

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: P190873

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190873
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-05-LED-E1-5WQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21119.8 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

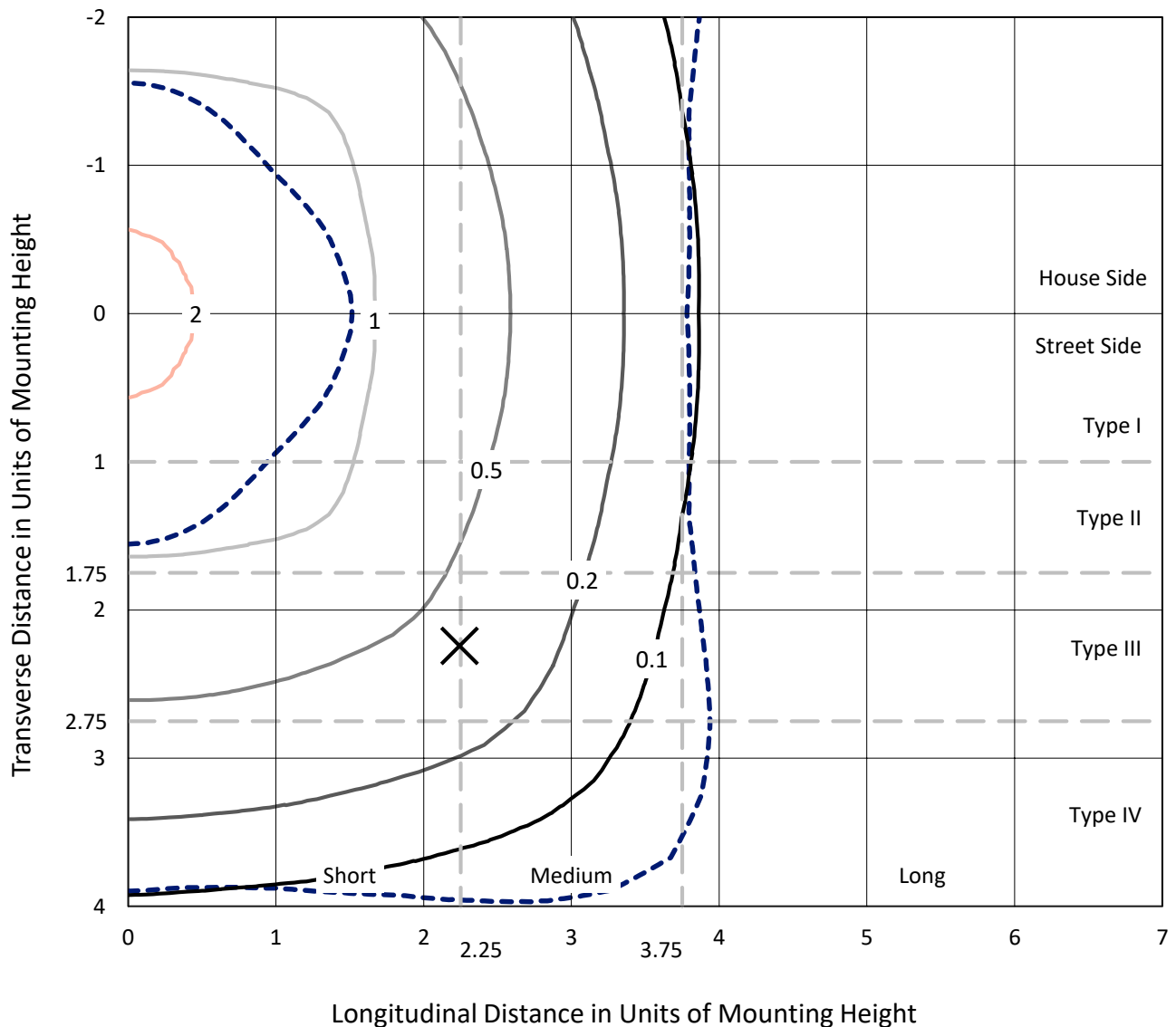
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

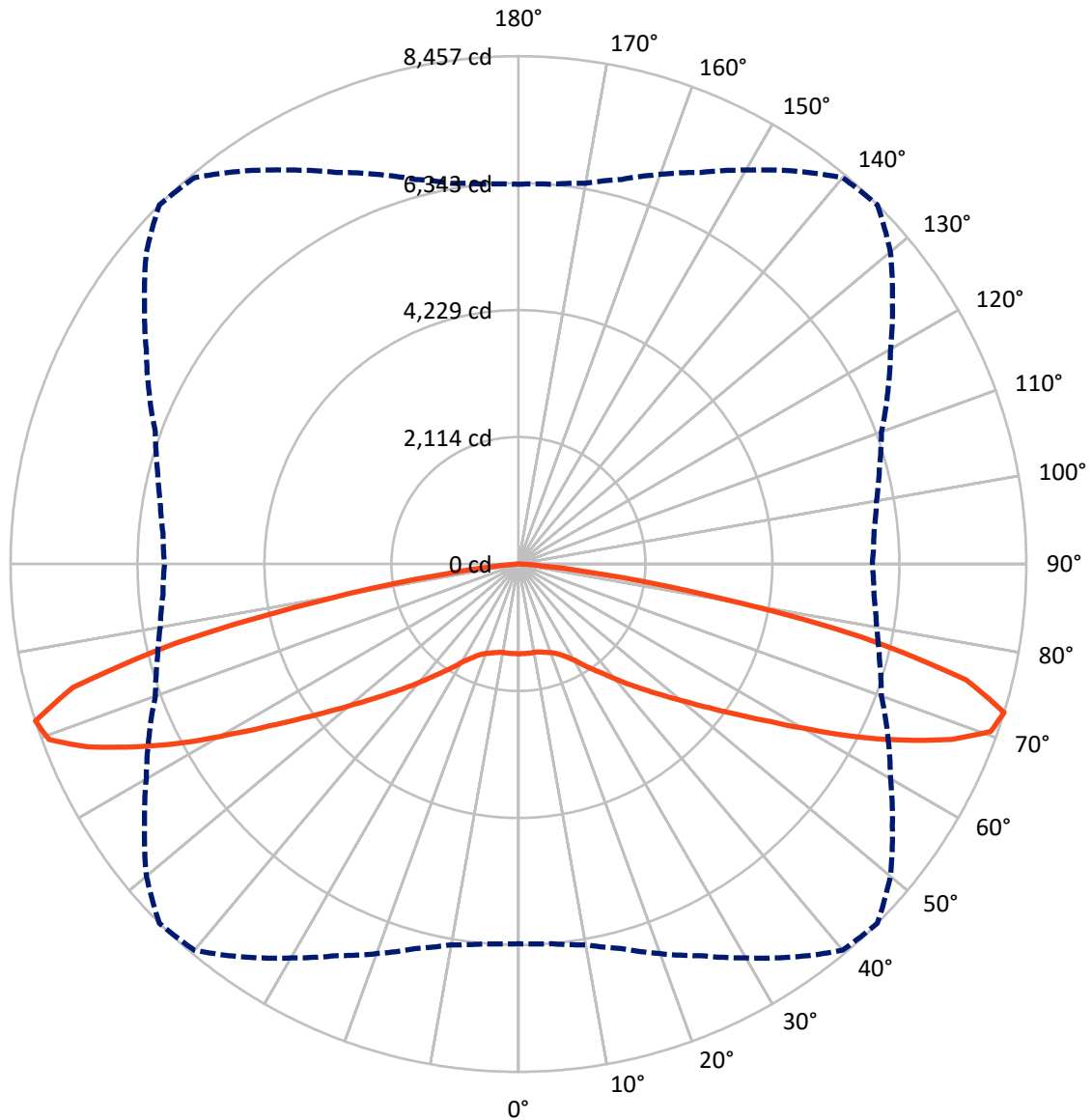
× Max cd
 - - - 1/2 Max cd



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	10559.9	0.0	10559.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10559.9	0.0	10559.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	21119.8	0.0	21119.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	0.7
10°-20°	433.7	2.1
20°-30°	792.6	3.8
30°-40°	1366.6	6.5
40°-50°	2336.2	11.1
50°-60°	3786.7	17.9
60°-70°	6282.0	29.7
70°-80°	5533.0	26.2
80°-90°	446.1	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°	21119.8	100.0
0°-180°	21119.8	100.0



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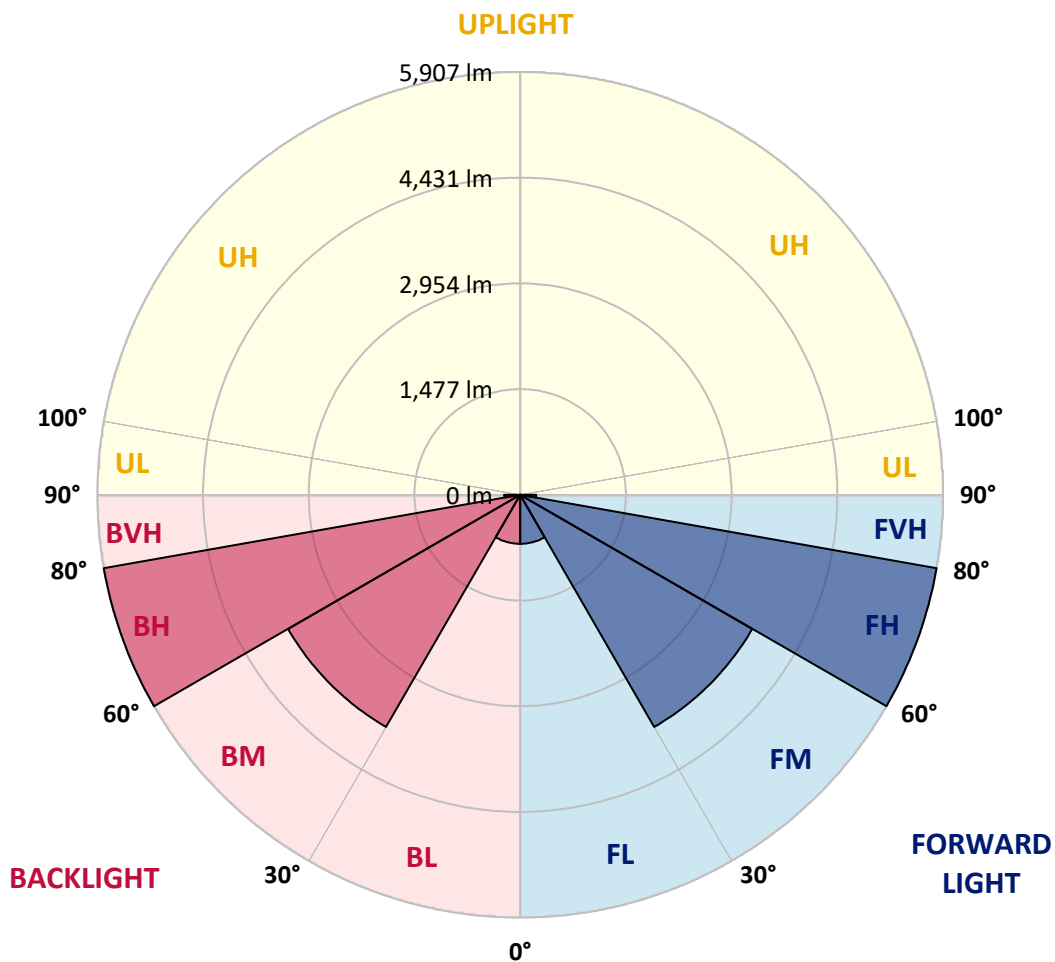
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	684.6	3.2			
FM	(30°-60°)	3744.8	17.7			
FH	(60°-80°)	5907.5	28.0			G3/7500
FVH	(80°-90°)	223.1	1.1			G2/225
BL	(0°-30°)	684.6	3.2	B2/1000		
BM	(30°-60°)	3744.8	17.7	B3/5000		
