.3	1843.6	1856.9	1880.4	1899.9	1910.1	1913.9
17.5°	1939.7	1935.1	1922.5	1895.9	1863.9	1851.4	1853.0	1872.5	1895.2	1908.5	1912.4
20°	2042.9	2042.9	2016.3	1966.3	1909.2	1879.6	1865.5	1877.2	1899.1	1917.1	1922.5
22.5°	2221.2	2222.8	2178.3	2096.1	2000.0	1936.7	1901.5	1899.1	1924.9	1945.2	1951.5
25°	2473.8	2467.5	2405.0	2287.7	2141.4	2036.7	1975.7	1961.6	1983.5	2006.2	2014.1
27.5°	2767.7	2745.1	2670.8	2529.2	2340.1	2186.9	2093.0	2070.4	2091.4	2117.2	2125.1
30°	3058.6	3035.1	2946.8	2791.9	2581.6	2387.8	2253.3	2216.5	2246.2	2283.0	2287.7
32.5°	3349.4	3349.4	3250.9	3070.3	2841.2	2627.8	2466.7	2423.0	2472.2	2516.8	2526.9
35°	3697.4	3698.9	3603.5	3386.2	3139.9	2914.0	2736.5	2704.4	2778.6	2809.9	2834.2
37.5°	4125.0	4133.6	4010.9	3748.2	3478.4	3240.7	3029.7	2985.9	3060.2	3145.4	3223.5
40°	4587.1	4598.1	4462.8	4139.1	3869.3	3620.7	3392.4	3313.4	3437.0	3599.7	3700.5
42.5°	5028.0	5084.4	4953.7	4620.7	4330.7	4073.4	3842.0	3727.0	3881.9	4127.4	4215.0
45°	5665.3	5705.9	5478.4	5176.6	4903.7	4616.1	4309.6	4188.4	4404.9	4714.6	4732.5
47.5°	6089.8	6059.3	5943.7	5755.9	5583.2	5314.2	4852.9	4720.0	5007.8	5372.0	5271.2
50°	6315.8	6325.1	6309.5	6320.4	6326.7	6157.9	5519.0	5336.8	5680.1	6120.3	5888.1
52.5°	6526.8	6464.3	6515.9	6772.3	7082.0	7019.4	6243.8	6053.8	6401.0	6950.6	6540.1
55°	6522.1	6426.8	6594.9	7047.6	7719.2	7791.1	7057.7	6838.8	7163.3	7841.1	7231.3
57.5°	6291.6	6296.3	6555.0	7147.7	8163.2	8516.7	8002.2	7673.9	7971.8	8743.4	7862.3
60°	5974.1	6017.1	6390.1	7131.2	8519.0	9111.6	9160.9	8573.8	8763.7	9563.6	8384.5
62.5°	5461.9	5507.4	6021.8	6960.8	8465.0	9684.8	10208.5	9594.9	9591.7	10060.8	8537.8
65°	4654.3	4641.0	5181.3	6323.6	8012.4	10108.5	11249.2	10477.6	10215.6	10068.6	8229.7
67.5°	3432.3	3372.9	3836.5	4816.2	6659.8	9633.9	11861.4	10937.3	10428.3	9406.4	7288.4
70°	1781.1	1721.6	2096.9	2812.3	4379.9	7519.0	11183.5	10699.6	9958.4	7884.9	5709.8
72.5°	761.5	751.4	903.8	1233.8	2118.8	4336.9	8769.2	9261.0	8544.8	5874.8	3925.7
75°	512.1	509.0	566.1	672.4	953.1	1760.0	5487.8	6573.8	6251.7	3642.6	2207.9
77.5°	401.9	397.9	431.6	483.1	617.7	694.3	2435.4	3529.3	3266.6	1585.6	966.4
80°	314.4	311.2	332.3	360.4	444.1	437.8	801.4	1404.2	1086.8	607.5	469.8
82.5°	247.9	247.9	265.0	265.9	315.1	298.7	418.3	618.5	542.6	354.1	287.8
85°	226.7	226.7	244.7	198.6	205.6	188.4	259.5	366.7	344.0	145.5	125.1
87.5°	114.2	111.0	205.6	175.9	111.8	100.0	126.6	177.5	190.8	80.5	62.5
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°	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1	1996.1
