

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: P190850

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190850
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12851.3 lumens
Efficiency: N/A
Efficacy: 113.7 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): 113
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

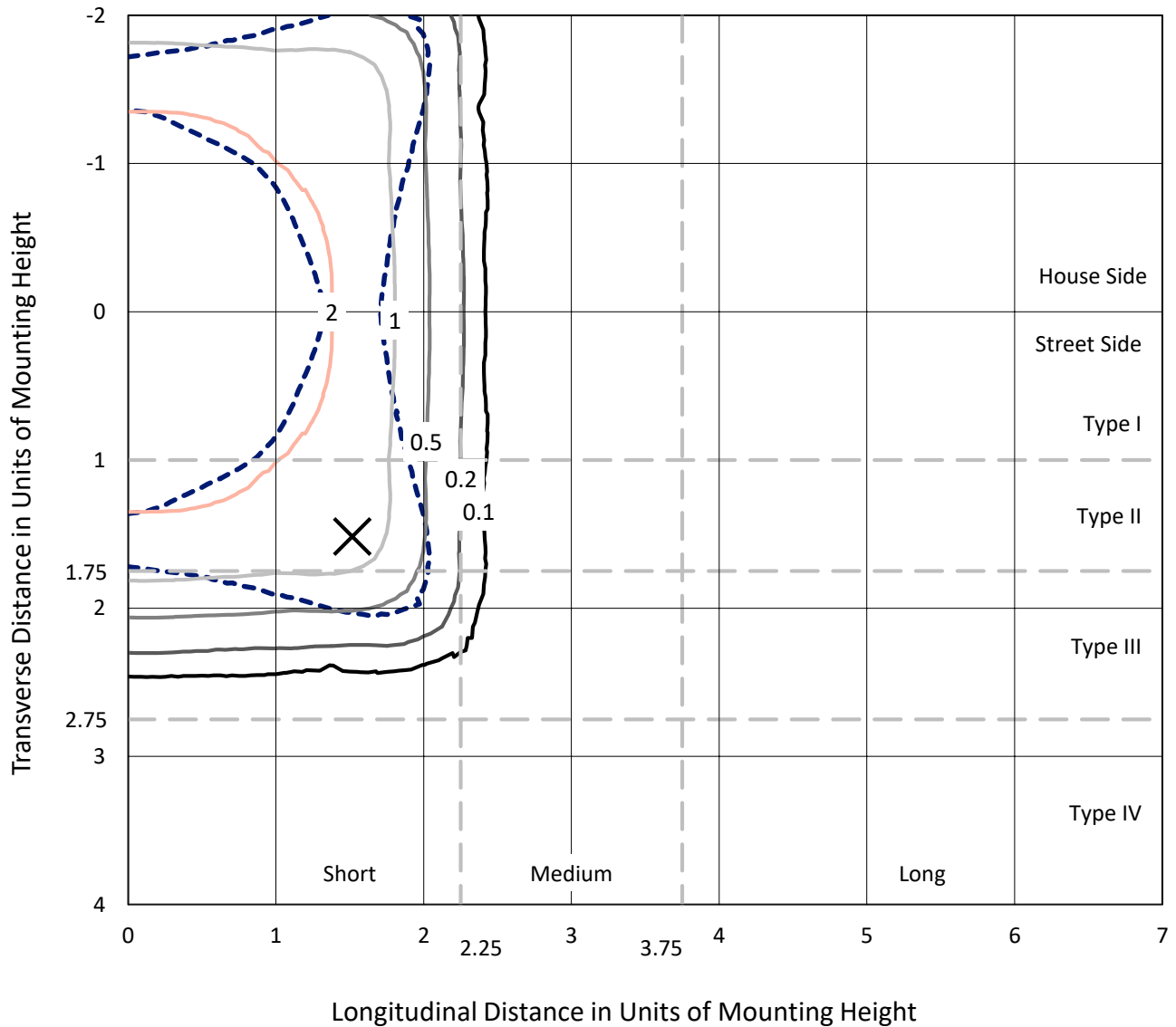


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Iso-Footcandle Lines of Horizontal Illumination

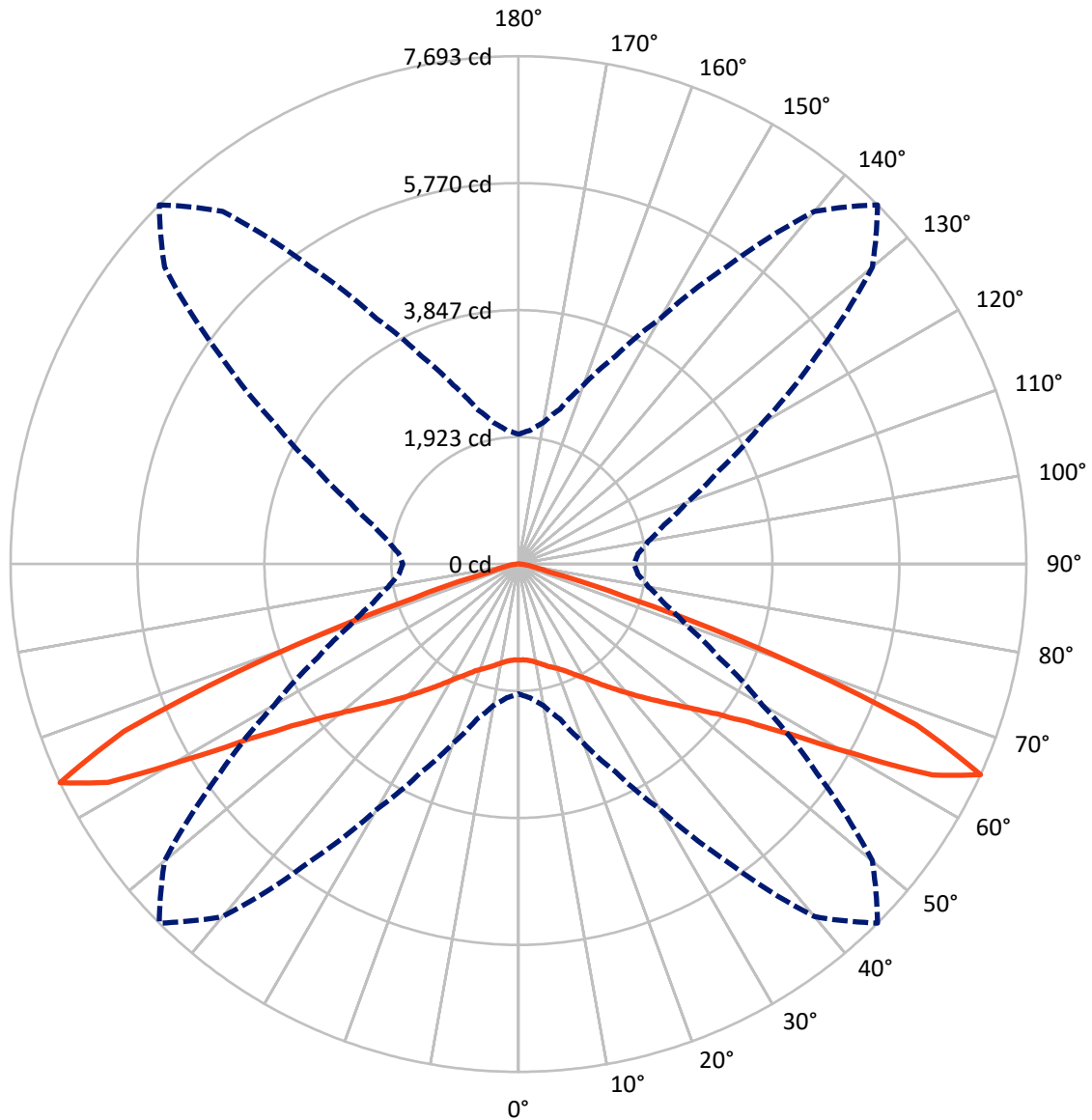
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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	6425.7	0.0	6425.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6425.7	0.0	6425.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	12851.3	0.0	12851.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.1
10°-20°	454.6	3.5
20°-30°	849.9	6.6
30°-40°	1437.5	11.2
40°-50°	2350.4	18.3
50°-60°	3737.6	29.1
60°-70°	3378.5	26.3
70°-80°	427.6	3.3
80°-90°	73.6	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°	12851.3	100.0
0°-180°	12851.3	100.0



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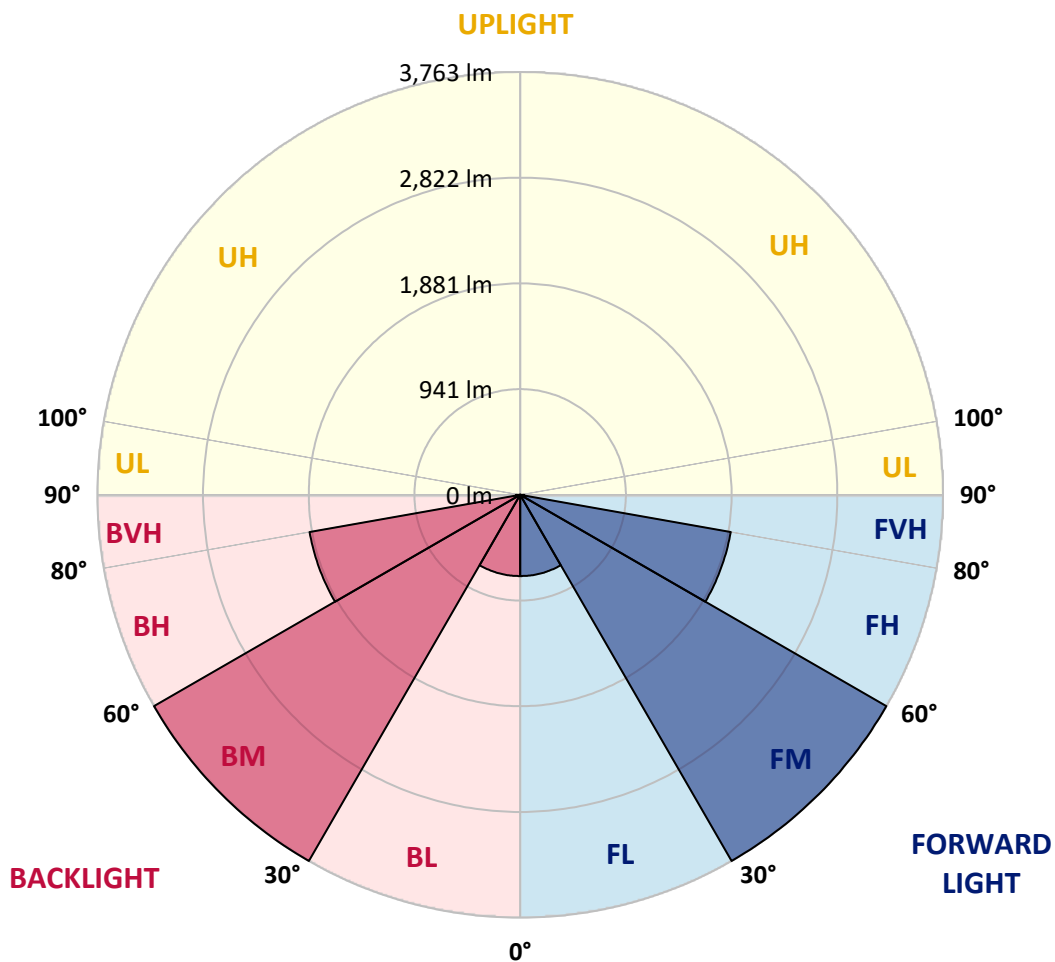
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	723.1	5.6			
FM	(30°-60°)	3762.7	29.3			
FH	(60°-80°)	1903.0	14.8			G2/5000
