

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: P193442

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22639 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 258
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

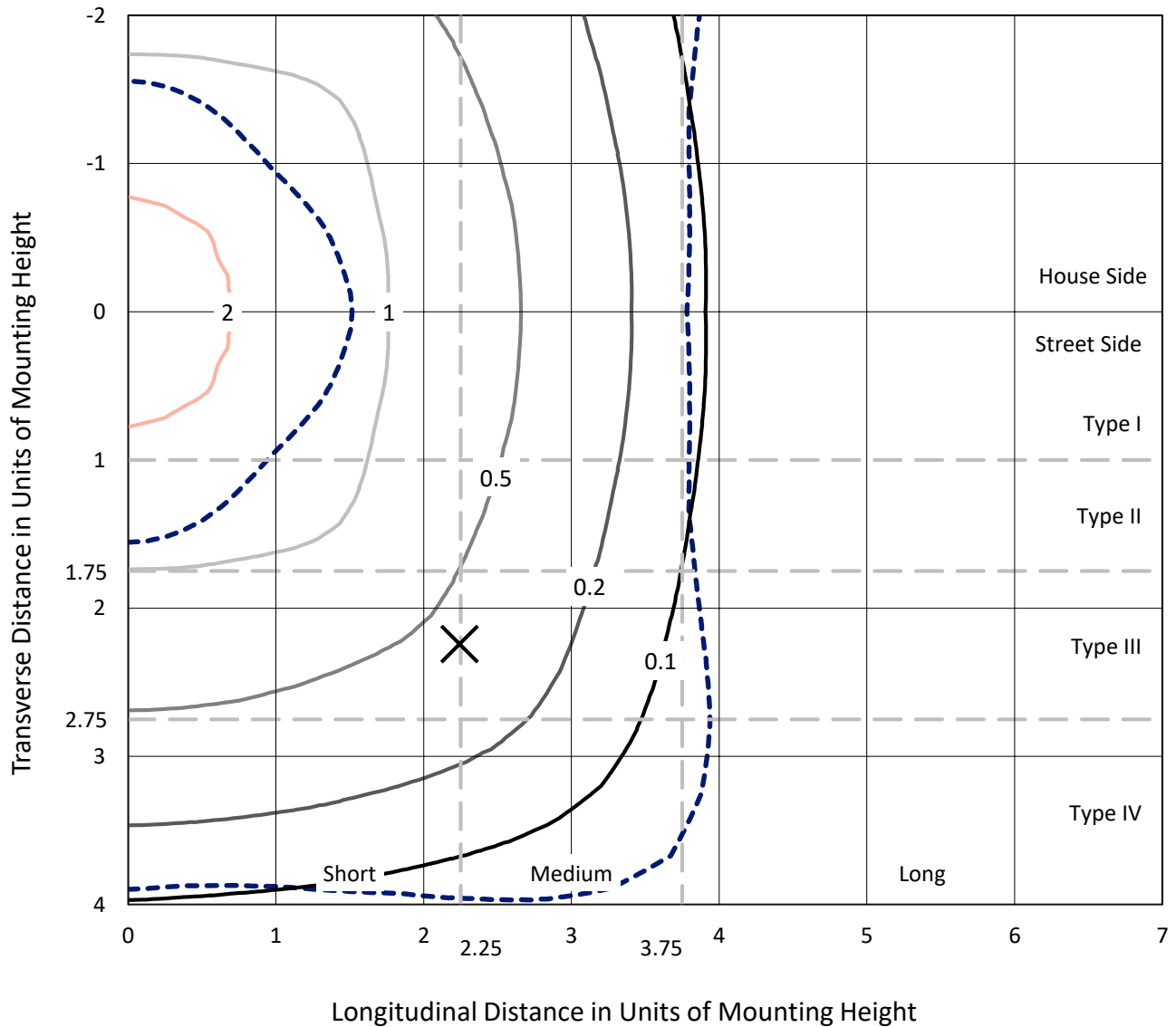


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

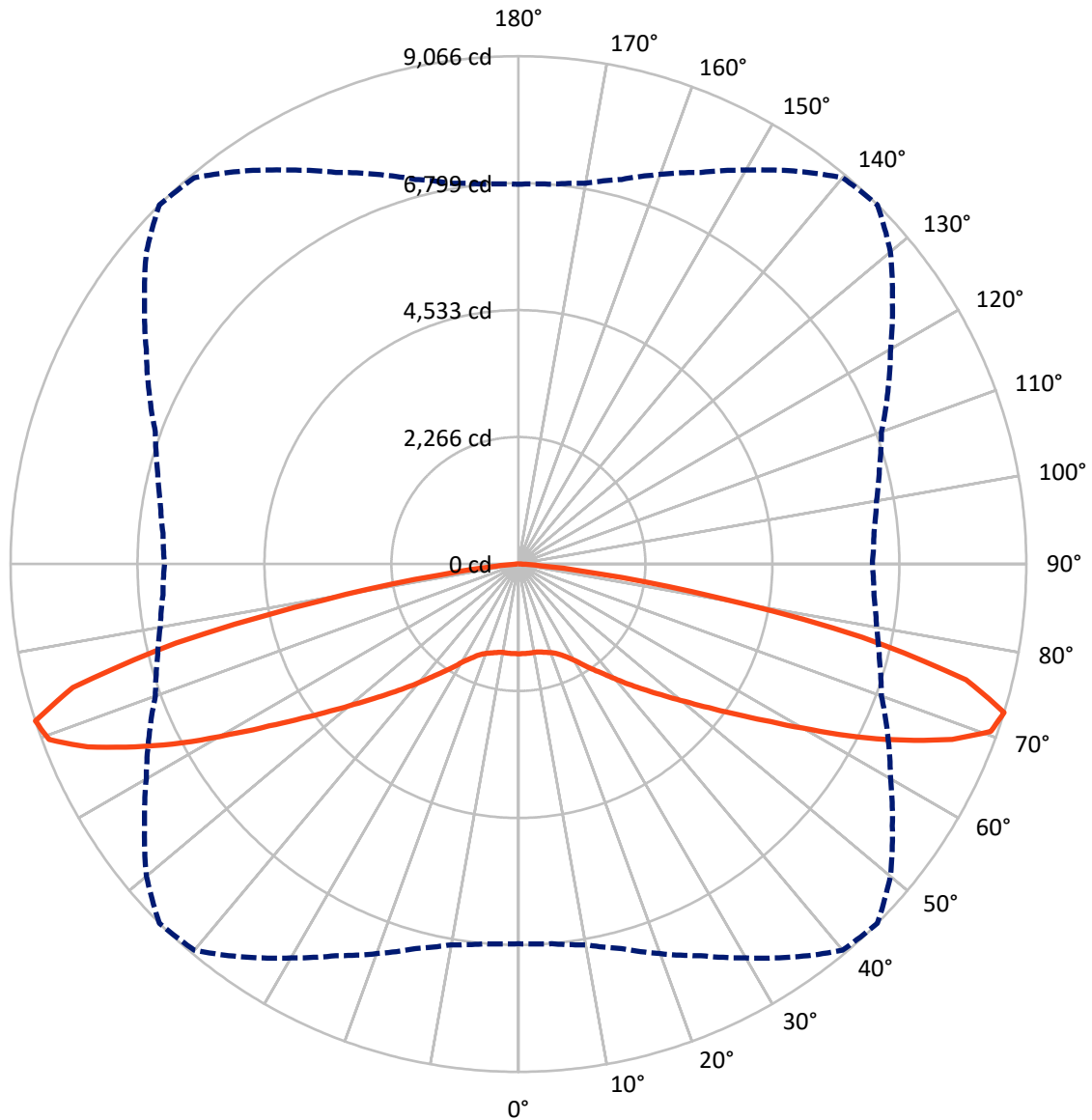


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11319.5	0.0	11319.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11319.5	0.0	11319.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22639.0	0.0	22639.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	0.7
10°-20°	464.9	2.1
20°-30°	849.6	3.8
30°-40°	1464.9	6.5
40°-50°	2504.3	11.1
50°-60°	4059.1	17.9
60°-70°	6733.9	29.7
70°-80°	5931.0	26.2
80°-90°	478.2	2.1
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°	22639.0	100.0
0°-180°	22639.0	100.0



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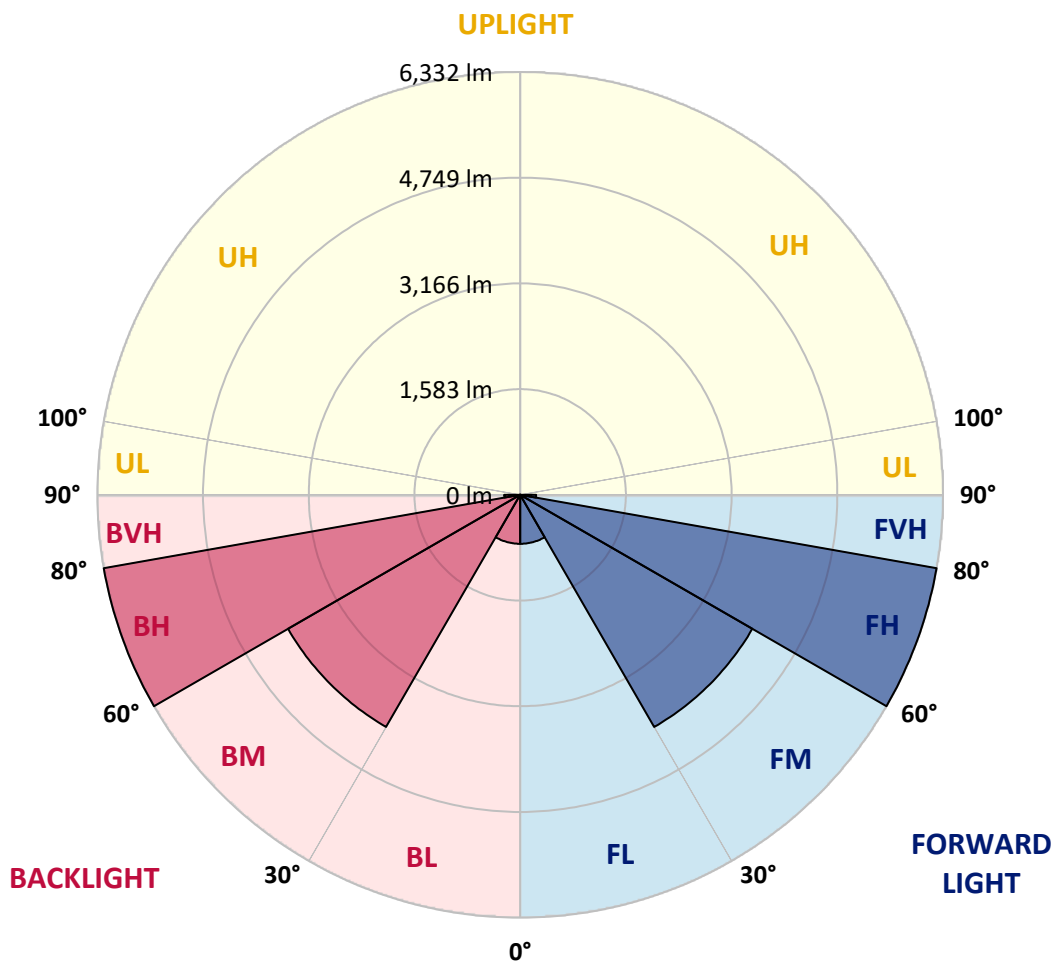
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	733.8	3.2			
FM	(30°-60°)	4014.1	17.7			
FH	(60°-80°)	6332.4	28.0			G3/7500
FVH	(80°-90°)	239.1	1.1			G3/500
BL	(0°-30°)	733.8	3.2	B2/1000		
BM	(30°-60°)	4014.1	17.7	B3/5000		
BH	(60°-80°)	6332.4	28.0	B5		G3/7500
