

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: P193372

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193372
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-04-LED-E1-5NQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13316 lumens
Efficiency: N/A
Efficacy: 103.2 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): 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

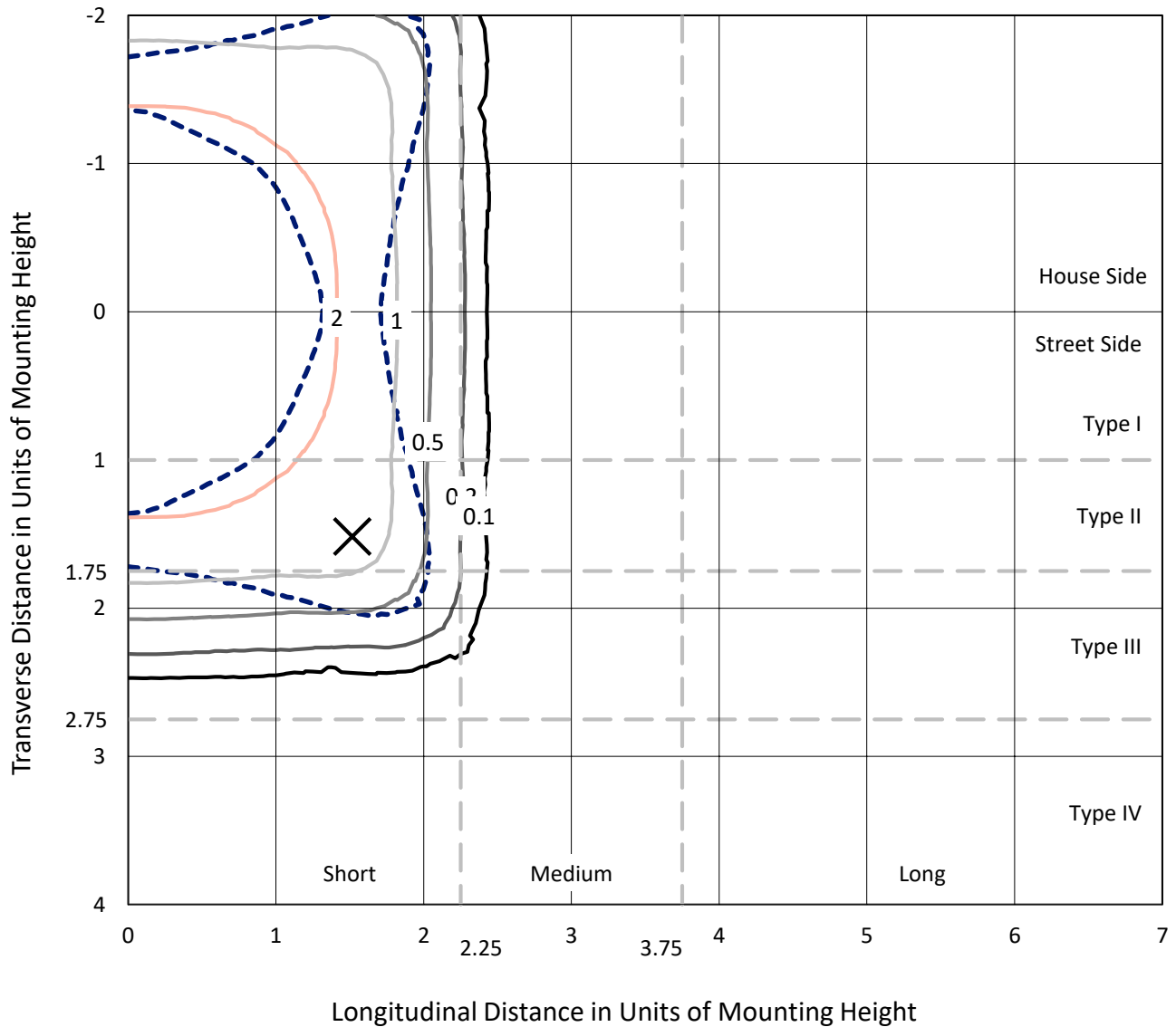


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

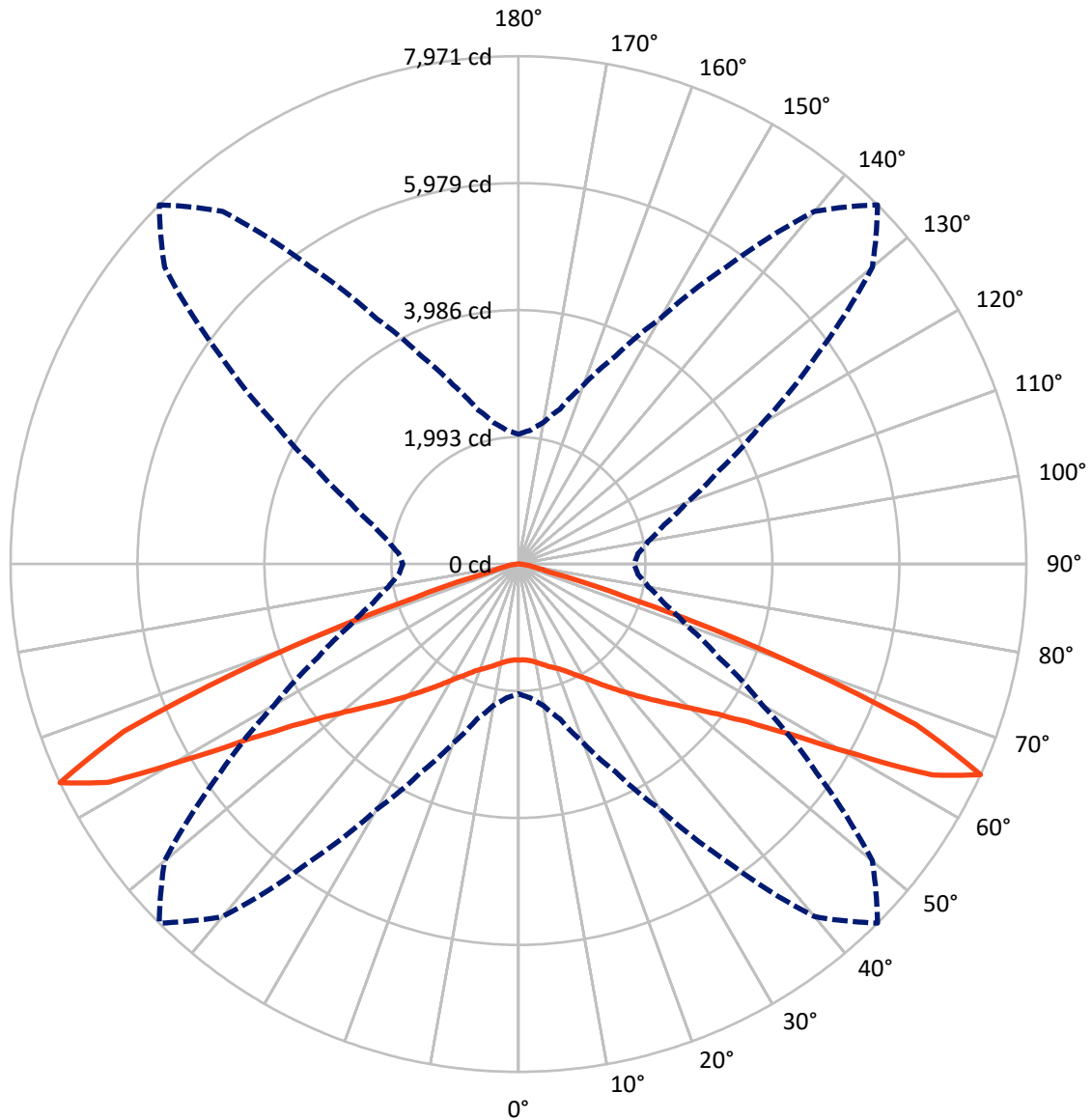


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

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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	6658.0	0.0	6658.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6658.0	0.0	6658.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13316.0	0.0	13316.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	1.1
10°-20°	471.0	3.5
20°-30°	880.7	6.6
30°-40°	1489.5	11.2
40°-50°	2435.4	18.3
50°-60°	3872.7	29.1
60°-70°	3500.7	26.3
70°-80°	443.0	3.3
80°-90°	76.2	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°	13316.0	100.0
0°-180°	13316.0	100.0



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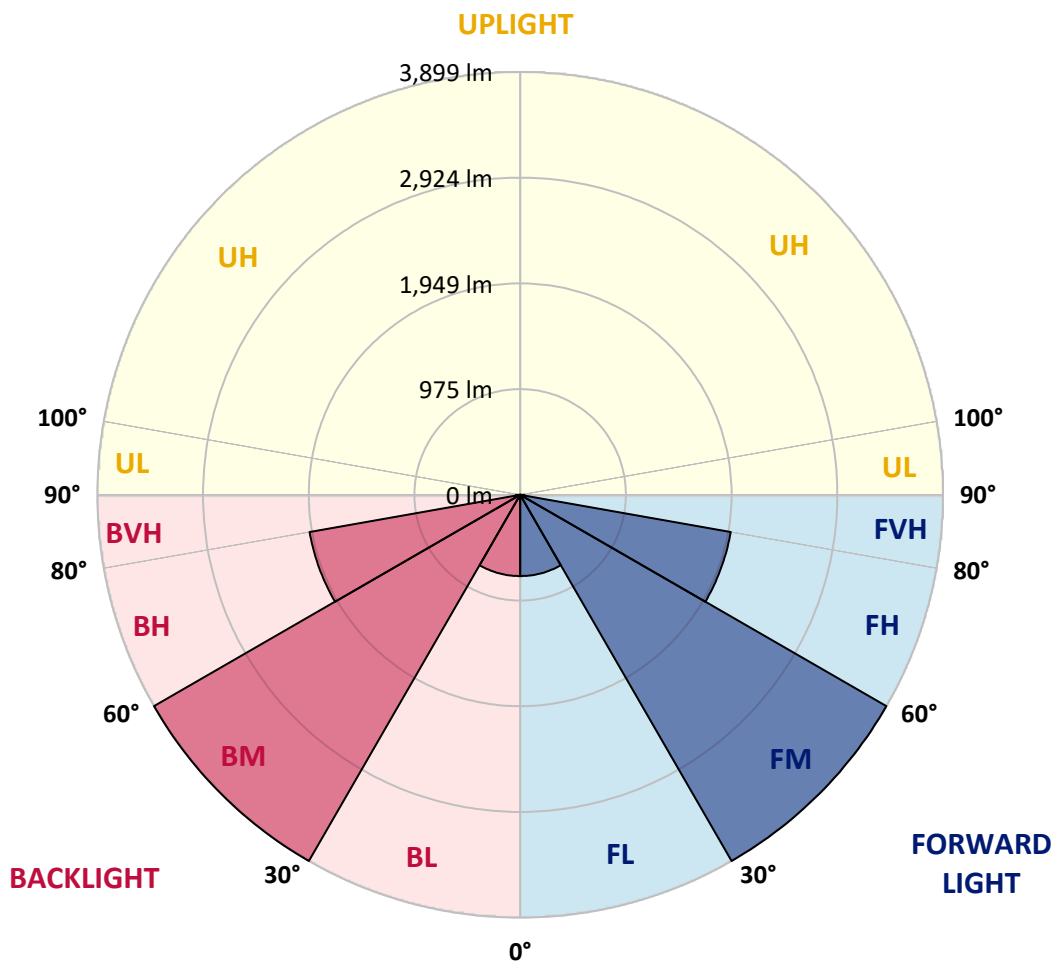
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	749.3	5.6			