FVH	(80°-90°)	36.8	0.3			G1/100
BL	(0°-30°)	723.1	5.6	B2/1000		
BM	(30°-60°)	3762.7	29.3	B3/5000		
BH	(60°-80°)	1903.0	14.8	B3/2500		G2/5000
BVH	(80°-90°)	36.8	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°	1454.1	1454.1	1454.1	1454.1	1454.1	1454.1	1454.1	1454.1	1454.1	1454.1	1454.1
2.5°	1455.4	1456.6	1457.7	1456.6	1457.7	1456.0	1454.7	1456.6	1454.7	1452.9	1454.1
5°	1467.9	1468.5	1468.5	1466.8	1468.5	1467.4	1465.6	1467.9	1466.2	1464.4	1465.6
7.5°	1489.0	1491.5	1489.6	1487.9	1489.0	1487.9	1486.7	1487.3	1486.7	1484.8	1485.4
10°	1517.3	1519.2	1518.0	1517.3	1518.6	1518.0	1516.7	1516.1	1516.7	1514.9	1514.9
12.5°	1551.6	1551.0	1550.4	1551.0	1552.8	1552.8	1552.2	1552.8	1554.1	1554.7	1553.5
15°	1585.4	1586.6	1586.6	1586.6	1590.2	1593.1	1595.0	1596.2	1598.6	1599.2	1596.8
17.5°	1627.5	1627.5	1626.9	1627.5	1631.1	1635.9	1637.7	1640.1	1642.6	1644.3	1641.3
20°	1674.5	1675.6	1675.6	1676.8	1681.6	1687.1	1687.1	1688.3	1687.1	1688.3	1686.4
22.5°	1731.7	1735.2	1735.2	1735.8	1740.7	1747.2	1745.5	1747.2	1744.2	1746.7	1744.2
25°	1806.2	1811.6	1810.4	1810.4	1814.1	1818.3	1818.9	1822.5	1821.9	1824.8	1823.1
27.5°	1890.5	1898.9	1901.4	1900.7	1903.1	1907.4	1908.5	1912.8	1910.4	1912.8	1911.6
30°	1991.6	1995.3	2000.1	2001.8	2004.9	2009.1	2009.1	2009.7	2006.6	2010.3	2012.0
32.5°	2096.3	2103.0	2107.8	2118.6	2124.1	2127.0	2126.4	2127.6	2124.7	2129.5	2133.1