BVH	(80°-90°)	239.1	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2
2.5°	1603.2	1604.2	1605.3	1604.2	1604.2	1603.2	1602.2	1603.2	1602.2	1600.1	1601.1
5°	1608.4	1610.5	1610.5	1608.4	1609.4	1608.4	1606.3	1607.3	1605.3	1602.2	1602.2
7.5°	1614.6	1615.7	1615.7	1613.6	1614.6	1612.5	1610.5	1609.4	1607.3	1603.2	1600.1
10°	1624.0	1625.0	1624.0	1621.9	1621.9	1618.8	1613.6	1611.5	1607.3	1601.1	1598.0
12.5°	1634.3	1635.4	1634.3	1632.3	1631.2	1626.0	1621.9	1618.8	1615.7	1610.5	1605.3
15°	1648.9	1651.0	1648.9	1644.7	1641.6	1637.5	1635.4	1636.4	1637.5	1633.3	1628.1
17.5°	1675.9	1676.9	1673.8	1664.5	1660.3	1656.1	1656.1	1658.2	1661.3	1659.3	1654.1
20°	1725.7	1722.6	1715.3	1703.9	1698.7	1691.5	1690.4	1691.5	1691.5	1690.4	1686.3
22.5°	1788.0	1785.9	1776.6	1762.1	1754.8	1750.6	1744.4	1739.2	1738.2	1735.1	1730.9
25°	1862.8	1861.7	1850.3	1837.9	1832.7	1827.5	1822.3	1815.0	1808.8	1801.5	1797.4
27.5°	1958.3	1954.2	1937.5	1931.3	1924.0	1920.9	1913.7	1905.3	1900.2	1890.8	1885.6
30°	2063.2	2063.2	2049.7	2047.6	2047.6	2040.3	2032.0	2017.5	2008.1	1998.8	1995.7
32.5°	2168.0	2169.1	2155.6	2159.7	2162.9	2168.0	2170.1	2164.9	2158.7	2157.7	2151.4
35°	2319.6	2315.5	2302.0	2305.1	2304.1	2303.0	2303.0	2314.5	2316.5	2318.6	2306.1
37.5°	2507.6	2507.6	2494.1	2494.1	2487.9	2481.6	2473.3	2480.6	2492.0	2495.1	2486.8
