

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: P200234

Luminaire Tested: **GPC-AF-02-LED-E1-5NQ-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-02-LED-E1-5NQ-7050-1200  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14057 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

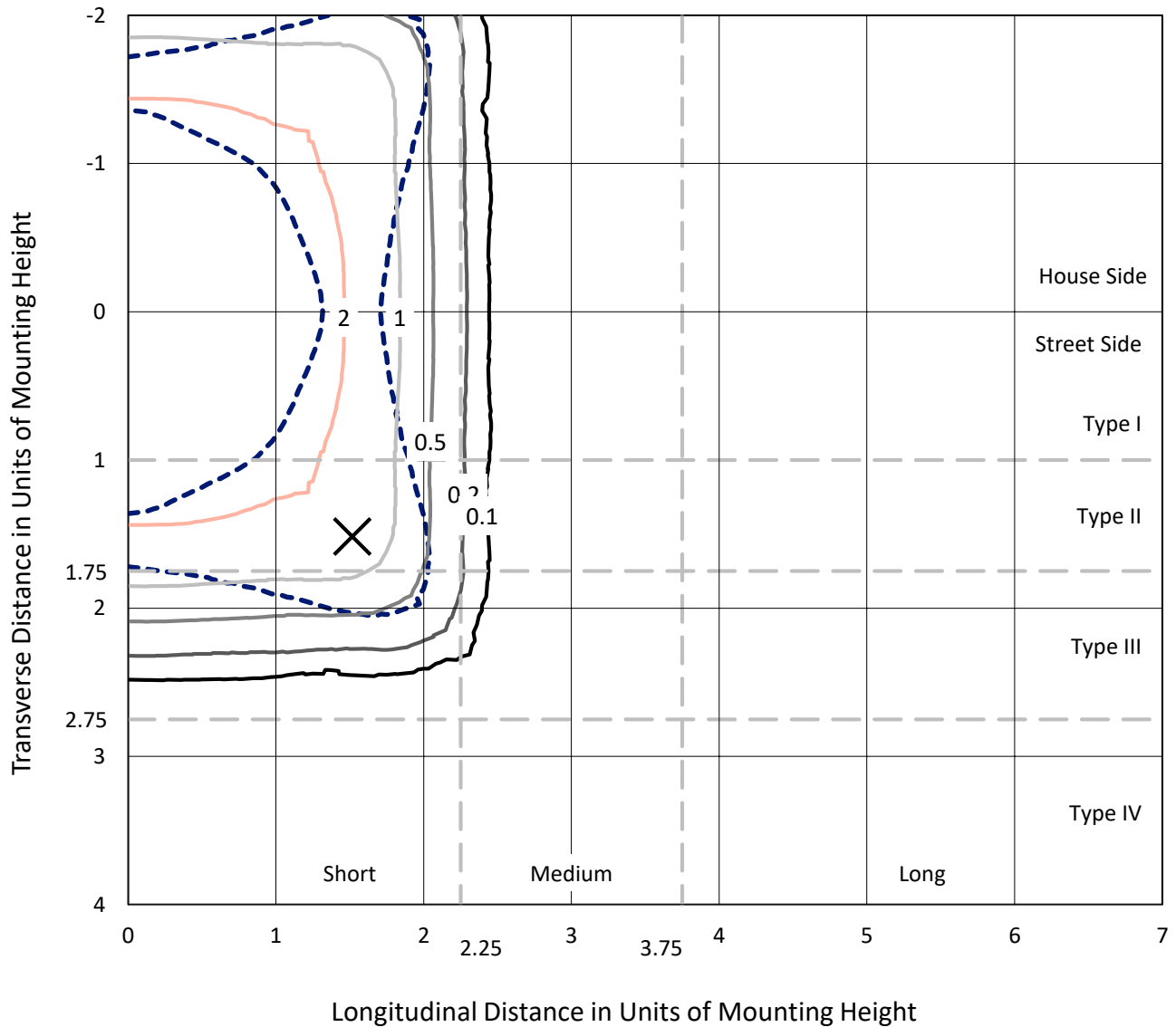
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

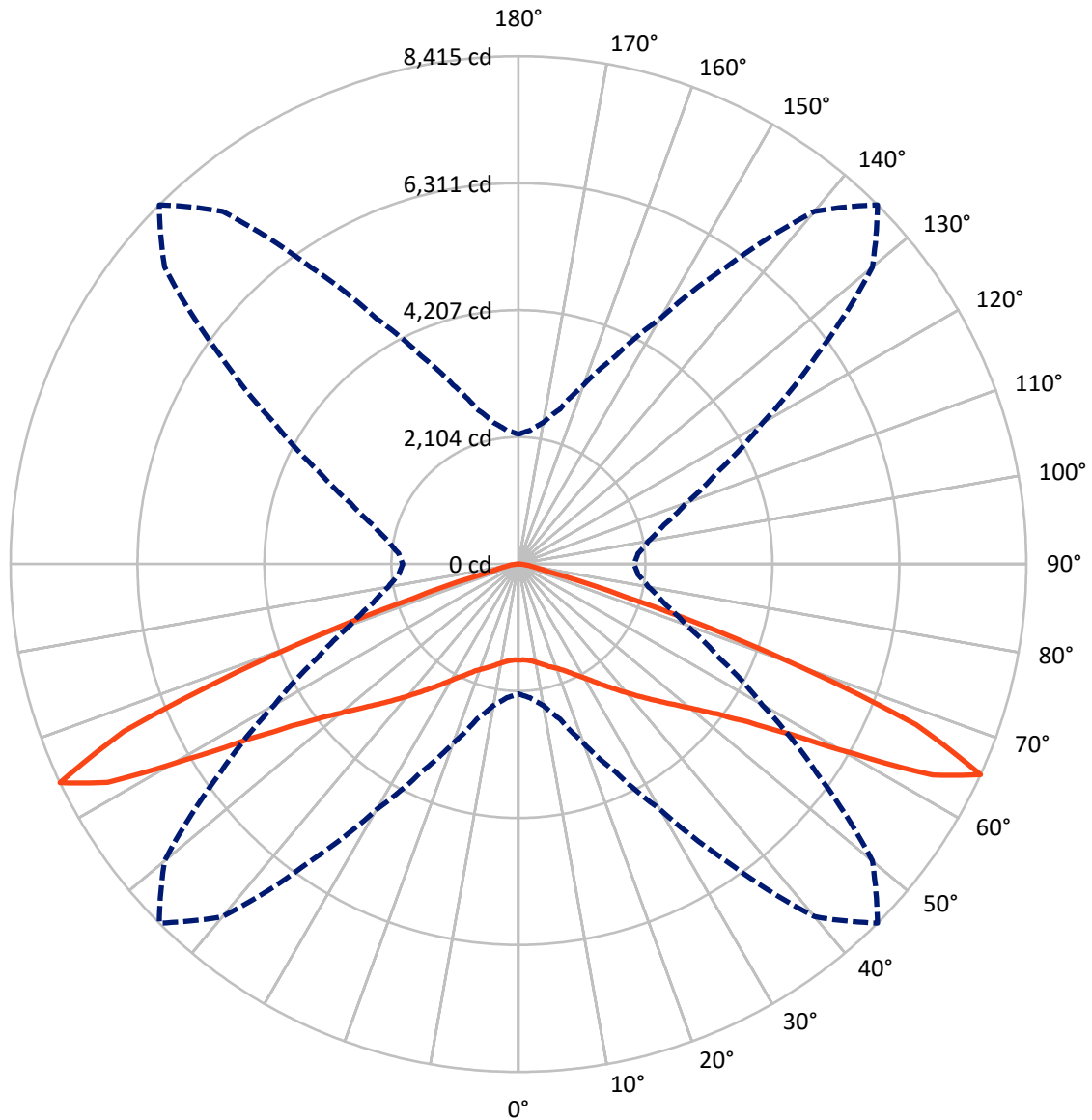
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7028.5	0.0	7028.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7028.5	0.0	7028.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14057.0	0.0	14057.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.0	1.1
10°-20°	497.2	3.5
20°-30°	929.7	6.6
30°-40°	1572.3	11.2
40°-50°	2570.9	18.3
50°-60°	4088.2	29.1
60°-70°	3695.5	26.3
70°-80°	467.7	3.3
80°-90°	80.5	0.6
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°	14057.0	100.0
0°-180°	14057.0	100.0



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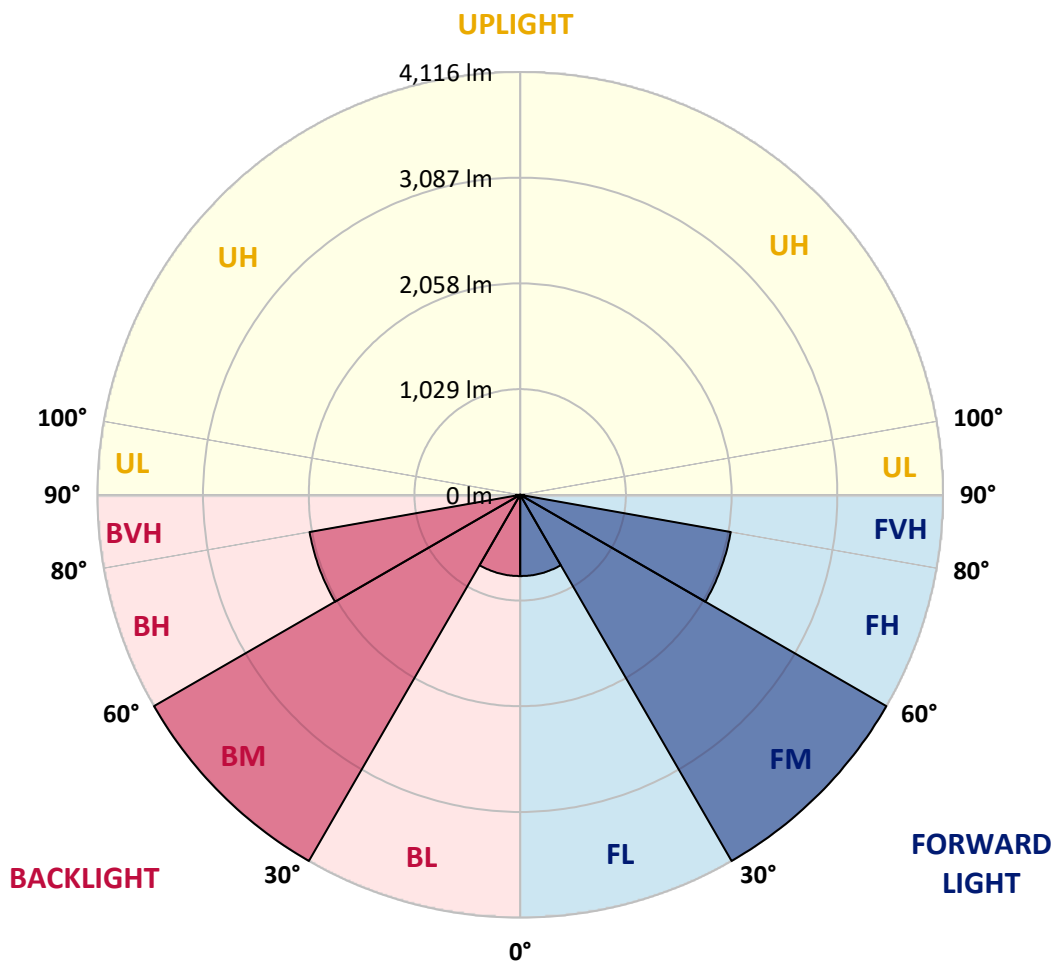
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	791.0	5.6			
FM	(30°-60°)	4115.7	29.3			
FH	(60°-80°)	2081.6	14.8			G2/5000
FVH	(80°-90°)	40.2	0.3			G1/100
BL	(0°-30°)	791.0	5.6	B2/1000		
BM	(30°-60°)	4115.7	29.3	B3/5000		