35°	2234.7	2239.5	2247.4	2255.8	2263.1	2262.5	2260.6	2261.2	2261.2	2265.4	2269.1
37.5°	2401.5	2402.7	2412.9	2425.0	2428.6	2425.0	2414.2	2411.7	2406.3	2411.7	2417.7
40°	2577.8	2582.0	2602.5	2610.4	2612.1	2605.6	2589.9	2580.8	2568.8	2575.4	2583.9
42.5°	2762.6	2771.1	2789.7	2803.5	2809.5	2805.3	2783.7	2769.8	2754.2	2757.8	2766.3
45°	2967.3	2977.5	3004.0	3017.2	3028.7	3022.0	3000.9	2979.9	2955.2	2957.0	2970.2
47.5°	3196.0	3206.2	3240.5	3262.8	3268.8	3267.6	3244.1	3215.2	3181.5	3180.4	3191.7
50°	3452.4	3462.6	3505.3	3539.6	3557.1	3555.3	3527.6	3486.6	3445.7	3446.3	3460.7
52.5°	3702.8	3715.4	3760.0	3818.9	3853.3	3877.9	3861.0	3822.6	3772.5	3773.8	3787.0
55°	3937.4	3958.5	4009.7	4089.8	4153.6	4222.7	4242.6	4241.5	4211.3	4219.8	4233.0
57.5°	4051.2	4082.5	4161.4	4287.8	4417.8	4558.6	4677.7	4766.8	4804.8	4862.0	4848.7
60°	3835.8	3885.7	4001.9	4187.9	4444.8	4738.6	5053.4	5360.9	5623.4	5821.3	5707.6
62.5°	3140.6	3205.6	3346.5	3584.8	3973.6	4443.7	5046.1	5773.2	6565.3	7043.1	6701.9
65°	1965.1	2032.5	2175.8	2430.9	2886.1	3470.5	4287.8	5492.7	6972.7	7693.2	6998.6
67.5°	766.2	802.9	880.6	1043.6	1385.5	1905.6	2725.9	4093.3	5863.5	6494.8	5754.5
70°	384.0	387.6	402.0	432.2	505.5	656.6	999.1	1897.7	3362.6	4061.4	3241.7
72.5°	277.4	278.0	285.3	298.5	322.0	355.7	420.7	580.8	1093.6	1671.4	1025.0