FM	(30°-60°)	3898.8	29.3			
FH	(60°-80°)	1971.8	14.8			G2/5000
FVH	(80°-90°)	38.1	0.3			G1/100
BL	(0°-30°)	749.3	5.6	B2/1000		
BM	(30°-60°)	3898.8	29.3	B3/5000		
BH	(60°-80°)	1971.8	14.8	B3/2500		G2/5000
BVH	(80°-90°)	38.1	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°	1506.7	1506.7	1506.7	1506.7	1506.7	1506.7	1506.7	1506.7	1506.7	1506.7	1506.7
2.5°	1508.0	1509.2	1510.5	1509.2	1510.5	1508.6	1507.3	1509.2	1507.3	1505.5	1506.7
5°	1521.1	1521.7	1521.7	1519.8	1521.7	1520.4	1518.6	1521.1	1519.2	1517.3	1518.6
7.5°	1542.9	1545.4	1543.5	1541.6	1542.9	1541.6	1540.4	1541.0	1540.4	1538.5	1539.1
10°	1572.2	1574.1	1572.8	1572.2	1573.4	1572.8	1571.6	1570.9	1571.6	1569.7	1569.7
12.5°	1607.7	1607.1	1606.5	1607.1	1609.0	1609.0	1608.4	1609.0	1610.2	1610.9	1609.6
15°	1642.7	1643.9	1643.9	1643.9	1647.7	1650.8	1652.6	1653.9	1656.4	1657.0	1654.5
17.5°	1686.3	1686.3	1685.7	1686.3	1690.1	1695.1	1696.9	1699.4	1701.9	1703.8	1700.7
20°	1735.0	1736.2	1736.2	1737.5	1742.4	1748.1	1748.1	1749.3	1748.1	1749.3	1747.4
22.5°	1794.2	1798.0	1798.0	1798.6	1803.6	1810.4	1808.6	1810.4	1807.3	1809.8	1807.3
25°	1871.5	1877.2	1875.9	1875.9	1879.6	1884.0	1884.6	1888.4	1887.8	1890.9	1889.0
27.5°	1958.9	1967.6	1970.1	1969.5	1971.9	1976.3	1977.6	1981.9	1979.4	1981.9	1980.7
30°	2063.6	2067.4	2072.4	2074.2	2077.3	2081.7	2081.7	2082.3	2079.2	2083.0	2084.8
