

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: P190860

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190860
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-02-LED-E1-5NQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 14097.3 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

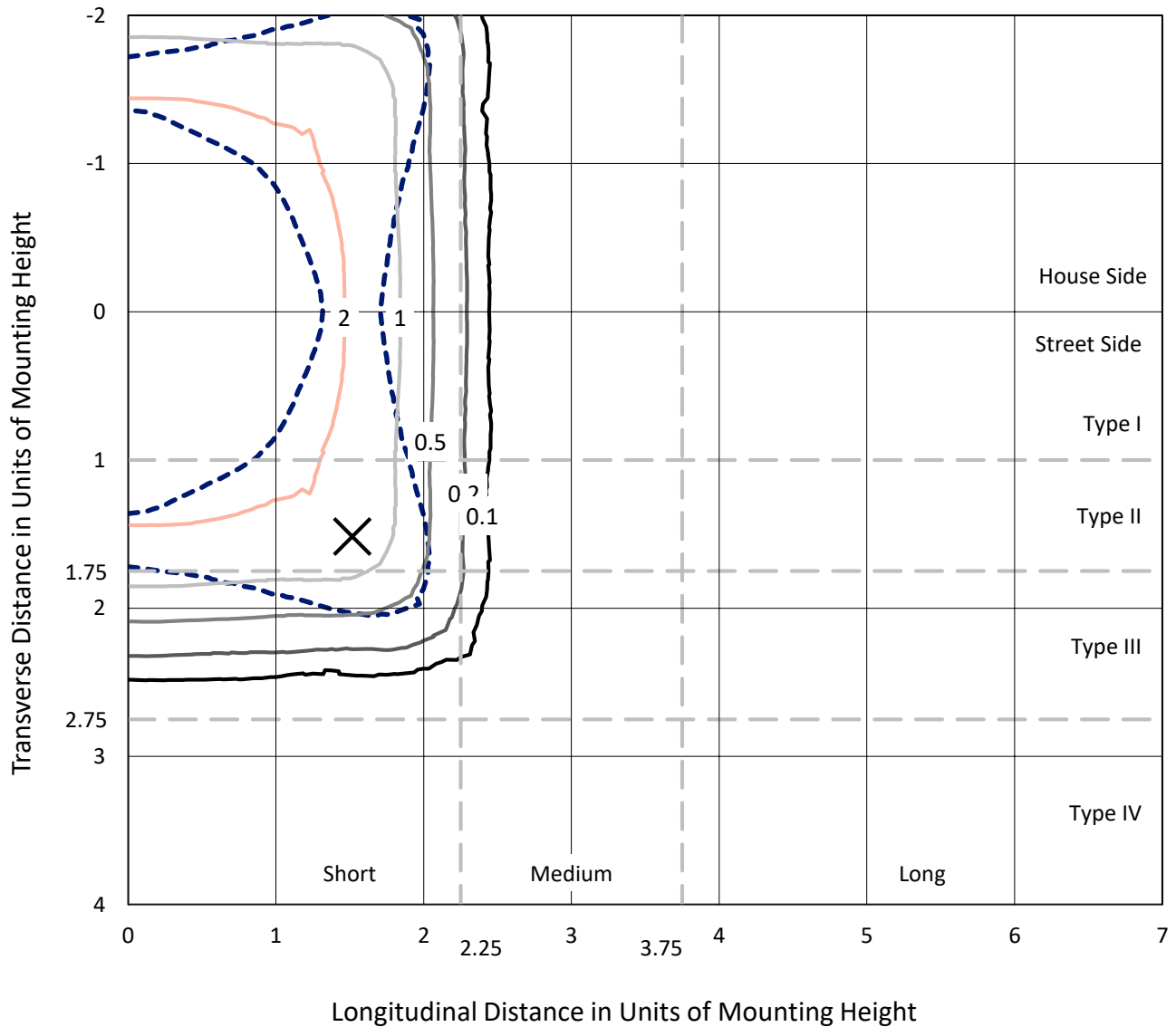
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

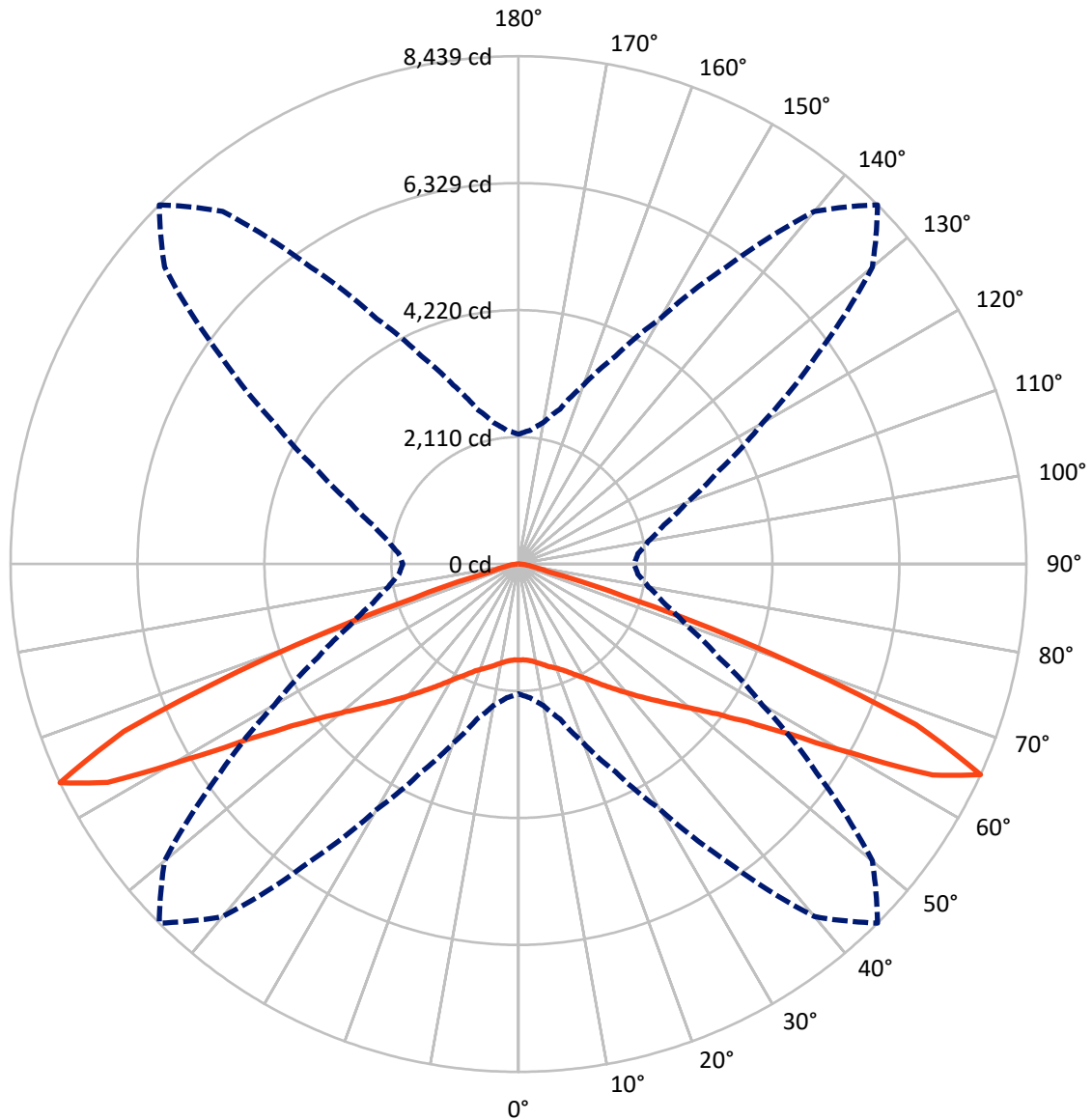
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	7048.6	0.0	7048.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7048.6	0.0	7048.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	14097.3	0.0	14097.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	1.1
10°-20°	498.6	3.5
20°-30°	932.3	6.6
30°-40°	1576.8	11.2
40°-50°	2578.3	18.3
50°-60°	4099.9	29.1
60°-70°	3706.1	26.3
70°-80°	469.0	3.3
80°-90°	80.7	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°	14097.3	100.0
0°-180°	14097.3	100.0



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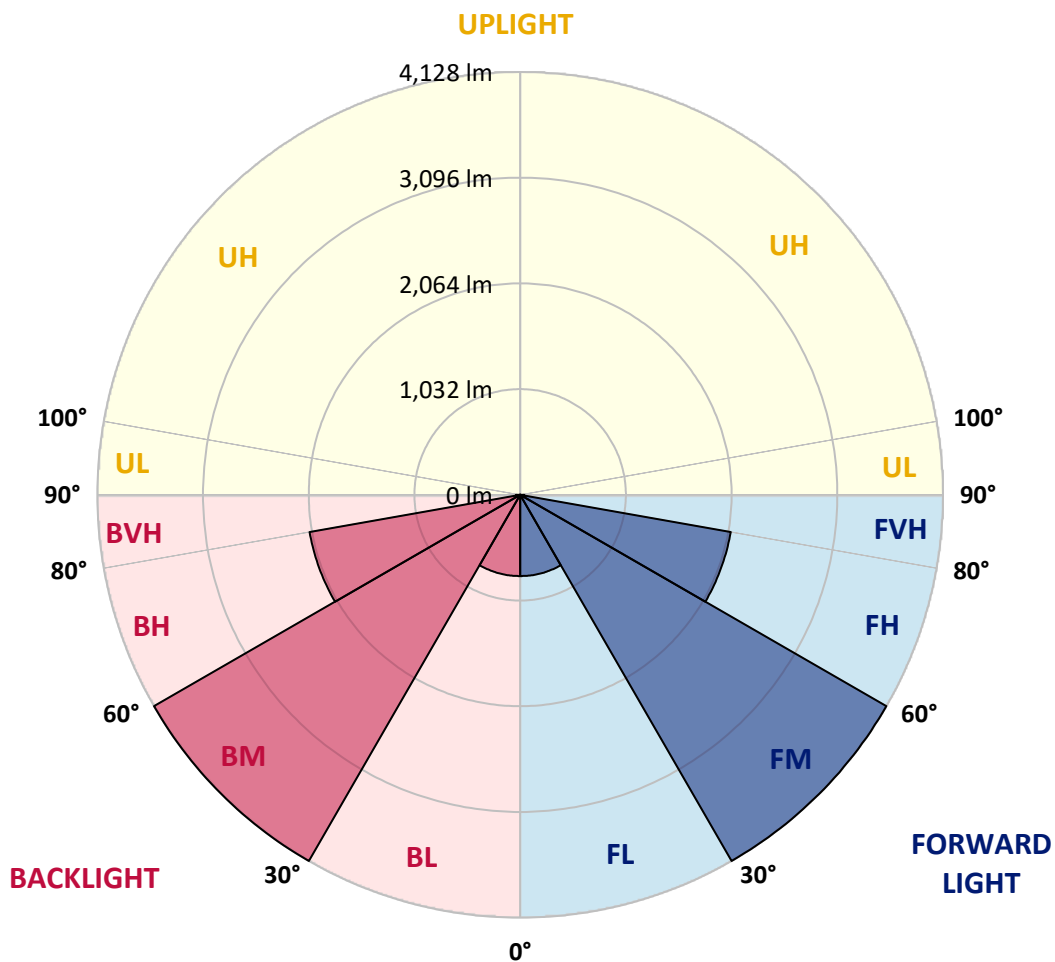
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	793.2	5.6			
FM	(30°-60°)	4127.5	29.3			
FH	(60°-80°)	2087.5	14.8			G2/5000
FVH	(80°-90°)	40.3	0.3			G1/100
BL	(0°-30°)	793.2	5.6	B2/1000		
BM	(30°-60°)	4127.5	29.3	B3/5000		
