

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: P269127

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269127  
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: GLEON-AF-03-LED-E1-5NQ-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13157.7 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 124  
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

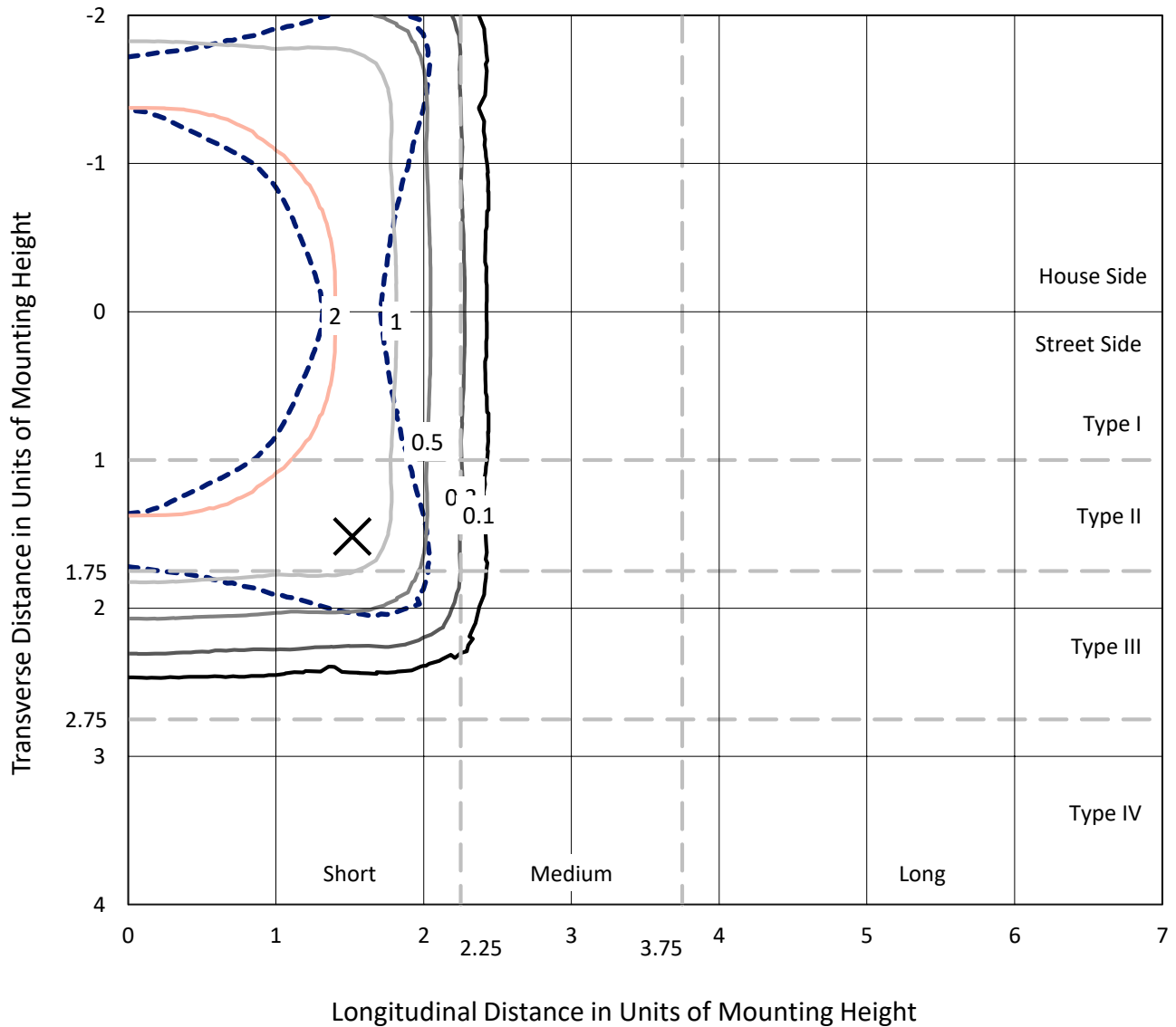


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

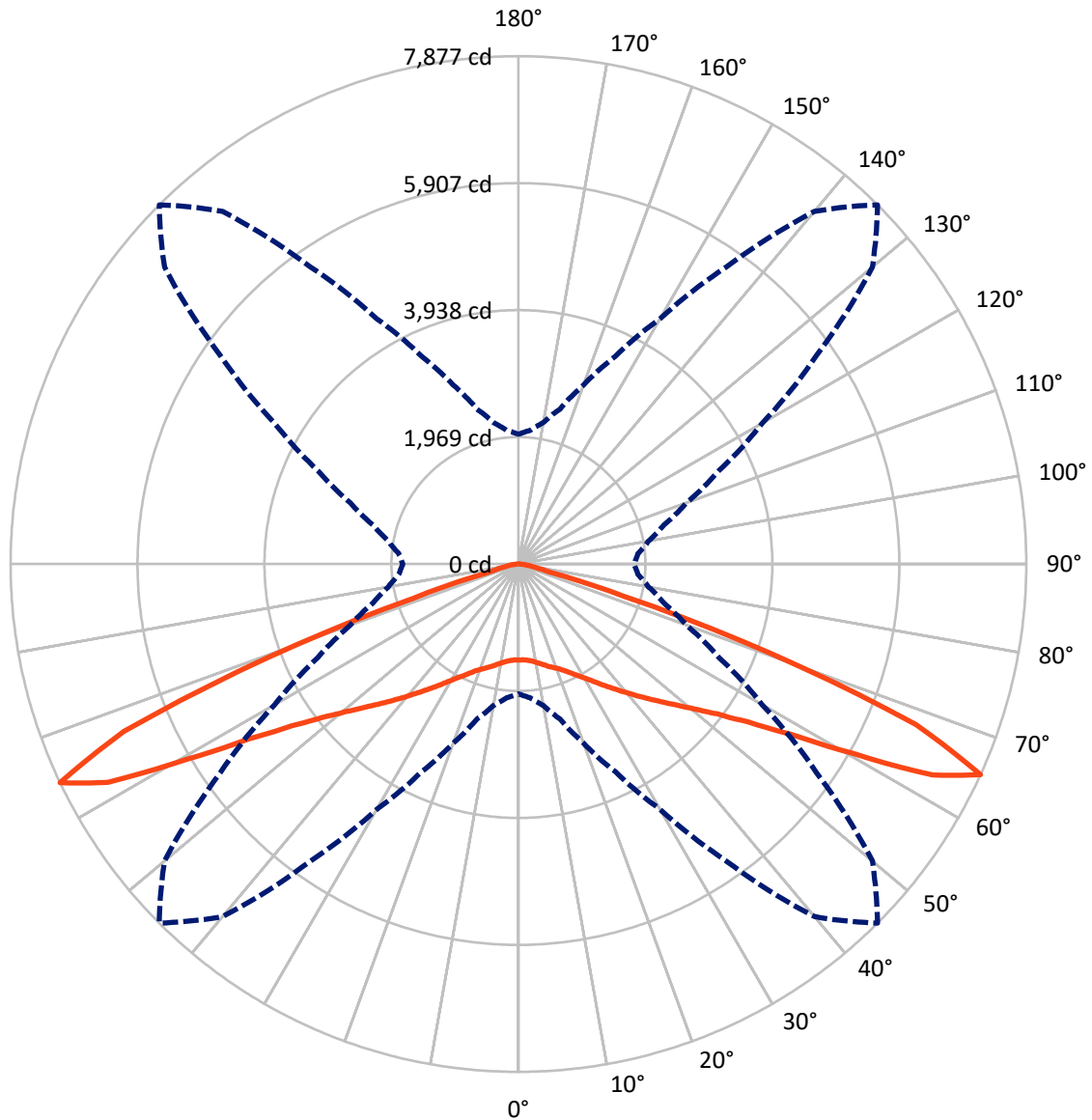


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - Full Cutoff

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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	6578.9	0.0	6578.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6578.9	0.0	6578.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13157.7	0.0	13157.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.1	1.1
10°-20°	465.4	3.5
20°-30°	870.2	6.6
30°-40°	1471.7	11.2
40°-50°	2406.5	18.3
50°-60°	3826.7	29.1
60°-70°	3459.1	26.3
70°-80°	437.8	3.3
80°-90°	75.3	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°	13157.7	100.0
0°-180°	13157.7	100.0



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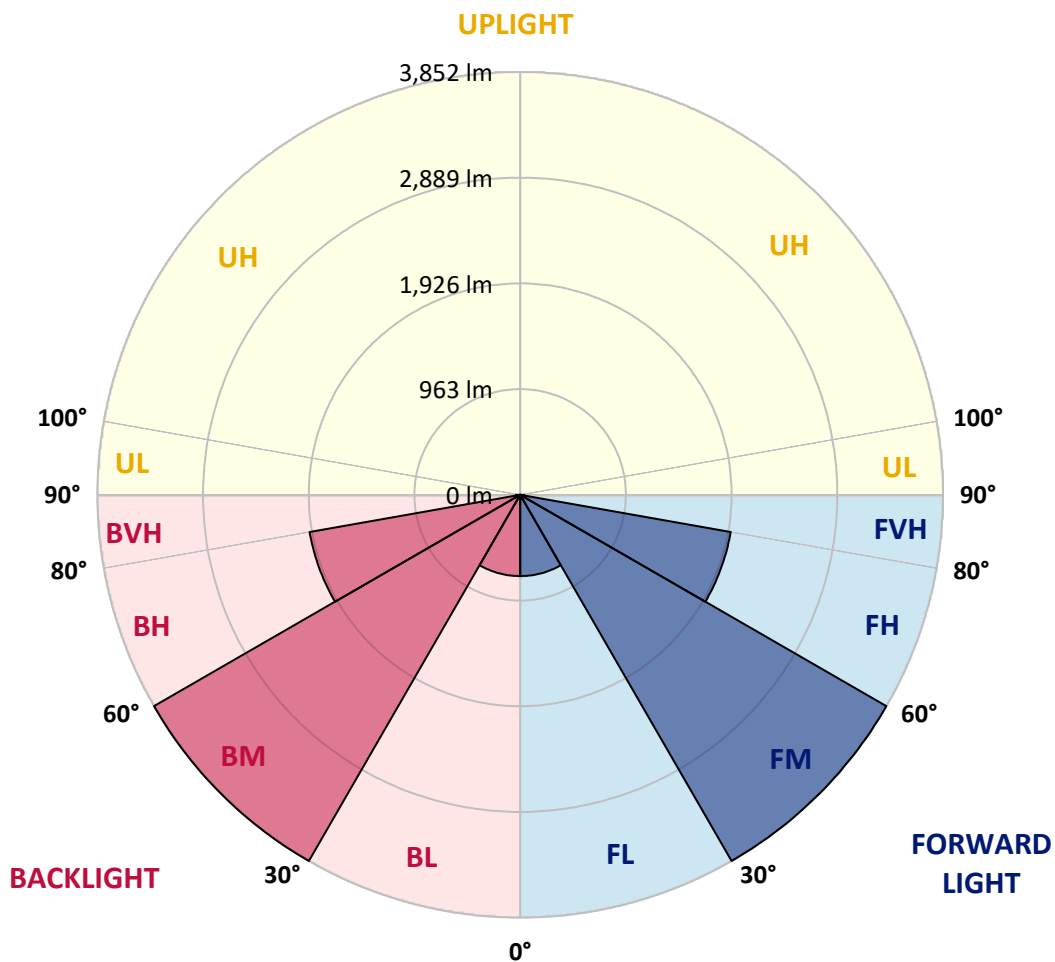
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	740.4	5.6			