BH	(60°-80°)	2081.6	14.8	B3/2500		G2/5000
BVH	(80°-90°)	40.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1591.9	1593.2	1594.5	1593.2	1594.5	1592.5	1591.2	1593.2	1591.2	1589.2	1590.6
5°	1605.7	1606.4	1606.4	1604.4	1606.4	1605.0	1603.1	1605.7	1603.7	1601.7	1603.1
7.5°	1628.7	1631.4	1629.4	1627.4	1628.7	1627.4	1626.1	1626.8	1626.1	1624.1	1624.8
10°	1659.7	1661.7	1660.3	1659.7	1661.0	1660.3	1659.0	1658.4	1659.0	1657.0	1657.0
12.5°	1697.2	1696.6	1695.9	1696.6	1698.5	1698.5	1697.9	1698.5	1699.8	1700.5	1699.2
15°	1734.1	1735.4	1735.4	1735.4	1739.3	1742.6	1744.6	1745.9	1748.6	1749.2	1746.6
17.5°	1780.2	1780.2	1779.5	1780.2	1784.1	1789.4	1791.4	1794.0	1796.6	1798.6	1795.3
20°	1831.5	1832.8	1832.8	1834.1	1839.4	1845.3	1845.3	1846.7	1845.3	1846.7	1844.7
22.5°	1894.1	1898.0	1898.0	1898.7	1903.9	1911.2	1909.2	1911.2	1907.9	1910.5	1907.9
25°	1975.7	1981.6	1980.3	1980.3	1984.2	1988.9	1989.5	1993.5	1992.8	1996.1	1994.1
27.5°	2067.9	2077.1	2079.7	2079.0	2081.7	2086.3	2087.6	2092.2	2089.6	2092.2	2090.9
30°	2178.5	2182.4	2187.7	2189.6	2192.9	2197.5	2197.5	2198.2	2194.9	2198.9	2200.8
32.5°	2293.0	2300.3	2305.5	2317.4	2323.3	2326.6	2325.9	2327.2	2324.0	2329.2	2333.2
35°	2444.4	2449.7	2458.3	2467.5	2475.4	2474.7	2472.7	2473.4	2473.4	2478.0	2482.0
