

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: P193542

Luminaire Tested: **GLEON-AF-04-LED-E1-RW-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16181 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4

Input Watts (W): 171  
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

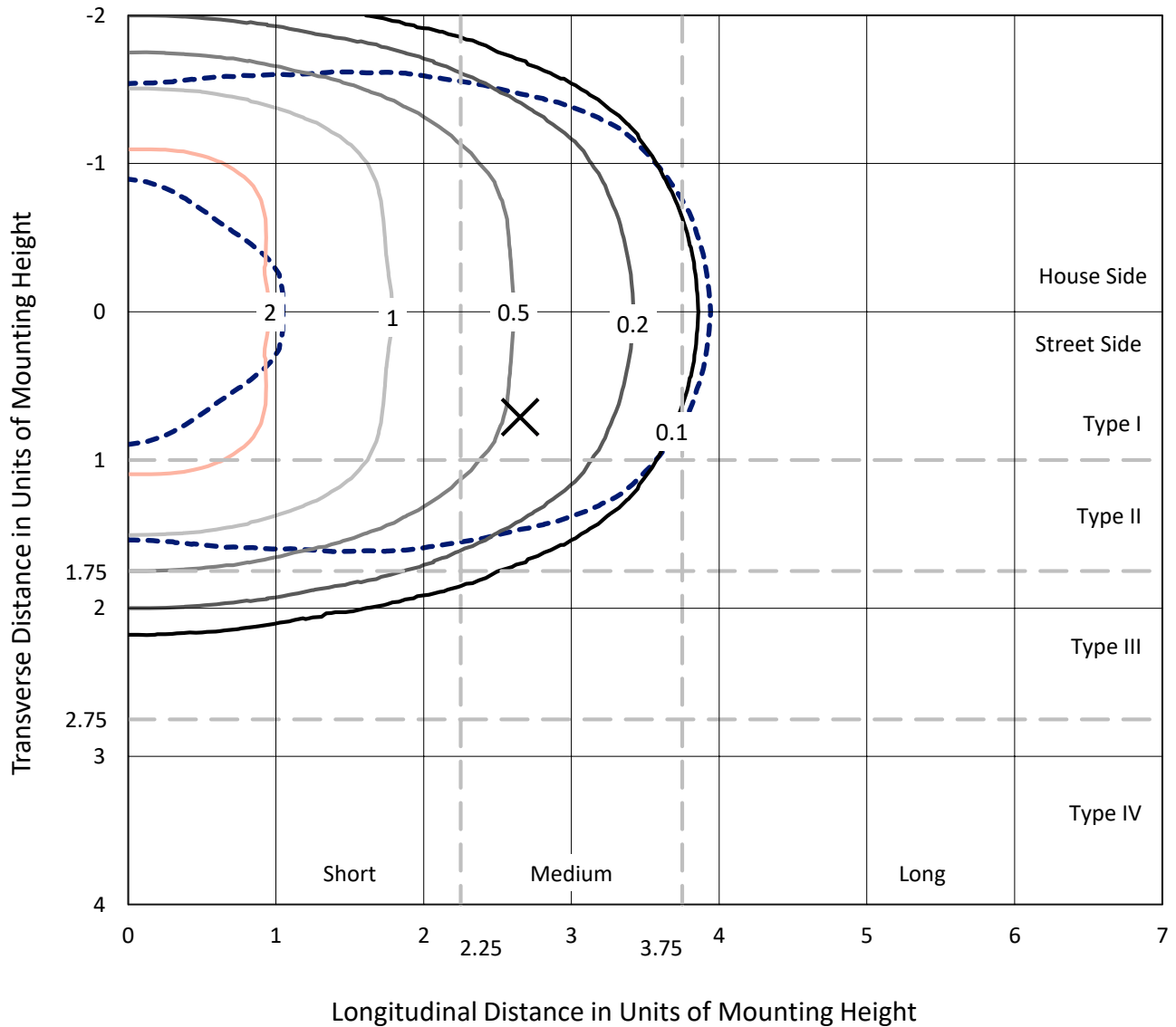


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

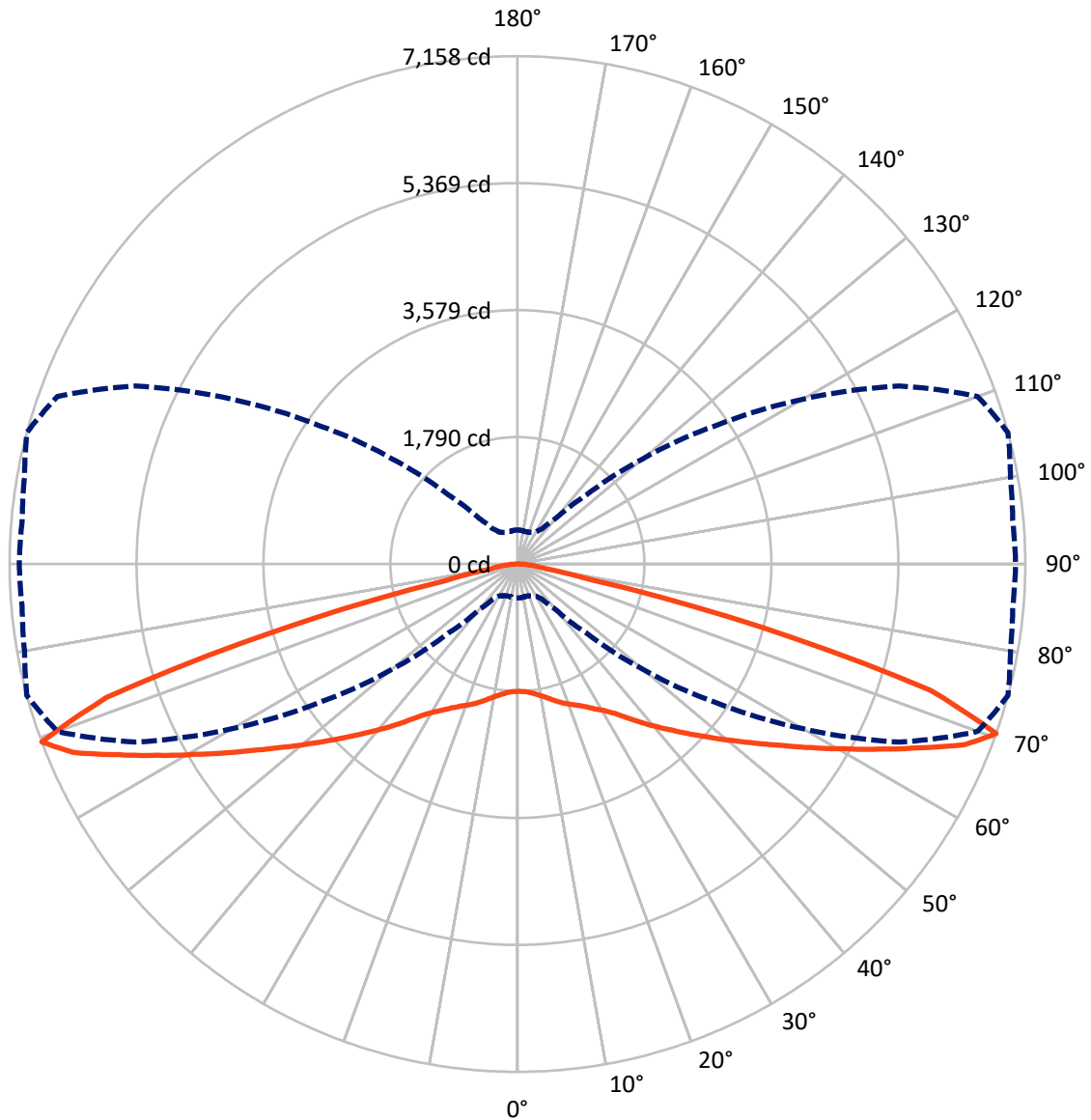


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8090.5	0.0	8090.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8090.5	0.0	8090.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16181.0	0.0	16181.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.1	1.1
10°-20°	534.9	3.3
20°-30°	1006.7	6.2
30°-40°	1782.7	11.0
40°-50°	2981.2	18.4
50°-60°	4154.3	25.7
60°-70°	3852.4	23.8
70°-80°	1535.3	9.5
80°-90°	161.4	1.0
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°	16181.0	100.0
0°-180°	16181.0	100.0



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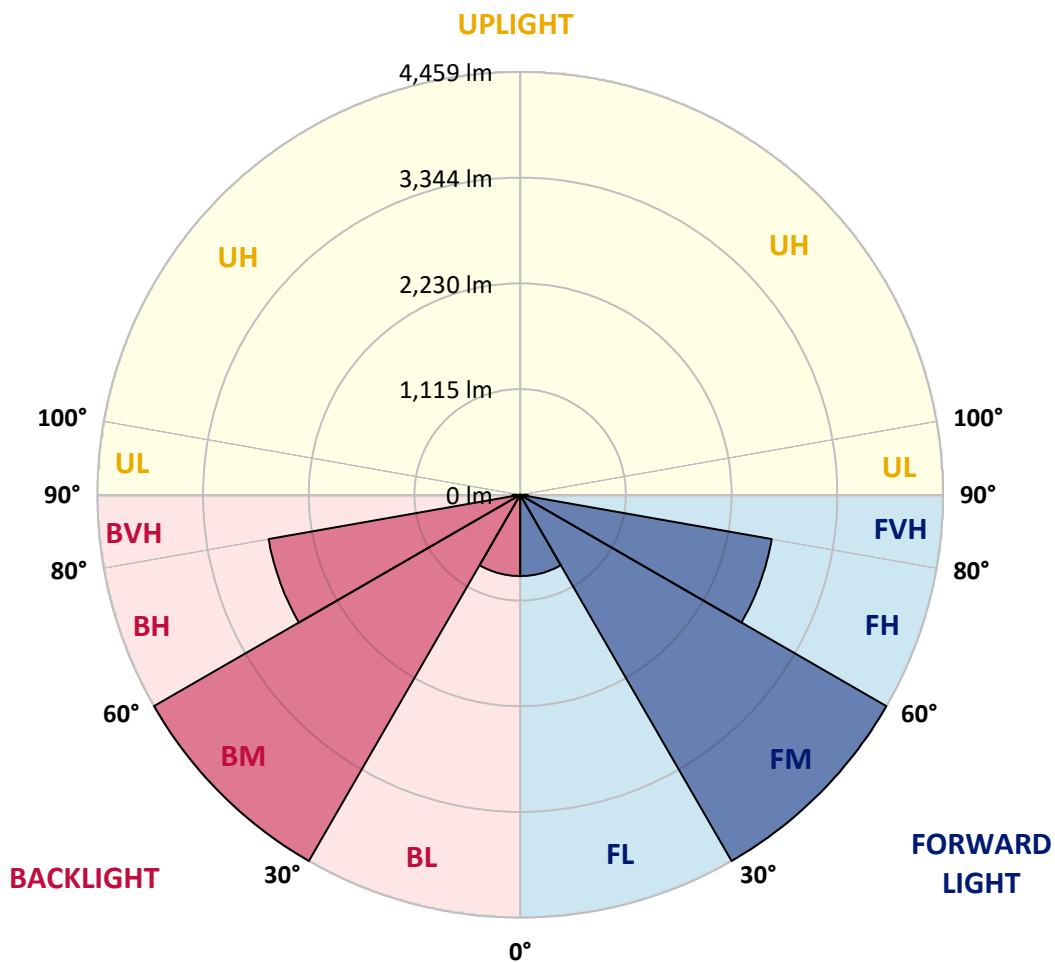
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.9	5.3			
FM	(30°-60°)	4459.1	27.6			
FH	(60°-80°)	2693.9	16.6			G2/5000
FVH	(80°-90°)	80.7	0.5			G1/100
BL	(0°-30°)	856.9	5.3	B2/1000		
BM	(30°-60°)	4459.1	27.6	B3/5000		