FM	(30°-60°)	3852.5	29.3			
FH	(60°-80°)	1948.4	14.8			G2/5000
FVH	(80°-90°)	37.6	0.3			G1/100
BL	(0°-30°)	740.4	5.6	B2/1000		
BM	(30°-60°)	3852.5	29.3	B3/5000		
BH	(60°-80°)	1948.4	14.8	B3/2500		G2/5000
BVH	(80°-90°)	37.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1488.9	1488.9	1488.9	1488.9	1488.9	1488.9	1488.9	1488.9	1488.9	1488.9	1488.9
2.5°	1490.1	1491.2	1492.5	1491.2	1492.5	1490.6	1489.4	1491.2	1489.4	1487.6	1488.9
5°	1503.0	1503.7	1503.7	1501.7	1503.7	1502.3	1500.4	1503.0	1501.2	1499.4	1500.4
7.5°	1524.6	1526.9	1525.1	1523.3	1524.6	1523.3	1522.1	1522.6	1522.1	1520.2	1520.8
10°	1553.4	1555.3	1554.1	1553.4	1554.7	1554.1	1552.9	1552.4	1552.9	1551.1	1551.1
12.5°	1588.7	1588.1	1587.5	1588.1	1589.9	1589.9	1589.2	1589.9	1591.1	1591.6	1590.4
15°	1623.1	1624.3	1624.3	1624.3	1628.1	1631.1	1632.9	1634.2	1636.7	1637.3	1634.8
17.5°	1666.3	1666.3	1665.6	1666.3	1669.9	1674.9	1676.7	1679.2	1681.6	1683.6	1680.5
20°	1714.3	1715.6	1715.6	1716.8	1721.7	1727.4	1727.4	1728.5	1727.4	1728.5	1726.6
22.5°	1772.8	1776.6	1776.6	1777.1	1782.1	1789.0	1787.1	1789.0	1785.8	1788.3	1785.8
25°	1849.3	1854.8	1853.7	1853.7	1857.3	1861.6	1862.2	1865.9	1865.3	1868.5	1866.6
27.5°	1935.6	1944.2	1946.6	1946.1	1948.6	1952.8	1954.1	1958.3	1955.9	1958.3	1957.1
30°	2039.2	2042.7	2047.7	2049.6	2052.6	2056.9	2056.9	2057.6	2054.6	2058.1	2060.1