40°	2722.5	2729.8	2713.2	2712.1	2714.2	2694.5	2685.1	2696.6	2703.8	2716.3	2706.9
42.5°	2975.9	2970.7	2954.1	2952.0	2940.6	2934.3	2926.0	2935.4	2946.8	2955.1	2958.2
45°	3218.8	3214.7	3196.0	3196.0	3184.6	3179.4	3183.5	3199.1	3204.3	3215.7	3227.2
47.5°	3458.7	3453.5	3441.1	3446.2	3447.3	3456.6	3470.1	3484.7	3499.2	3514.8	3520.0
50°	3703.7	3704.8	3691.3	3703.7	3719.3	3745.3	3781.6	3805.5	3835.6	3855.3	3861.6
52.5°	3927.0	3931.1	3945.7	3974.8	4005.9	4056.8	4119.1	4177.2	4227.1	4260.3	4258.2
55°	4194.9	4201.1	4236.4	4286.3	4337.1	4414.0	4506.4	4609.2	4692.2	4740.0	4709.9
57.5°	4537.5	4551.0	4590.5	4658.0	4733.8	4833.5	4960.1	5114.8	5243.6	5308.0	5259.2
60°	5007.9	5016.2	5064.0	5138.7	5230.1	5353.7	5522.9	5730.6	5912.3	5997.4	5941.4
62.5°	5627.8	5643.4	5681.8	5757.6	5851.0	5991.2	6197.8	6457.4	6683.8	6802.1	6675.5
65°	6368.1	6418.0	6450.2	6527.0	6614.2	6762.7	6978.7	7256.9	7499.9	7577.8	7431.4
67.5°	7101.2	7144.8	7200.9	7289.1	7377.4	7544.6	7745.0	8014.9	8281.8	8352.4	8125.0
70°	7422.0	7447.0	7534.2	7654.6	7823.9	8021.2	8252.7	8555.9	8886.1	8944.2	8655.6
72.5°	6779.3	6804.2	6901.8	7106.4	7401.3	7714.8	8118.8	8564.2	9000.3	9065.7	8668.0
75°	5127.3	5086.8	5231.1	5502.1	5899.8	6337.0	6901.8	7540.4	8170.7	8252.7	7778.2
77.5°	2649.8	2644.6	2753.7	3090.1	3564.6	4062.0	4683.9	5405.6	6022.4	6271.6	5885.3