BH	(60°-80°)	5907.5	28.0	B5		G3/7500
BVH	(80°-90°)	223.1	1.1			G2/225
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°	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7
2.5°	1495.7	1496.6	1497.6	1496.6	1496.6	1495.7	1494.6	1495.7	1494.6	1492.7	1493.7
5°	1500.5	1502.4	1502.4	1500.5	1501.4	1500.5	1498.5	1499.4	1497.6	1494.6	1494.6
7.5°	1506.3	1507.2	1507.2	1505.3	1506.3	1504.4	1502.4	1501.4	1499.4	1495.7	1492.7
10°	1515.0	1515.9	1515.0	1513.0	1513.0	1510.2	1505.3	1503.3	1499.4	1493.7	1490.7
12.5°	1524.7	1525.6	1524.7	1522.8	1521.7	1516.9	1513.0	1510.2	1507.2	1502.4	1497.6
15°	1538.2	1540.2	1538.2	1534.3	1531.5	1527.6	1525.6	1526.7	1527.6	1523.7	1518.9
17.5°	1563.4	1564.4	1561.4	1552.7	1548.8	1545.1	1545.1	1546.9	1549.9	1547.9	1543.1
20°	1609.9	1607.1	1600.2	1589.6	1584.8	1577.9	1577.0	1577.9	1577.9	1577.0	1573.1
22.5°	1668.0	1666.1	1657.4	1643.8	1637.0	1633.1	1627.3	1622.5	1621.6	1618.6	1614.7
25°	1737.8	1736.8	1726.1	1714.6	1709.7	1704.8	1700.0	1693.2	1687.4	1680.6	1676.7
27.5°	1826.9	1823.0	1807.6	1801.7	1795.0	1792.0	1785.3	1777.5	1772.7	1764.0	1759.1
30°	1924.7	1924.7	1912.1	1910.2	1910.2	1903.4	1895.6	1882.1	1873.4	1864.6	1861.8
32.5°	2022.6	2023.5	2010.9	2014.8	2017.8	2022.6	2024.5	2019.6	2013.9	2012.9	2007.0
35°	2164.0	2160.2	2147.5	2150.4	2149.4	2148.5	2148.5	2159.1	2161.1	2163.0	2151.4