32.5°	2146.3	2153.1	2158.0	2169.0	2174.6	2177.8	2177.1	2178.4	2175.2	2180.1	2183.9
35°	2288.1	2293.0	2301.0	2309.6	2317.0	2316.4	2314.6	2315.1	2315.1	2319.5	2323.1
37.5°	2458.8	2460.0	2470.5	2482.7	2486.5	2482.7	2471.6	2469.3	2463.7	2469.3	2475.4
40°	2639.3	2643.6	2664.6	2672.5	2674.4	2667.6	2651.6	2642.4	2630.1	2636.9	2645.5
42.5°	2828.6	2837.0	2856.3	2870.4	2876.6	2872.2	2850.1	2835.9	2819.9	2823.6	2832.1
45°	3038.0	3048.5	3075.5	3089.1	3100.9	3094.1	3072.6	3051.0	3025.8	3027.5	3041.1
47.5°	3272.2	3282.6	3317.8	3340.5	3346.7	3345.5	3321.5	3291.8	3257.3	3256.1	3267.9
50°	3534.7	3545.2	3588.9	3624.0	3641.9	3640.0	3611.7	3569.9	3528.0	3528.5	3543.4
52.5°	3791.0	3804.0	3849.5	3910.0	3945.0	3970.4	3953.1	3913.6	3862.5	3863.7	3877.4
55°	4031.4	4053.0	4105.3	4187.3	4252.5	4323.5	4343.8	4342.5	4311.8	4320.4	4334.0
57.5°	4147.8	4179.9	4260.7	4389.9	4523.1	4667.4	4789.4	4880.5	4919.4	4977.9	4964.4
60°	3927.2	3978.4	4097.3	4287.7	4550.9	4851.6	5173.9	5488.7	5757.3	5960.2	5843.7
62.5°	3215.5	3282.0	3426.2	3670.2	4068.3	4549.6	5166.4	5910.8	6721.7	7211.1	6861.8
65°	2011.9	2081.1	2227.6	2488.9	2954.9	3553.2	4389.9	5623.7	7139.0	7876.6	7165.5
67.5°	784.5	822.0	901.5	1068.5	1418.6	1950.9	2790.9	4191.0	6003.4	6649.8	5891.8
70°	393.2	396.8	411.7	442.4	517.7	672.3	1022.9	1942.9	3442.8	4158.3	3319.0