80°	746.6	754.9	806.8	974.0	1251.2	1610.5	2096.4	2772.4	3277.0	3534.5	3318.5
82.5°	292.8	315.7	335.4	366.5	402.9	455.8	608.5	905.4	1214.9	1451.6	1188.9
85°	104.9	112.1	158.9	187.9	191.1	201.4	229.5	267.9	322.9	385.2	316.7
87.5°	39.5	43.6	50.9	84.1	83.1	75.8	92.4	96.6	72.7	66.5	82.0
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°	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2	1603.2
2.5°	1599.0	1600.1	1600.1	1601.1	1602.2	1602.2	1604.2	1604.2
5°	1600.1	1600.1	1598.0	1599.0	1598.0	1598.0	1599.0	1599.0
7.5°	1598.0	1597.0	1594.9	1593.8	1591.8	1591.8	1591.8	1591.8
10°	1594.9	1593.8	1591.8	1590.7	1589.7	1589.7	1589.7	1589.7
12.5°	1603.2	1600.1	1598.0	1597.0	1597.0	1597.0	1597.0	1597.0
15°	1625.0	1617.7	1612.5	1612.5	1613.6	1615.7	1615.7	1617.7
17.5°	1652.0	1643.7	1638.5	1634.3	1636.4	1639.5	1641.6	1643.7
20°	1684.2	1680.0	1672.8	1668.6	1668.6	1672.8	1674.8	1675.9
22.5°	1728.8	1725.7	1722.6	1717.4	1717.4	1719.5	1723.6	1723.6
25°	1795.3	1793.2	1791.1	1787.0	1785.9	1785.9	1788.0	1790.1
27.5°	1878.4	1879.4	1877.3	1876.3	1873.2	1872.1	1875.2	1874.2
30°	1989.5	1994.6	1999.8	1995.7	1990.5	1987.4	1984.3	1980.1
32.5°	2140.0	2133.8	2129.6	2122.4	2113.0	2104.7	2098.5	2091.2
35°	2282.3	2271.9	2267.7	2274.0	2272.9	2267.7	2260.5	2254.2