BH	(60°-80°)	2693.9	16.6	B4/5000		G4/5000
BVH	(80°-90°)	80.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8
2.5°	1791.8	1790.3	1791.8	1791.0	1792.6	1792.6	1794.1	1797.1	1797.1	1799.4	1798.7
5°	1774.2	1773.4	1775.7	1778.0	1780.3	1784.9	1789.5	1796.4	1801.7	1805.6	1809.4
7.5°	1739.8	1739.8	1742.8	1748.2	1753.6	1763.5	1774.2	1788.0	1801.7	1813.2	1823.1
10°	1711.5	1713.0	1716.8	1726.0	1735.2	1750.5	1765.0	1784.9	1804.0	1823.1	1838.4
12.5°	1694.7	1697.0	1703.8	1717.6	1732.9	1753.6	1775.7	1801.0	1822.4	1845.3	1860.6
15°	1700.0	1701.6	1711.5	1728.3	1748.2	1774.2	1804.0	1833.9	1859.1	1883.6	1904.2
17.5°	1729.8	1732.1	1743.6	1762.7	1783.4	1814.0	1846.1	1879.7	1911.1	1938.6	1963.9
20°	1783.4	1785.7	1800.2	1820.9	1845.3	1876.7	1908.8	1944.0	1979.2	2008.2	2036.5
22.5°	1859.1	1862.9	1876.7	1897.3	1924.9	1958.5	1996.7	2034.2	2067.9	2094.6	2119.9
25°	1958.5	1966.9	1979.9	2002.9	2031.9	2062.5	2103.8	2142.0	2174.2	2199.4	2217.8
27.5°	2099.2	2110.7	2120.6	2142.8	2171.1	2200.2	2241.5	2275.1	2305.7	2330.2	2343.9
30°	2285.8	2297.3	2307.2	2328.6	2354.6	2382.2	2421.2	2451.0	2470.1	2489.2	2488.5
32.5°	2512.2	2524.4	2528.2	2551.2	2577.9	2607.8	2642.9	2659.8	2675.1	2677.4	2663.6
35°	2765.3	2771.4	2786.7	2817.3	2847.9	2872.4	2906.0	2914.4	2914.4	2903.0	2872.4