72.5°	284.0	284.8	292.0	305.7	329.7	364.3	430.7	594.7	1119.6	1711.4	1049.4
75°	217.5	219.9	224.2	231.8	244.7	261.9	285.9	342.7	424.5	492.5	414.1
77.5°	167.7	172.6	175.6	182.4	190.4	202.1	208.9	230.4	268.1	282.2	277.9
80°	127.6	132.0	138.7	144.2	149.7	155.2	152.8	162.8	182.4	194.2	187.9
82.5°	81.3	86.2	106.0	110.9	113.4	117.0	112.7	113.4	122.0	129.4	122.0
85°	52.5	55.4	67.2	73.3	73.9	76.4	74.6	70.2	70.2	64.0	72.1
87.5°	24.1	24.7	30.3	35.8	37.0	33.2	32.7	31.4	25.2	24.1	26.0
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°	1488.9	1488.9	1488.9	1488.9	1488.9	1488.9	1488.9	1488.9
2.5°	1488.2	1489.4	1490.1	1491.8	1492.5	1492.5	1493.2	1494.3
5°	1499.9	1501.7	1502.3	1504.8	1505.4	1504.8	1506.1	1506.6
7.5°	1520.8	1524.0	1525.1	1527.7	1525.9	1528.2	1528.8	1528.8
10°	1551.6	1554.7	1555.3	1557.8	1556.7	1557.8	1557.8	1556.7
12.5°	1592.3	1593.0	1591.1	1593.0	1590.4	1591.6	1589.9	1588.7
15°	1637.3	1635.5	1631.1	1631.1	1627.5	1628.1	1627.5	1626.8
17.5°	1681.1	1677.3	1674.4	1673.1	1669.9	1669.4	1667.6	1667.6
20°	1729.1	1727.4	1725.5	1722.9	1719.8	1716.8	1716.2	1717.4
22.5°	1787.1	1786.4	1786.4	1785.2	1780.9	1777.8	1775.9	1775.9
25°	1864.7	1859.1	1859.1	1858.6	1856.6	1854.8	1851.1	1853.1
27.5°	1952.1	1949.1	1951.6	1950.9	1949.1	1949.1	1946.6	1946.6
30°	2060.1	2058.8	2062.5	2059.5	2053.3	2052.6	2050.2	2047.1
32.5°	2184.5	2183.3	2188.8	2185.1	2175.2	2169.8	2164.8	2162.3