75°	212.5	214.8	219.1	226.3	239.0	255.8	279.3	334.6	414.7	480.9	404.5
77.5°	163.7	168.5	171.5	178.2	186.0	197.4	204.1	225.2	261.8	275.7	271.5
80°	124.6	128.8	135.4	140.9	146.3	151.7	149.2	158.9	178.2	189.6	183.6
82.5°	79.5	84.3	103.5	108.3	110.8	114.4	110.2	110.8	119.2	126.4	119.2
85°	51.1	54.2	65.6	71.6	72.2	74.7	72.8	68.6	68.6	62.6	70.4
87.5°	23.4	24.0	29.5	34.9	36.1	32.5	31.9	30.7	24.7	23.4	25.3
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°	1454.1	1454.1	1454.1	1454.1	1454.1	1454.1	1454.1	1454.1
2.5°	1453.5	1454.7	1455.4	1457.2	1457.7	1457.7	1458.3	1459.5
5°	1465.0	1466.8	1467.4	1469.8	1470.4	1469.8	1471.0	1471.6
7.5°	1485.4	1488.4	1489.6	1492.1	1490.2	1492.7	1493.3	1493.3
10°	1515.5	1518.6	1519.2	1521.5	1520.3	1521.5	1521.5	1520.3
12.5°	1555.3	1555.8	1554.1	1555.8	1553.5	1554.7	1552.8	1551.6
15°	1599.2	1597.3	1593.1	1593.1	1589.6	1590.2	1589.6	1588.9
17.5°	1641.9	1638.4	1635.3	1634.1	1631.1	1630.5	1628.6	1628.6
20°	1688.9	1687.1	1685.2	1682.9	1679.9	1676.8	1676.2	1677.4
22.5°	1745.5	1744.8	1744.8	1743.6	1739.4	1736.5	1734.6	1734.6
25°	1821.3	1815.8	1815.8	1815.2	1813.5	1811.6	1808.1	1809.8
27.5°	1906.8	1903.7	1906.2	1905.6	1903.7	1903.7	1901.4	1901.4
30°	2012.0	2010.9	2014.5	2011.4	2005.5	2004.9	2002.4	1999.5
32.5°	2133.7	2132.4	2137.9	2134.3	2124.7	2119.2	2114.4	2112.0