2.5°	1986.7	1985.9	1987.5	1988.2	1994.4	2003.1	2007.0	2012.5	2015.6	2014.1
5°	1963.2	1964.8	1971.0	1975.7	1986.7	2000.8	2008.6	2014.8	2020.3	2018.0
7.5°	1943.7	1947.6	1957.0	1960.9	1967.1	1971.0	1970.2	1972.6	1977.3	1971.8
10°	1932.8	1937.4	1944.4	1939.0	1924.2	1903.0	1883.5	1873.3	1876.4	1872.5
12.5°	1921.8	1928.1	1922.5	1896.8	1855.3	1827.9	1813.1	1814.7	1821.7	1823.3
15°	1915.5	1917.8	1894.4	1845.9	1803.8	1799.8	1807.7	1806.0	1806.8	1806.8
17.5°	1915.5	1909.2	1865.5	1817.0	1799.1	1792.0	1767.8	1737.3	1724.0	1719.3
20°	1925.7	1909.2	1856.1	1824.0	1784.9	1724.8	1660.7	1604.4	1579.3	1572.3
22.5°	1956.2	1928.1	1882.6	1827.2	1716.2	1615.3	1513.7	1446.5	1401.0	1393.3
25°	2018.0	1986.7	1935.1	1785.8	1606.6	1462.8	1347.1	1272.0	1226.7	1220.5
27.5°	2125.8	2105.5	1963.2	1694.3	1461.3	1307.2	1200.1	1142.3	1108.7	1106.3
30°	2288.4	2278.3	1949.1	1559.0	1282.3	1156.3	1104.8	1071.1	1046.1	1045.4
32.5°	2548.1	2465.9	1903.0	1394.1	1118.8	1049.2	1028.2	1007.8	988.3	988.3
35°	2881.9	2617.6	1815.4	1217.3	1019.6	989.8	963.2	931.2	905.4	903.8
37.5°	3274.4	2711.4	1658.3	1075.0	972.6	949.9	910.8	863.2	817.8	810.0
40°	3670.8	2739.6	1437.0	987.5	943.0	910.1	862.3	806.1	762.3	760.0
42.5°	4034.3	2685.7	1202.5	927.3	913.2	869.4	819.4	769.4	734.9	734.2
45°	4339.3	2545.7	1005.5	870.2	881.9	832.7	788.1	747.5	720.9	715.3
47.5°	4626.2	2347.9	867.1	810.0	850.7	812.3	774.8	736.5	710.7	706.8
50°	4959.3	2134.5	770.1	751.4	823.3	805.3	785.7	745.8	702.9	698.2
52.5°	5362.7	1949.9	694.3	699.8	802.2	814.7	813.9	772.4	697.4	691.1
55°	5813.0	1745.1	637.2	657.6	793.6	831.9	820.9	797.5	702.1	692.7
57.5°	6256.4	1505.9	597.3	625.4	781.0	830.3	787.4	753.7	713.0	699.8
60°	6588.6	1184.5	566.8	597.3	753.7	804.6	750.5	706.0	710.7	700.5
62.5°	6610.5	915.5	530.1	573.1	712.3	778.7	726.3	684.9	720.9	711.5
65°	6221.9	691.9	494.9	544.2	667.7	762.3	702.9	673.2	741.9	731.8
67.5°	5238.3	556.7	465.2	514.4	623.2	727.9	681.8	662.3	760.8	742.8
70°	3781.7	474.5	436.3	478.5	583.3	688.9	663.0	642.7	709.9	681.8
72.5°	2328.3	411.2	403.5	430.8	552.8	648.1	634.8	605.9	639.5	616.8
75°	1162.6	356.5	366.7	383.9	509.7	602.0	588.0	559.0	563.7	559.0
77.5°	556.7	304.9	323.7	337.0	454.3	549.6	534.8	505.0	499.6	500.4
80°	352.6	254.9	272.8	282.2	405.8	488.7	473.8	444.1	506.7	469.8
82.5°	220.4	207.1	211.9	229.0	353.4	425.3	405.8	379.2	456.6	361.2
85°	121.9	144.6	150.9	165.7	272.1	355.8	336.2	302.6	271.3	266.6
87.5°	72.7	86.0	88.4	99.3	182.9	257.3	227.5	215.7	179.0	178.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)