35°	2323.1	2323.7	2330.6	2328.0	2317.0	2313.3	2304.7	2303.4
37.5°	2474.8	2484.6	2496.3	2498.7	2489.6	2487.0	2477.9	2472.9
40°	2652.9	2665.8	2683.6	2688.0	2678.1	2676.3	2663.4	2656.6
42.5°	2842.6	2864.9	2887.1	2890.7	2880.9	2871.1	2858.6	2853.7
45°	3054.6	3081.1	3110.1	3117.5	3102.7	3091.0	3075.0	3075.0
47.5°	3292.5	3325.7	3358.5	3378.7	3365.2	3353.0	3333.8	3321.5
50°	3573.5	3619.1	3661.6	3682.6	3661.0	3637.5	3604.3	3593.2
52.5°	3926.0	3975.3	4012.3	4001.2	3968.0	3935.3	3898.9	3884.1
55°	4375.9	4392.4	4392.4	4350.6	4283.9	4229.2	4171.9	4152.8
57.5°	4938.4	4874.4	4775.7	4650.6	4493.5	4356.7	4264.3	4220.5
60°	5599.7	5291.6	4943.4	4601.4	4320.4	4088.6	3951.3	3888.5
62.5°	6040.3	5234.2	4536.7	3987.5	3583.3	3304.2	3114.5	3040.5
65°	5645.3	4365.4	3431.2	2774.2	2333.6	2049.6	1861.6	1792.6
67.5°	4134.9	2735.3	1827.2	1309.5	959.5	765.4	688.3	656.3
70°	1856.1	963.2	590.4	460.9	397.5	364.8	350.6	345.7
72.5°	559.6	404.9	341.4	308.1	282.8	266.8	255.1	254.0
75°	337.8	281.0	249.5	229.8	213.8	201.0	194.8	192.9
77.5°	236.1	206.4	191.7	177.4	165.2	155.2	149.7	145.4
80°	165.7	151.6	144.7	136.8	128.7	119.6	111.5	107.8
82.5°	110.9	107.8	107.8	102.9	96.1	87.6	71.4	67.8
85°	71.4	70.8	72.1	70.2	65.3	56.1	46.3	43.7
87.5°	33.2	33.9	37.5	37.0	35.8	29.6	23.4	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)