35°	2269.1	2269.7	2276.3	2273.9	2263.1	2259.5	2251.0	2249.8
37.5°	2417.1	2426.7	2438.2	2440.7	2431.6	2429.2	2420.1	2415.3
40°	2591.0	2603.7	2621.2	2625.4	2615.8	2613.9	2601.3	2594.7
42.5°	2776.5	2798.1	2819.8	2823.4	2813.7	2804.1	2792.1	2787.3
45°	2983.5	3009.4	3037.7	3044.9	3030.5	3019.0	3003.4	3003.4
47.5°	3215.9	3248.4	3280.2	3300.1	3286.8	3274.8	3256.2	3244.1
50°	3490.3	3534.8	3576.3	3596.8	3575.7	3552.9	3520.4	3509.5
52.5°	3834.5	3882.7	3918.8	3908.0	3875.4	3843.6	3808.0	3793.6
55°	4273.9	4290.2	4290.2	4249.2	4184.3	4130.7	4074.7	4056.0
57.5°	4823.4	4760.8	4664.6	4542.4	4388.9	4255.3	4164.9	4122.3
60°	5469.2	5168.4	4828.2	4494.2	4219.8	3993.5	3859.3	3797.8
62.5°	5899.6	5112.3	4431.0	3894.8	3499.9	3227.3	3041.8	2969.6
65°	5513.8	4263.7	3351.3	2709.7	2279.3	2001.8	1818.3	1750.9
67.5°	4038.6	2671.7	1784.5	1279.0	937.1	747.6	672.3	641.0
70°	1812.9	940.7	576.6	450.2	388.2	356.3	342.5	337.7
72.5°	546.5	395.5	333.5	301.0	276.3	260.6	249.2	248.0
75°	329.8	274.5	243.8	224.5	208.9	196.2	190.2	188.4
77.5°	230.5	201.6	187.2	173.4	161.3	151.7	146.3	142.1
80°	161.9	148.0	141.5	133.6	125.8	116.7	108.9	105.4
82.5°	108.3	105.4	105.4	100.6	93.9	85.4	69.9	66.2
85°	69.9	69.3	70.4	68.6	63.8	54.7	45.1	42.8
87.5°	32.5	33.1	36.7	36.1	34.9	28.8	22.9	21.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)