

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: P190901

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190901
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-03-LED-E1-5WQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 21479.9 lumens
Efficiency: N/A
Efficacy: 112.5 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): 191
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

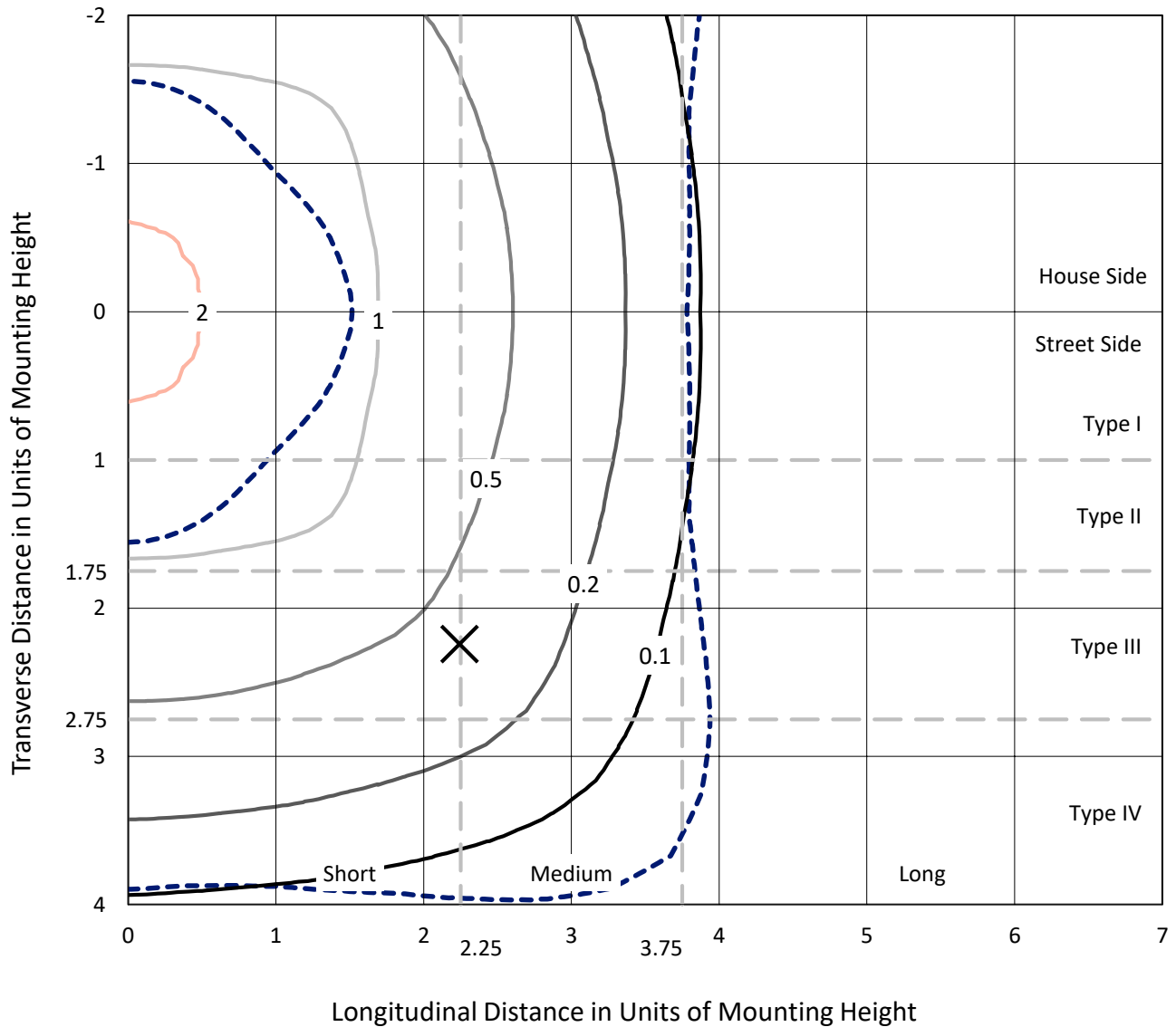


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Iso-Footcandle Lines of Horizontal Illumination

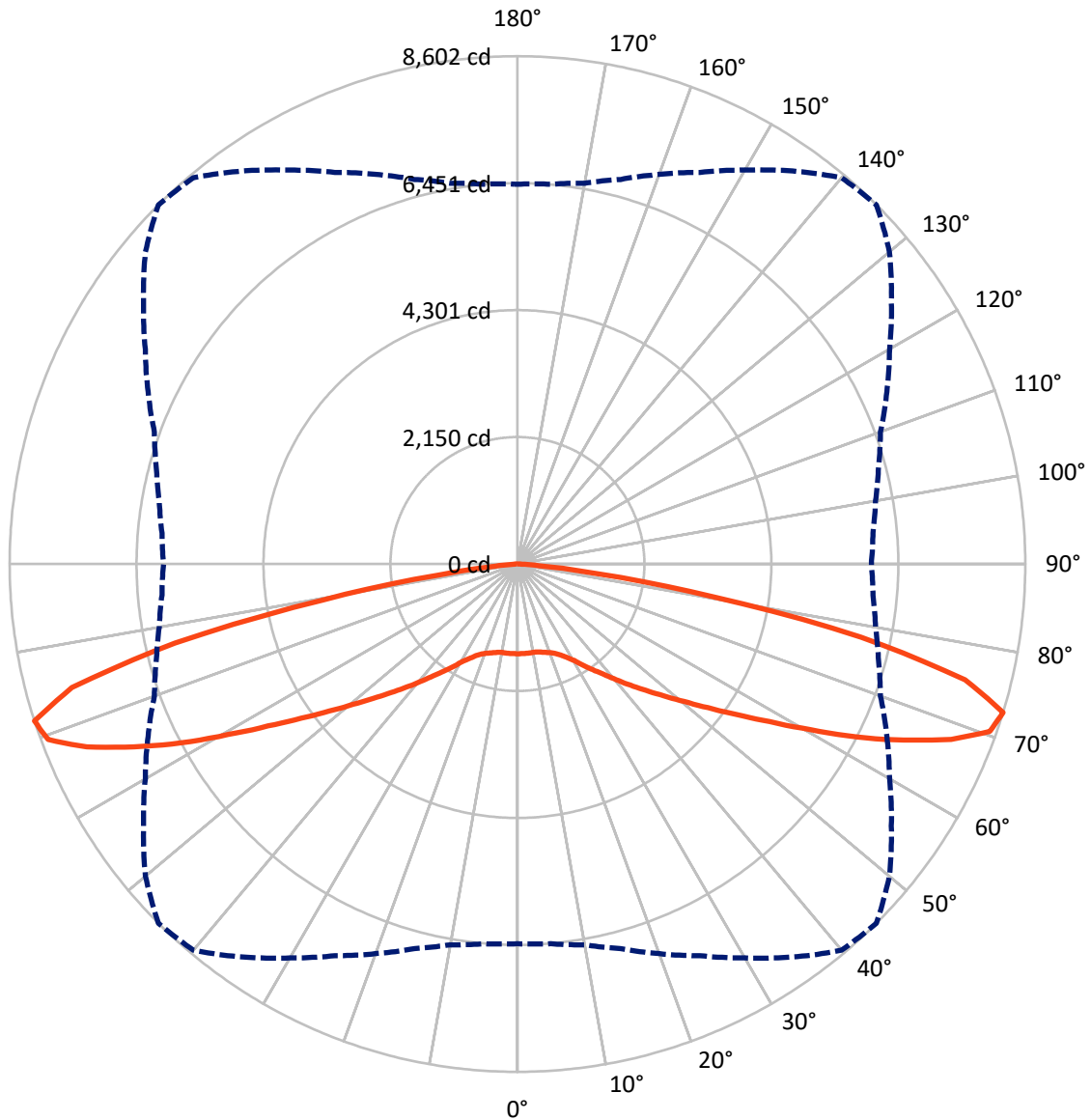
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	10740.0	0.0	10740.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10740.0	0.0	10740.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21479.9	0.0	21479.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	0.7
10°-20°	441.1	2.1
20°-30°	806.1	3.8
30°-40°	1389.9	6.5
40°-50°	2376.0	11.1
50°-60°	3851.3	17.9
60°-70°	6389.1	29.7
70°-80°	5627.3	26.2
80°-90°	453.7	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°	21479.9	100.0
0°-180°	21479.9	100.0



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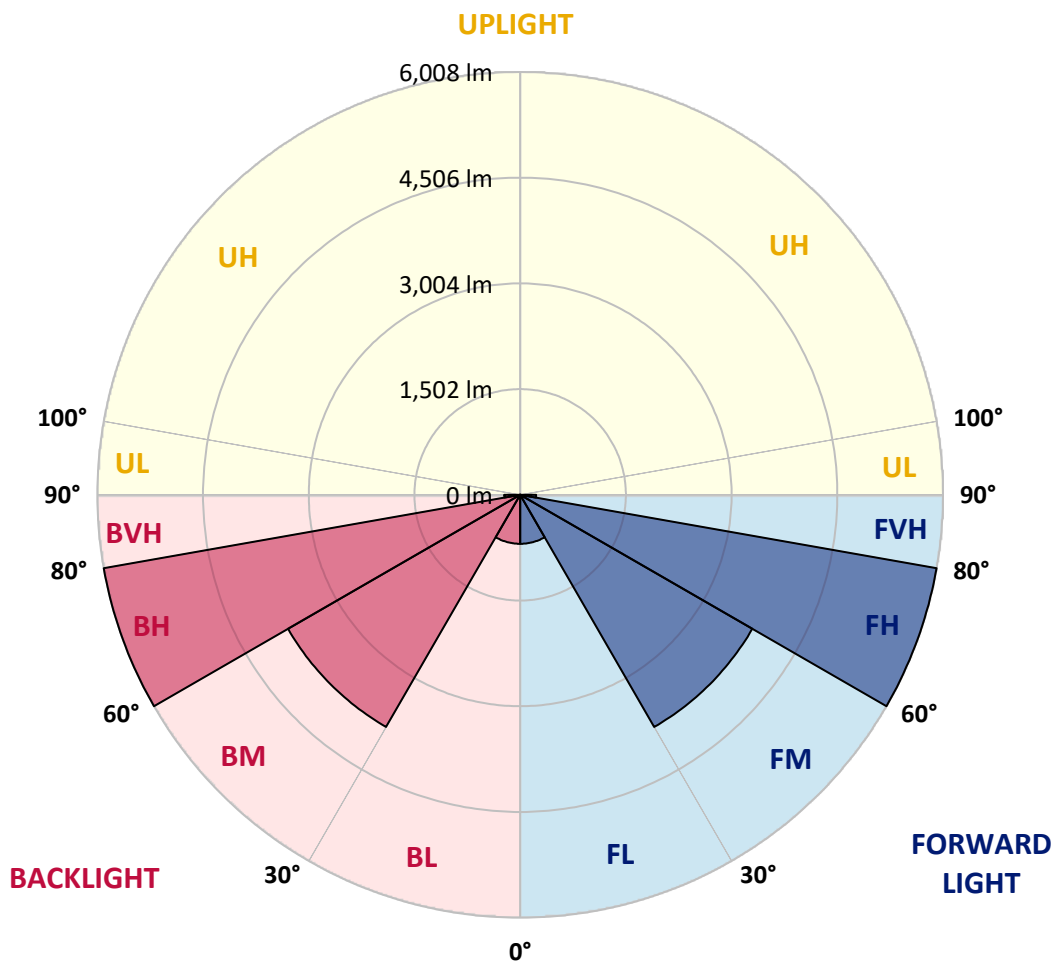
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.3	3.2			
FM	(30°-60°)	3808.6	17.7			
FH	(60°-80°)	6008.2	28.0			G3/7500