37.5°	2339.3	2339.3	2326.7	2326.7	2320.9	2315.1	2307.4	2314.1	2324.8	2327.7	2320.0
40°	2539.8	2546.6	2531.1	2530.2	2532.1	2513.7	2505.0	2515.6	2522.4	2534.1	2525.3
42.5°	2776.2	2771.4	2755.8	2753.9	2743.2	2737.4	2729.6	2738.4	2749.1	2756.9	2759.7
45°	3002.9	2999.0	2981.5	2981.5	2970.9	2966.0	2969.9	2984.5	2989.3	2999.9	3010.6
47.5°	3226.6	3221.8	3210.1	3215.0	3216.0	3224.6	3237.2	3250.8	3264.3	3279.0	3283.8
50°	3455.2	3456.1	3443.6	3455.2	3469.7	3494.0	3527.9	3550.2	3578.3	3596.6	3602.4
52.5°	3663.5	3667.4	3680.9	3708.0	3737.0	3784.5	3842.7	3896.9	3943.4	3974.4	3972.5
55°	3913.4	3919.2	3952.2	3998.6	4046.1	4117.8	4204.0	4299.9	4377.4	4421.9	4393.9
57.5°	4233.1	4245.7	4282.5	4345.4	4416.1	4509.2	4627.3	4771.7	4891.8	4951.8	4906.3
60°	4671.8	4679.6	4724.2	4793.9	4879.2	4994.5	5152.3	5346.0	5515.5	5595.0	5542.7
62.5°	5250.2	5264.7	5300.5	5371.2	5458.4	5589.2	5781.9	6024.1	6235.3	6345.7	6227.5
65°	5940.8	5987.3	6017.3	6089.0	6170.3	6308.8	6510.4	6770.0	6996.7	7069.3	6932.7
67.5°	6624.6	6665.3	6717.6	6800.0	6882.3	7038.3	7225.2	7477.1	7726.0	7791.9	7579.8
70°	6923.9	6947.3	7028.6	7141.0	7298.9	7482.9	7698.9	7981.8	8289.8	8344.0	8074.8
72.5°	6324.4	6347.6	6438.7	6629.5	6904.6	7197.2	7573.9	7989.6	8396.4	8457.3	8086.4
75°	4783.2	4745.5	4880.1	5133.0	5503.9	5911.7	6438.7	7034.4	7622.4	7698.9	7256.2