BH	(60°-80°)	2087.5	14.8	B3/2500		G2/5000
BVH	(80°-90°)	40.3	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°	1595.1	1595.1	1595.1	1595.1	1595.1	1595.1	1595.1	1595.1	1595.1	1595.1	1595.1
2.5°	1596.4	1597.7	1599.1	1597.7	1599.1	1597.1	1595.8	1597.7	1595.8	1593.8	1595.1
5°	1610.3	1610.9	1610.9	1609.0	1610.9	1609.6	1607.7	1610.3	1608.3	1606.3	1607.7
7.5°	1633.4	1636.0	1634.1	1632.1	1633.4	1632.1	1630.8	1631.4	1630.8	1628.7	1629.5
10°	1664.4	1666.4	1665.1	1664.4	1665.8	1665.1	1663.8	1663.1	1663.8	1661.8	1661.8
12.5°	1702.1	1701.4	1700.8	1701.4	1703.4	1703.4	1702.7	1703.4	1704.7	1705.4	1704.0
15°	1739.0	1740.3	1740.3	1740.3	1744.3	1747.6	1749.7	1750.9	1753.5	1754.3	1751.6
17.5°	1785.3	1785.3	1784.6	1785.3	1789.2	1794.5	1796.5	1799.2	1801.7	1803.8	1800.5
20°	1836.8	1838.0	1838.0	1839.4	1844.7	1850.6	1850.6	1852.0	1850.6	1852.0	1850.0
22.5°	1899.5	1903.4	1903.4	1904.1	1909.3	1916.6	1914.7	1916.6	1913.3	1916.0	1913.3
25°	1981.4	1987.3	1986.0	1986.0	1989.9	1994.5	1995.3	1999.2	1998.5	2001.8	1999.9
27.5°	2073.8	2083.0	2085.7	2085.0	2087.6	2092.2	2093.6	2098.2	2095.6	2098.2	2096.8
30°	2184.7	2188.7	2193.9	2196.0	2199.2	2203.8	2203.8	2204.5	2201.2	2205.2	2207.1
32.5°	2299.6	2306.9	2312.2	2324.0	2330.0	2333.2	2332.6	2333.9	2330.6	2335.9	2339.9