FVH	(80°-90°)	226.9	1.1			G3/500
BL	(0°-30°)	696.3	3.2	B2/1000		
BM	(30°-60°)	3808.6	17.7	B3/5000		
BH	(60°-80°)	6008.2	28.0	B5		G3/7500
BVH	(80°-90°)	226.9	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°	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1
2.5°	1521.1	1522.0	1523.1	1522.0	1522.0	1521.1	1520.1	1521.1	1520.1	1518.2	1519.2
5°	1526.0	1528.0	1528.0	1526.0	1527.1	1526.0	1524.1	1525.0	1523.1	1520.1	1520.1
7.5°	1532.0	1532.9	1532.9	1530.9	1532.0	1530.0	1528.0	1527.1	1525.0	1521.1	1518.2
10°	1540.8	1541.8	1540.8	1538.8	1538.8	1535.9	1530.9	1529.0	1525.0	1519.2	1516.2
12.5°	1550.7	1551.6	1550.7	1548.7	1547.7	1542.8	1538.8	1535.9	1532.9	1528.0	1523.1
15°	1564.5	1566.4	1564.5	1560.5	1557.5	1553.7	1551.6	1552.6	1553.7	1549.7	1544.8
17.5°	1590.1	1591.1	1588.1	1579.2	1575.3	1571.4	1571.4	1573.3	1576.3	1574.3	1569.4
20°	1637.3	1634.4	1627.5	1616.7	1611.8	1604.8	1603.9	1604.8	1604.8	1603.9	1599.9
22.5°	1696.5	1694.5	1685.6	1671.8	1665.0	1661.0	1655.1	1650.1	1649.2	1646.2	1642.2
25°	1767.5	1766.4	1755.6	1743.7	1738.8	1733.9	1729.0	1722.1	1716.2	1709.2	1705.4
27.5°	1858.1	1854.1	1838.3	1832.4	1825.6	1822.6	1815.6	1807.8	1802.8	1794.1	1789.0
30°	1957.5	1957.5	1944.7	1942.8	1942.8	1935.8	1928.0	1914.2	1905.3	1896.4	1893.5
32.5°	2057.1	2058.1	2045.2	2049.2	2052.1	2057.1	2059.0	2054.1	2048.2	2047.2	2041.3