77.5°	2472.1	2467.2	2568.9	2882.8	3325.4	3789.4	4369.6	5042.8	5618.3	5850.7	5490.4
80°	696.4	704.2	752.7	908.6	1167.2	1502.4	1955.7	2586.3	3057.1	3297.3	3095.9
82.5°	273.1	294.5	312.9	342.0	375.8	425.2	567.6	844.7	1133.3	1354.2	1109.1
85°	97.8	104.6	148.2	175.3	178.2	187.9	214.1	249.9	301.3	359.4	295.4
87.5°	36.8	40.7	47.5	78.5	77.5	70.7	86.2	90.1	67.8	62.0	76.5
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°	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7	1495.7
2.5°	1491.8	1492.7	1492.7	1493.7	1494.6	1494.6	1496.6	1496.6
5°	1492.7	1492.7	1490.7	1491.8	1490.7	1490.7	1491.8	1491.8
7.5°	1490.7	1489.8	1487.9	1486.9	1484.9	1484.9	1484.9	1484.9
10°	1487.9	1486.9	1484.9	1484.0	1483.0	1483.0	1483.0	1483.0
12.5°	1495.7	1492.7	1490.7	1489.8	1489.8	1489.8	1489.8	1489.8
15°	1515.9	1509.2	1504.4	1504.4	1505.3	1507.2	1507.2	1509.2
17.5°	1541.2	1533.4	1528.6	1524.7	1526.7	1529.5	1531.5	1533.4
20°	1571.2	1567.3	1560.5	1556.6	1556.6	1560.5	1562.5	1563.4
22.5°	1612.8	1609.9	1607.1	1602.1	1602.1	1604.1	1608.0	1608.0
25°	1674.8	1672.8	1671.0	1667.1	1666.1	1666.1	1668.0	1670.0
27.5°	1752.3	1753.2	1751.3	1750.4	1747.5	1746.5	1749.5	1748.4
30°	1855.9	1860.7	1865.7	1861.8	1857.0	1854.0	1851.1	1847.2
32.5°	1996.4	1990.6	1986.8	1979.9	1971.2	1963.5	1957.6	1950.9
35°	2129.1	2119.5	2115.6	2121.4	2120.4	2115.6	2108.8	2103.0