32.5°	2172.1	2179.0	2184.0	2195.2	2200.8	2203.9	2203.3	2204.6	2201.4	2206.4	2210.2
35°	2315.6	2320.6	2328.7	2337.4	2344.9	2344.3	2342.4	2343.0	2343.0	2347.4	2351.1
37.5°	2488.3	2489.6	2500.2	2512.6	2516.4	2512.6	2501.4	2498.9	2493.3	2498.9	2505.2
40°	2671.0	2675.4	2696.6	2704.7	2706.6	2699.7	2683.5	2674.2	2661.7	2668.6	2677.3
42.5°	2862.5	2871.2	2890.6	2904.9	2911.1	2906.8	2884.3	2870.0	2853.8	2857.5	2866.2
45°	3074.5	3085.1	3112.6	3126.3	3138.2	3131.3	3109.5	3087.6	3062.1	3063.9	3077.7
47.5°	3311.5	3322.1	3357.7	3380.7	3387.0	3385.7	3361.4	3331.5	3296.6	3295.3	3307.2
50°	3577.2	3587.8	3632.1	3667.6	3685.7	3683.8	3655.1	3612.7	3570.3	3571.0	3585.9
52.5°	3836.6	3849.7	3895.9	3957.0	3992.5	4018.1	4000.6	3960.7	3909.0	3910.2	3923.9
55°	4079.8	4101.7	4154.7	4237.6	4303.7	4375.5	4396.0	4394.8	4363.6	4372.3	4386.1
57.5°	4197.7	4230.1	4311.8	4442.8	4577.5	4723.4	4846.9	4939.2	4978.5	5037.8	5024.0
60°	3974.5	4026.2	4146.6	4339.3	4605.6	4909.9	5236.1	5554.8	5826.7	6031.8	5914.0
62.5°	3254.1	3321.5	3467.4	3714.4	4117.3	4604.3	5228.6	5981.9	6802.7	7297.8	6944.2
65°	2036.2	2106.0	2254.5	2518.9	2990.4	3595.9	4442.8	5691.3	7224.9	7971.4	7251.7
67.5°	793.9	831.9	912.4	1081.4	1435.6	1974.4	2824.5	4241.4	6075.5	6729.7	5962.6
70°	397.9	401.6	416.6	447.8	523.9	680.4	1035.2	1966.3	3484.3	4208.3	3358.9