37.5°	3042.9	3046.7	3068.1	3102.6	3133.9	3159.2	3182.1	3198.9	3190.5	3166.0	3114.8
40°	3347.3	3354.2	3384.7	3415.3	3450.5	3474.2	3498.7	3501.8	3493.3	3457.4	3387.8
42.5°	3637.9	3644.0	3674.6	3722.8	3768.6	3801.5	3824.5	3829.1	3802.3	3769.4	3683.0
45°	3887.9	3904.0	3943.8	4000.4	4066.9	4113.5	4144.9	4157.9	4134.2	4091.4	3991.2
47.5°	4086.0	4102.1	4158.7	4226.0	4308.6	4384.3	4436.3	4463.8	4457.7	4425.6	4316.2
50°	4231.3	4246.6	4307.8	4390.4	4486.7	4580.8	4669.5	4735.3	4758.2	4743.7	4643.5
52.5°	4248.1	4273.4	4345.3	4456.2	4581.6	4710.0	4836.2	4947.9	5023.6	5035.1	4960.9
55°	4013.4	4038.6	4138.0	4302.4	4489.0	4698.6	4900.5	5088.6	5237.7	5314.2	5275.2
57.5°	3459.7	3504.8	3609.6	3802.3	4076.8	4390.4	4712.3	5046.5	5350.1	5552.8	5591.8
60°	2651.4	2704.9	2810.4	3015.4	3321.3	3695.2	4125.0	4619.0	5155.1	5610.9	5883.2
62.5°	1700.8	1751.3	1862.1	2040.3	2289.6	2695.0	3156.1	3742.6	4463.0	5182.7	5831.2
65°	874.1	901.6	959.8	1067.6	1261.8	1564.7	1978.4	2563.4	3387.0	4274.9	5212.5
67.5°	553.7	559.0	572.0	587.3	637.0	741.8	934.5	1299.3	1976.9	2903.0	4000.4
70°	478.7	478.7	472.6	470.3	476.4	491.0	520.8	605.7	834.3	1378.1	2307.2
72.5°	438.2	433.6	422.9	414.5	413.0	413.0	419.1	432.1	468.8	561.3	903.2
75°	403.8	390.8	376.3	366.3	362.5	358.7	357.9	360.2	367.8	382.4	431.3
77.5°	361.7	344.9	328.1	318.1	313.5	308.2	303.6	298.2	294.4	299.0	320.4