37.5°	2291.8	2289.9	2291.8	2302.5	2300.6	2305.4	2291.8	2290.9
40°	2497.2	2499.2	2512.7	2525.3	2532.1	2538.9	2531.1	2523.3
42.5°	2735.5	2734.6	2739.4	2756.9	2768.4	2776.2	2759.7	2757.8
45°	2987.3	2980.6	2984.5	2999.0	3010.6	3019.3	3000.9	3000.9
47.5°	3264.3	3252.8	3240.2	3256.7	3263.4	3269.2	3254.7	3249.8
50°	3573.4	3549.1	3522.0	3528.9	3528.9	3526.9	3508.5	3507.5
52.5°	3927.9	3883.3	3833.9	3815.6	3804.9	3793.3	3761.3	3745.8
55°	4335.8	4268.9	4191.4	4144.0	4118.7	4086.8	4033.5	4019.0
57.5°	4812.3	4707.7	4574.0	4515.9	4459.8	4407.4	4348.4	4331.9
60°	5377.0	5223.0	5045.8	4938.2	4877.2	4826.8	4765.8	4762.9
62.5°	6006.7	5763.5	5563.0	5466.1	5421.6	5377.0	5318.9	5326.7
65°	6646.9	6393.1	6205.2	6126.8	6085.1	6048.3	5990.2	5998.9
67.5°	7278.5	7045.1	6838.7	6758.3	6711.9	6665.3	6613.1	6621.8
70°	7731.9	7442.3	7209.8	7031.6	6920.2	6794.2	6712.8	6692.5
72.5°	7602.1	7155.5	6786.5	6432.9	6225.6	6057.0	5942.7	5893.3
75°	6579.1	5968.9	5494.3	5060.3	4816.2	4617.6	4473.3	4383.2
77.5°	4885.9	4200.1	3639.2	3139.4	2744.2	2478.8	2291.8	2170.8
80°	2674.5	2034.1	1486.9	1045.1	768.1	638.3	563.7	527.9
82.5°	833.1	537.6	396.2	342.0	317.7	304.1	281.9	246.0
85°	265.5	232.5	216.0	206.3	196.6	171.4	118.2	107.5
87.5°	102.7	105.6	104.6	98.8	100.8	72.6	58.1	51.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)