35°	2200.9	2197.0	2184.1	2187.1	2186.1	2185.1	2185.1	2196.0	2197.9	2199.9	2188.1
37.5°	2379.2	2379.2	2366.4	2366.4	2360.5	2354.5	2346.6	2353.6	2364.4	2367.4	2359.5
40°	2583.2	2590.0	2574.3	2573.2	2575.3	2556.6	2547.7	2558.5	2565.4	2577.2	2568.3
42.5°	2823.5	2818.6	2802.8	2800.8	2790.0	2784.1	2776.2	2785.1	2795.9	2803.8	2806.8
45°	3054.0	3050.1	3032.3	3032.3	3021.5	3016.6	3020.6	3035.3	3040.2	3051.1	3061.9
47.5°	3281.6	3276.7	3264.8	3269.8	3270.8	3279.7	3292.5	3306.3	3320.1	3334.8	3339.7
50°	3514.1	3515.1	3502.3	3514.1	3528.9	3553.5	3588.0	3610.7	3639.2	3658.0	3663.9
52.5°	3725.9	3729.9	3743.7	3771.2	3800.8	3849.1	3908.2	3963.3	4010.7	4042.2	4040.2
55°	3980.1	3986.0	4019.5	4066.8	4115.1	4188.0	4275.6	4373.2	4452.0	4497.3	4468.8
57.5°	4305.2	4318.0	4355.4	4419.5	4491.4	4586.0	4706.2	4853.0	4975.1	5036.2	4990.0
60°	4751.5	4759.4	4804.7	4875.6	4962.3	5079.6	5240.2	5437.2	5609.6	5690.4	5637.2
62.5°	5339.7	5354.4	5390.8	5462.8	5551.5	5684.4	5880.5	6126.9	6341.6	6453.9	6333.7
65°	6042.1	6089.4	6119.9	6192.8	6275.6	6416.5	6621.4	6885.4	7116.0	7189.8	7050.9
67.5°	6737.7	6779.0	6832.2	6916.0	6999.6	7158.3	7348.5	7604.6	7857.8	7924.8	7709.0
70°	7042.0	7065.7	7148.5	7262.7	7423.3	7610.4	7830.2	8117.8	8431.2	8486.3	8212.5
72.5°	6432.2	6455.8	6548.4	6742.6	7022.4	7319.8	7703.1	8125.7	8539.5	8601.6	8224.2
75°	4864.8	4826.4	4963.4	5220.4	5597.8	6012.5	6548.4	7154.3	7752.3	7830.2	7380.0