35°	2451.4	2456.7	2465.3	2474.5	2482.5	2481.8	2479.8	2480.5	2480.5	2485.1	2489.0
37.5°	2634.3	2635.6	2646.9	2660.1	2664.1	2660.1	2648.2	2645.6	2639.6	2645.6	2652.1
40°	2827.7	2832.3	2854.9	2863.4	2865.4	2858.1	2840.9	2831.0	2817.8	2825.1	2834.4
42.5°	3030.5	3039.7	3060.2	3075.4	3081.9	3077.3	3053.6	3038.4	3021.2	3025.2	3034.4
45°	3254.9	3266.2	3295.2	3309.8	3322.2	3315.0	3291.9	3268.8	3241.7	3243.7	3258.2
47.5°	3505.9	3517.0	3554.7	3579.1	3585.7	3584.4	3558.6	3526.9	3490.0	3488.7	3501.2
50°	3787.1	3798.3	3845.2	3882.8	3901.9	3900.0	3869.6	3824.7	3779.8	3780.5	3796.3
52.5°	4061.7	4075.6	4124.4	4189.2	4226.8	4253.8	4235.4	4193.1	4138.3	4139.7	4154.2
55°	4319.2	4342.3	4398.5	4486.3	4556.2	4632.1	4653.9	4652.7	4619.6	4628.9	4643.4
57.5°	4444.0	4478.4	4564.8	4703.5	4846.1	5000.6	5131.3	5229.0	5270.7	5333.4	5318.8
60°	4207.6	4262.4	4389.9	4593.9	4875.8	5198.0	5543.3	5880.6	6168.5	6385.8	6261.0
62.5°	3445.1	3516.4	3670.9	3932.3	4358.8	4874.5	5535.4	6332.9	7201.8	7726.0	7351.6
65°	2155.7	2229.6	2386.7	2666.6	3165.8	3806.9	4703.5	6025.3	7648.8	8439.0	7677.1
67.5°	840.5	880.8	965.9	1144.9	1519.8	2090.3	2990.2	4490.2	6432.0	7124.5	6312.4
70°	421.3	425.1	441.0	474.0	554.6	720.3	1096.0	2081.7	3688.7	4455.3	3556.0
72.5°	304.3	305.0	312.9	327.4	353.2	390.2	461.5	637.1	1199.6	1833.4	1124.3