80°	311.3	292.1	279.1	273.0	268.4	260.8	250.8	241.7	233.2	231.7	244.7
82.5°	250.8	228.7	229.4	231.7	223.3	212.6	201.9	192.0	177.4	169.8	177.4
85°	202.7	191.2	185.8	200.4	188.1	172.1	155.2	137.7	114.7	96.4	104.8
87.5°	78.8	78.8	117.8	181.2	162.9	133.1	113.9	97.1	60.4	46.6	47.4
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°	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8	1794.8
2.5°	1797.9	1799.4	1798.7	1797.9	1797.9	1797.1	1797.9	1797.9
5°	1811.7	1815.5	1815.5	1817.0	1817.0	1817.8	1818.6	1817.8
7.5°	1832.3	1839.2	1843.8	1849.1	1849.9	1850.7	1852.2	1850.7
10°	1853.0	1866.7	1876.7	1886.6	1891.2	1892.7	1894.3	1894.3
12.5°	1879.0	1898.1	1915.7	1933.3	1941.7	1946.3	1946.3	1949.3
15°	1921.8	1940.9	1961.6	1985.3	1999.8	2007.4	2009.7	2009.7
17.5°	1982.2	1999.0	2016.6	2039.6	2057.9	2067.9	2070.2	2069.4
20°	2052.6	2068.6	2078.6	2093.1	2109.2	2120.6	2123.7	2123.7
22.5°	2132.9	2142.0	2143.6	2148.2	2161.2	2176.5	2183.3	2184.9
25°	2221.6	2223.9	2217.8	2217.8	2226.2	2240.7	2247.6	2248.3
27.5°	2336.3	2324.8	2309.5	2304.2	2309.5	2326.3	2334.8	2337.8
30°	2479.3	2451.8	2416.6	2397.5	2394.4	2416.6	2431.9	2434.2
32.5°	2642.9	2603.2	2556.5	2517.5	2507.6	2521.4	2539.7	2538.9
35°	2837.2	2789.8	2733.2	2683.5	2660.5	2674.3	2700.3	2703.4