77.5°	2514.2	2509.2	2612.7	2931.9	3382.1	3854.0	4444.1	5128.9	5714.0	5950.5	5584.0
80°	708.3	716.3	765.5	924.1	1187.1	1528.0	1989.0	2630.4	3109.3	3353.5	3148.6
82.5°	277.8	299.5	318.2	347.8	382.3	432.5	577.4	859.1	1152.7	1377.3	1128.0
85°	99.5	106.4	150.8	178.3	181.3	191.1	217.7	254.2	306.4	365.5	300.4
87.5°	37.4	41.3	48.3	79.8	78.8	71.9	87.7	91.7	68.9	63.0	77.8
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°	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1	1521.1
2.5°	1517.1	1518.2	1518.2	1519.2	1520.1	1520.1	1522.0	1522.0
5°	1518.2	1518.2	1516.2	1517.1	1516.2	1516.2	1517.1	1517.1
7.5°	1516.2	1515.2	1513.3	1512.2	1510.3	1510.3	1510.3	1510.3
10°	1513.3	1512.2	1510.3	1509.3	1508.3	1508.3	1508.3	1508.3
12.5°	1521.1	1518.2	1516.2	1515.2	1515.2	1515.2	1515.2	1515.2
15°	1541.8	1534.9	1530.0	1530.0	1530.9	1532.9	1532.9	1534.9
17.5°	1567.4	1559.5	1554.6	1550.7	1552.6	1555.6	1557.5	1559.5
20°	1598.0	1594.1	1587.1	1583.2	1583.2	1587.1	1589.1	1590.1
22.5°	1640.3	1637.3	1634.4	1629.5	1629.5	1631.4	1635.4	1635.4
25°	1703.4	1701.4	1699.4	1695.4	1694.5	1694.5	1696.5	1698.4
27.5°	1782.2	1783.2	1781.2	1780.2	1777.3	1776.3	1779.2	1778.2
30°	1887.5	1892.6	1897.5	1893.5	1888.6	1885.6	1882.6	1878.8
32.5°	2030.5	2024.5	2020.6	2013.7	2004.9	1996.9	1991.1	1984.1