75°	233.0	235.7	240.3	248.3	262.1	280.6	306.4	367.1	454.9	527.5	443.7
77.5°	179.6	184.8	188.1	195.4	204.0	216.6	223.8	246.9	287.2	302.4	297.8
80°	136.7	141.3	148.5	154.5	160.4	166.3	163.8	174.3	195.4	208.0	201.4
82.5°	87.2	92.5	113.5	118.9	121.5	125.4	120.8	121.5	130.7	138.6	130.7
85°	56.2	59.4	72.0	78.6	79.3	81.8	79.9	75.3	75.3	68.6	77.2
87.5°	25.8	26.4	32.3	38.3	39.6	35.7	35.0	33.7	27.1	25.8	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°	1595.1	1595.1	1595.1	1595.1	1595.1	1595.1	1595.1	1595.1
2.5°	1594.5	1595.8	1596.4	1598.5	1599.1	1599.1	1599.7	1601.0
5°	1607.0	1609.0	1609.6	1612.3	1613.0	1612.3	1613.6	1614.2
7.5°	1629.5	1632.7	1634.1	1636.7	1634.8	1637.3	1638.1	1638.1
10°	1662.5	1665.8	1666.4	1669.0	1667.7	1669.0	1669.0	1667.7
12.5°	1706.1	1706.7	1704.7	1706.7	1704.0	1705.4	1703.4	1702.1
15°	1754.3	1752.2	1747.6	1747.6	1743.6	1744.3	1743.6	1743.0
17.5°	1801.1	1797.1	1793.8	1792.5	1789.2	1788.5	1786.6	1786.6
20°	1852.6	1850.6	1848.7	1846.0	1842.7	1839.4	1838.8	1840.1
22.5°	1914.7	1914.0	1914.0	1912.7	1908.1	1904.7	1902.8	1902.8
25°	1997.8	1991.9	1991.9	1991.3	1989.2	1987.3	1983.3	1985.3
27.5°	2091.6	2088.4	2090.9	2090.3	2088.4	2088.4	2085.7	2085.7
30°	2207.1	2205.8	2209.8	2206.5	2199.9	2199.2	2196.6	2193.3
32.5°	2340.5	2339.2	2345.1	2341.1	2330.6	2324.7	2319.4	2316.8