72.5°	287.5	288.1	295.6	309.3	333.6	368.6	435.9	601.8	1133.2	1731.8	1062.1
75°	220.1	222.6	227.0	234.5	247.6	265.0	289.4	346.7	429.7	498.3	419.1
77.5°	169.6	174.6	177.7	184.6	192.7	204.6	211.4	233.2	271.3	285.6	281.3
80°	129.1	133.5	140.3	145.9	151.5	157.2	154.7	164.6	184.6	196.4	190.2
82.5°	82.3	87.3	107.3	112.3	114.7	118.5	114.1	114.7	123.5	131.0	123.5
85°	53.0	56.1	68.0	74.2	74.8	77.3	75.5	71.1	71.1	64.9	73.0
87.5°	24.3	24.9	30.6	36.2	37.4	33.7	33.1	31.8	25.6	24.3	26.2
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°	1506.7	1506.7	1506.7	1506.7	1506.7	1506.7	1506.7	1506.7
2.5°	1506.1	1507.3	1508.0	1509.8	1510.5	1510.5	1511.1	1512.3
5°	1517.9	1519.8	1520.4	1522.9	1523.6	1522.9	1524.2	1524.8
7.5°	1539.1	1542.3	1543.5	1546.0	1544.1	1546.6	1547.2	1547.2
10°	1570.3	1573.4	1574.1	1576.6	1575.3	1576.6	1576.6	1575.3
12.5°	1611.5	1612.1	1610.2	1612.1	1609.6	1610.9	1609.0	1607.7
15°	1657.0	1655.1	1650.8	1650.8	1647.0	1647.7	1647.0	1646.4
17.5°	1701.3	1697.5	1694.4	1693.2	1690.1	1689.4	1687.6	1687.6
20°	1749.9	1748.1	1746.2	1743.7	1740.6	1737.5	1736.8	1738.1
22.5°	1808.6	1807.9	1807.9	1806.7	1802.3	1799.2	1797.3	1797.3
25°	1887.1	1881.5	1881.5	1880.9	1879.0	1877.2	1873.4	1875.3
27.5°	1975.7	1972.6	1975.1	1974.4	1972.6	1972.6	1970.1	1970.1
30°	2084.8	2083.6	2087.3	2084.2	2078.0	2077.3	2074.8	2071.7
32.5°	2210.8	2209.6	2215.2	2211.4	2201.4	2195.8	2190.8	2188.4