37.5°	2626.8	2628.1	2639.3	2652.5	2656.4	2652.5	2640.6	2638.0	2632.1	2638.0	2644.6
40°	2819.7	2824.3	2846.7	2855.2	2857.2	2850.0	2832.9	2823.0	2809.8	2817.1	2826.3
42.5°	3021.8	3031.0	3051.4	3066.6	3073.1	3068.5	3044.8	3029.7	3012.6	3016.5	3025.7
45°	3245.6	3256.8	3285.8	3300.3	3312.8	3305.5	3282.5	3259.5	3232.5	3234.4	3248.9
47.5°	3495.8	3507.0	3544.5	3568.9	3575.5	3574.1	3548.5	3516.9	3480.0	3478.7	3491.2
50°	3776.3	3787.4	3834.2	3871.7	3890.8	3888.8	3858.5	3813.8	3769.0	3769.7	3785.5
52.5°	4050.1	4064.0	4112.7	4177.2	4214.7	4241.7	4223.3	4181.1	4126.5	4127.8	4142.3
55°	4306.9	4329.9	4385.9	4473.4	4543.2	4618.9	4640.7	4639.3	4606.4	4615.6	4630.1
57.5°	4431.3	4465.5	4551.8	4690.0	4832.2	4986.3	5116.6	5214.1	5255.6	5318.1	5303.6
60°	4195.6	4250.3	4377.3	4580.8	4861.9	5183.1	5527.4	5863.9	6150.9	6367.5	6243.1
62.5°	3435.2	3506.3	3660.4	3921.1	4346.4	4860.5	5519.5	6314.8	7181.2	7703.9	7330.7
65°	2149.5	2223.2	2379.9	2659.0	3156.8	3796.0	4690.0	6008.0	7626.9	8414.9	7655.2
67.5°	838.1	878.2	963.2	1141.6	1515.5	2084.3	2981.6	4477.4	6413.6	7104.2	6294.4
70°	420.0	424.0	439.8	472.7	553.0	718.3	1092.8	2075.8	3678.2	4442.5	3545.8
72.5°	303.5	304.2	312.1	326.5	352.2	389.1	460.2	635.3	1196.2	1828.2	1121.2
75°	232.4	235.0	239.6	247.5	261.4	279.8	305.5	366.0	453.6	526.0	442.4