35°	2489.0	2489.8	2497.0	2494.4	2482.5	2478.5	2469.3	2468.0
37.5°	2651.5	2662.0	2674.6	2677.3	2667.3	2664.7	2654.8	2649.5
40°	2842.3	2856.2	2875.3	2879.9	2869.4	2867.3	2853.5	2846.3
42.5°	3045.6	3069.4	3093.2	3097.2	3086.5	3076.0	3062.8	3057.5
45°	3272.7	3301.2	3332.2	3340.1	3324.3	3311.7	3294.5	3294.5
47.5°	3527.6	3563.2	3598.2	3620.0	3605.5	3592.3	3571.8	3558.6
50°	3828.7	3877.5	3923.1	3945.5	3922.4	3897.3	3861.6	3849.8
52.5°	4206.4	4259.2	4298.7	4286.9	4251.2	4216.2	4177.3	4161.5
55°	4688.3	4706.1	4706.1	4661.2	4589.9	4531.2	4469.8	4449.3
57.5°	5291.1	5222.4	5116.8	4982.8	4814.4	4667.8	4568.8	4522.0
60°	5999.5	5669.4	5296.3	4929.9	4628.9	4380.6	4233.4	4166.1
62.5°	6471.6	5608.0	4860.7	4272.4	3839.2	3540.1	3336.8	3257.6
65°	6048.4	4677.0	3676.2	2972.4	2500.3	2196.0	1994.5	1920.6
67.5°	4430.1	2930.8	1957.6	1403.0	1028.0	820.0	737.4	703.2
70°	1988.6	1032.0	632.5	493.9	425.9	390.9	375.6	370.4
72.5°	599.4	433.7	365.8	330.1	303.0	285.9	273.3	272.0
75°	361.8	301.1	267.4	246.2	229.1	215.2	208.7	206.6
77.5°	252.9	221.2	205.3	190.2	177.0	166.3	160.4	155.8
80°	177.6	162.4	155.2	146.6	138.0	128.1	119.5	115.5
82.5°	118.9	115.5	115.5	110.3	103.0	93.7	76.6	72.6
85°	76.6	75.9	77.2	75.3	70.0	60.0	49.5	46.9
87.5°	35.7	36.3	40.3	39.6	38.3	31.7	25.1	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)