35°	2351.1	2351.7	2358.6	2356.1	2344.9	2341.1	2332.4	2331.2
37.5°	2504.5	2514.5	2526.4	2528.9	2519.5	2517.0	2507.7	2502.7
40°	2684.8	2697.9	2715.9	2720.3	2710.3	2708.5	2695.4	2688.5
42.5°	2876.8	2899.3	2921.8	2925.5	2915.5	2905.5	2893.1	2888.1
45°	3091.4	3118.2	3147.5	3155.0	3140.0	3128.2	3112.0	3112.0
47.5°	3332.1	3365.8	3398.8	3419.4	3405.7	3393.2	3373.9	3361.4
50°	3616.5	3662.6	3705.7	3726.9	3705.0	3681.3	3647.7	3636.4
52.5°	3973.2	4023.1	4060.5	4049.3	4015.6	3982.6	3945.8	3930.8
55°	4428.5	4445.3	4445.3	4402.9	4335.5	4280.0	4222.0	4202.7
57.5°	4997.8	4933.0	4833.2	4706.6	4547.6	4409.1	4315.6	4271.3
60°	5667.0	5355.2	5002.8	4656.7	4372.3	4137.8	3998.8	3935.2
62.5°	6112.9	5297.2	4591.2	4035.6	3626.5	3344.0	3151.9	3077.0
65°	5713.2	4417.9	3472.4	2807.6	2361.7	2074.2	1884.0	1814.2
67.5°	4184.6	2768.3	1849.1	1325.2	971.0	774.6	696.6	664.2
70°	1878.4	974.7	597.4	466.5	402.2	369.2	354.9	349.9
72.5°	566.3	409.7	345.5	311.8	286.3	270.0	258.2	256.9
75°	341.8	284.4	252.6	232.6	216.4	203.3	197.1	195.2
77.5°	238.9	208.9	194.0	179.6	167.1	157.2	151.5	147.2
80°	167.8	153.4	146.6	138.4	130.3	121.0	112.9	109.1
82.5°	112.3	109.1	109.1	104.1	97.3	88.6	72.3	68.6
85°	72.3	71.7	73.0	71.1	66.1	56.8	46.8	44.3
87.5°	33.7	34.3	38.0	37.4	36.2	29.9	23.7	22.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)