77.5°	179.1	184.3	187.6	194.9	203.4	215.9	223.2	246.2	286.4	301.5	296.9
80°	136.3	140.9	148.1	154.1	160.0	165.9	163.3	173.8	194.9	207.4	200.8
82.5°	86.9	92.2	113.2	118.5	121.1	125.1	120.5	121.1	130.4	138.3	130.4
85°	56.0	59.3	71.8	78.3	79.0	81.6	79.7	75.1	75.1	68.5	77.0
87.5°	25.7	26.3	32.3	38.2	39.5	35.6	34.9	33.6	27.0	25.7	27.7
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°	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6	1590.6
2.5°	1589.9	1591.2	1591.9	1593.8	1594.5	1594.5	1595.2	1596.5
5°	1602.4	1604.4	1605.0	1607.7	1608.3	1607.7	1609.0	1609.6
7.5°	1624.8	1628.1	1629.4	1632.0	1630.1	1632.7	1633.3	1633.3
10°	1657.7	1661.0	1661.7	1664.3	1663.0	1664.3	1664.3	1663.0
12.5°	1701.2	1701.8	1699.8	1701.8	1699.2	1700.5	1698.5	1697.2
15°	1749.2	1747.2	1742.6	1742.6	1738.7	1739.3	1738.7	1738.0
17.5°	1796.0	1792.0	1788.7	1787.4	1784.1	1783.5	1781.5	1781.5
20°	1847.3	1845.3	1843.4	1840.7	1837.4	1834.1	1833.5	1834.8
22.5°	1909.2	1908.5	1908.5	1907.2	1902.6	1899.3	1897.3	1897.3
25°	1992.1	1986.2	1986.2	1985.6	1983.6	1981.6	1977.7	1979.6
27.5°	2085.6	2082.3	2085.0	2084.3	2082.3	2082.3	2079.7	2079.7
30°	2200.8	2199.5	2203.5	2200.2	2193.6	2192.9	2190.3	2187.0
32.5°	2333.8	2332.5	2338.4	2334.5	2324.0	2318.0	2312.8	2310.1
35°	2482.0	2482.6	2489.9	2487.2	2475.4	2471.4	2462.2	2460.9