37.5°	3061.3	2999.3	2934.3	2871.6	2835.7	2839.5	2867.0	2876.2
40°	3311.3	3231.0	3149.2	3065.1	3013.8	3003.9	3037.6	3042.9
42.5°	3579.0	3475.8	3372.5	3268.5	3202.7	3187.4	3226.4	3224.2
45°	3864.2	3732.7	3611.9	3497.2	3419.2	3396.2	3428.3	3428.3
47.5°	4170.9	4008.8	3865.0	3735.0	3650.1	3617.2	3647.8	3650.1
50°	4495.9	4323.9	4154.8	4010.3	3908.6	3866.5	3906.3	3912.4
52.5°	4819.4	4651.9	4481.4	4316.2	4193.1	4141.8	4187.7	4207.6
55°	5147.5	4983.1	4820.2	4658.8	4512.7	4452.3	4501.3	4526.5
57.5°	5493.9	5341.7	5186.5	5023.6	4882.9	4788.8	4840.8	4874.5
60°	5900.0	5770.0	5608.6	5428.9	5286.7	5191.1	5220.9	5250.7
62.5°	6221.2	6271.7	6134.8	5926.8	5744.0	5621.6	5650.7	5682.0
65°	6065.9	6583.7	6705.3	6495.0	6241.8	6051.4	6039.2	6055.2
67.5°	5070.2	6075.9	6809.3	7009.6	6797.8	6533.2	6484.2	6508.0
70°	3391.6	4644.3	5938.2	6901.8	7158.0	7055.5	7007.3	7021.9
72.5°	1628.9	2704.9	4028.7	5309.6	6089.6	6447.5	6562.3	6618.1
75°	595.7	1073.7	1941.7	2925.9	3532.3	4089.1	4452.3	4600.7
77.5°	359.4	433.6	620.2	933.8	1057.6	1183.8	1134.9	1159.3
80°	266.1	300.5	340.3	382.4	396.1	396.1	380.8	368.6
82.5°	186.6	208.8	227.9	250.8	257.0	245.5	201.9	160.6
85°	120.1	130.0	138.4	152.9	149.1	142.2	95.6	84.9
87.5°	55.1	62.7	65.8	72.7	69.6	66.5	47.4	39.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)