35°	2165.4	2155.6	2151.7	2157.5	2156.6	2151.7	2144.7	2138.8
37.5°	2330.9	2329.0	2330.9	2341.7	2339.8	2344.7	2330.9	2330.0
40°	2539.8	2541.7	2555.5	2568.3	2575.3	2582.1	2574.3	2566.4
42.5°	2782.1	2781.2	2786.1	2803.8	2815.7	2823.5	2806.8	2804.8
45°	3038.3	3031.4	3035.3	3050.1	3061.9	3070.8	3052.1	3052.1
47.5°	3320.1	3308.2	3295.4	3312.2	3319.1	3325.0	3310.2	3305.3
50°	3634.3	3609.7	3582.1	3589.0	3589.0	3587.0	3568.4	3567.3
52.5°	3994.9	3949.6	3899.3	3880.6	3869.8	3858.0	3825.4	3809.7
55°	4409.6	4341.7	4262.8	4214.6	4189.0	4156.5	4102.2	4087.5
57.5°	4894.3	4787.9	4652.0	4592.8	4535.8	4482.6	4422.4	4405.7
60°	5468.7	5312.1	5131.7	5022.4	4960.4	4909.1	4847.0	4844.1
62.5°	6109.1	5861.8	5657.8	5559.3	5514.0	5468.7	5409.6	5417.4
65°	6760.3	6502.2	6311.0	6231.2	6188.9	6151.4	6092.3	6101.2
67.5°	7402.6	7165.2	6955.3	6873.6	6826.3	6779.0	6725.8	6734.7
70°	7863.6	7569.1	7332.7	7151.3	7038.1	6910.0	6827.3	6806.6
72.5°	7731.7	7277.5	6902.2	6542.6	6331.8	6160.3	6044.1	5993.8
75°	6691.3	6070.7	5587.9	5146.6	4898.3	4696.4	4549.6	4457.9
77.5°	4969.2	4271.7	3701.3	3192.9	2791.0	2521.1	2330.9	2207.7
80°	2720.0	2068.9	1512.2	1063.1	781.2	649.3	573.4	536.9
82.5°	847.2	546.8	402.9	347.8	323.2	309.3	286.7	250.2
85°	270.0	236.4	219.7	209.8	200.0	174.4	120.2	109.4
87.5°	104.4	107.4	106.4	100.5	102.5	73.9	59.1	52.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)