37.5°	2643.9	2654.4	2666.9	2669.6	2659.7	2657.1	2647.2	2641.9
40°	2834.2	2848.0	2867.1	2871.7	2861.2	2859.2	2845.4	2838.1
42.5°	3036.9	3060.6	3084.3	3088.3	3077.8	3067.2	3054.1	3048.8
45°	3263.4	3291.7	3322.7	3330.6	3314.8	3302.2	3285.1	3285.1
47.5°	3517.5	3553.1	3588.0	3609.7	3595.2	3582.0	3561.6	3548.5
50°	3817.7	3866.4	3911.9	3934.3	3911.2	3886.2	3850.6	3838.8
52.5°	4194.3	4247.0	4286.5	4274.6	4239.1	4204.2	4165.3	4149.5
55°	4674.9	4692.7	4692.7	4647.9	4576.8	4518.2	4457.0	4436.6
57.5°	5276.0	5207.5	5102.2	4968.5	4800.6	4654.5	4555.7	4509.0
60°	5982.4	5653.2	5281.2	4915.8	4615.6	4368.1	4221.3	4154.1
62.5°	6453.1	5592.0	4846.7	4260.1	3828.3	3530.0	3327.3	3248.3
65°	6031.1	4663.7	3665.7	2963.9	2493.1	2189.6	1988.9	1915.1
67.5°	4417.5	2922.4	1952.0	1399.0	1025.0	817.7	735.4	701.1
70°	1982.9	1029.0	630.7	492.4	424.6	389.7	374.6	369.3
72.5°	597.8	432.5	364.7	329.2	302.2	285.1	272.6	271.2
75°	360.8	300.2	266.6	245.6	228.4	214.6	208.0	206.1
77.5°	252.1	220.5	204.7	189.6	176.4	165.9	160.0	155.4
80°	177.1	162.0	154.7	146.2	137.6	127.7	119.2	115.2
82.5°	118.5	115.2	115.2	109.9	102.7	93.5	76.4	72.4
85°	76.4	75.7	77.0	75.1	69.8	59.9	49.4	46.7
87.5°	35.6	36.2	40.2	39.5	38.2	31.6	25.0	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)