37.5°	2456.7	2454.6	2456.7	2468.1	2466.1	2471.2	2456.7	2455.7
40°	2676.8	2678.9	2693.4	2706.9	2714.2	2721.5	2713.2	2704.9
42.5°	2932.3	2931.2	2936.4	2955.1	2967.6	2975.9	2958.2	2956.1
45°	3202.2	3195.0	3199.1	3214.7	3227.2	3236.5	3216.8	3216.8
47.5°	3499.2	3486.7	3473.2	3490.9	3498.2	3504.4	3488.8	3483.6
50°	3830.4	3804.5	3775.4	3782.7	3782.7	3780.6	3760.9	3759.8
52.5°	4210.5	4162.7	4109.7	4090.0	4078.6	4066.1	4031.9	4015.3
55°	4647.6	4576.0	4492.9	4442.0	4415.0	4380.7	4323.6	4308.1
57.5°	5158.5	5046.3	4903.0	4840.7	4780.5	4724.4	4661.1	4643.4
60°	5763.8	5598.7	5408.7	5293.4	5228.0	5174.0	5108.6	5105.5
62.5°	6438.7	6178.1	5963.2	5859.3	5811.6	5763.8	5701.5	5709.8
65°	7125.1	6853.0	6651.6	6567.5	6522.8	6483.4	6421.1	6430.4
67.5°	7802.1	7551.8	7330.7	7244.5	7194.6	7144.8	7088.7	7098.1
70°	8288.0	7977.5	7728.3	7537.3	7417.9	7282.9	7195.7	7173.9
72.5°	8148.9	7670.2	7274.6	6895.6	6673.4	6492.7	6370.2	6317.2
75°	7052.4	6398.2	5889.4	5424.3	5162.6	4949.8	4795.0	4698.5
77.5°	5237.4	4502.2	3901.0	3365.3	2941.6	2657.1	2456.7	2326.9
80°	2866.8	2180.5	1593.8	1120.4	823.4	684.3	604.3	565.9
82.5°	893.0	576.3	424.7	366.5	340.6	326.0	302.2	263.7
85°	284.5	249.2	231.5	221.2	210.8	183.8	126.7	115.3
87.5°	110.1	113.2	112.1	105.9	108.0	77.9	62.3	55.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)