

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: P191701

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191701
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 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: 20998 lumens
Efficiency: N/A
Efficacy: 109.9 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

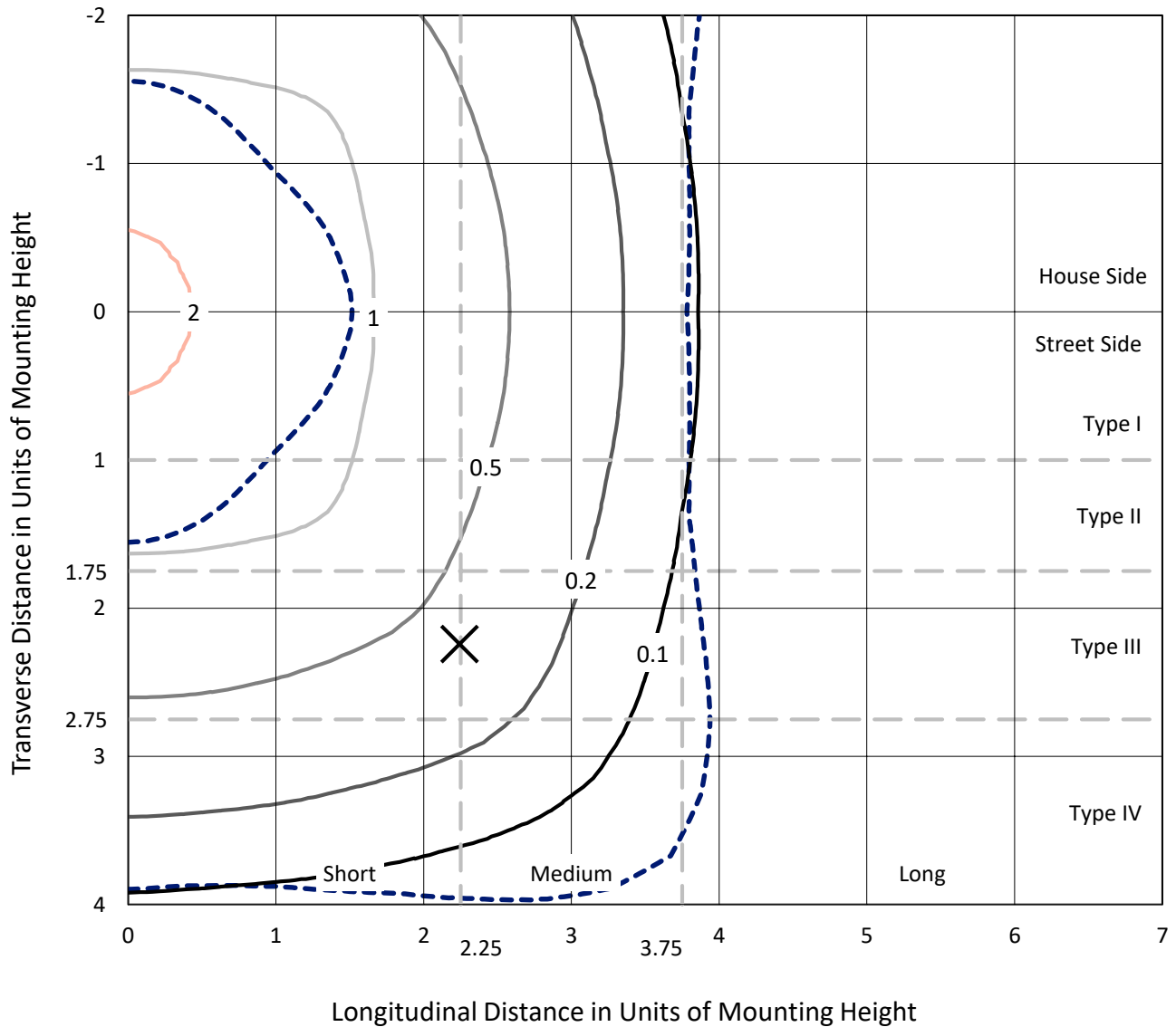
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

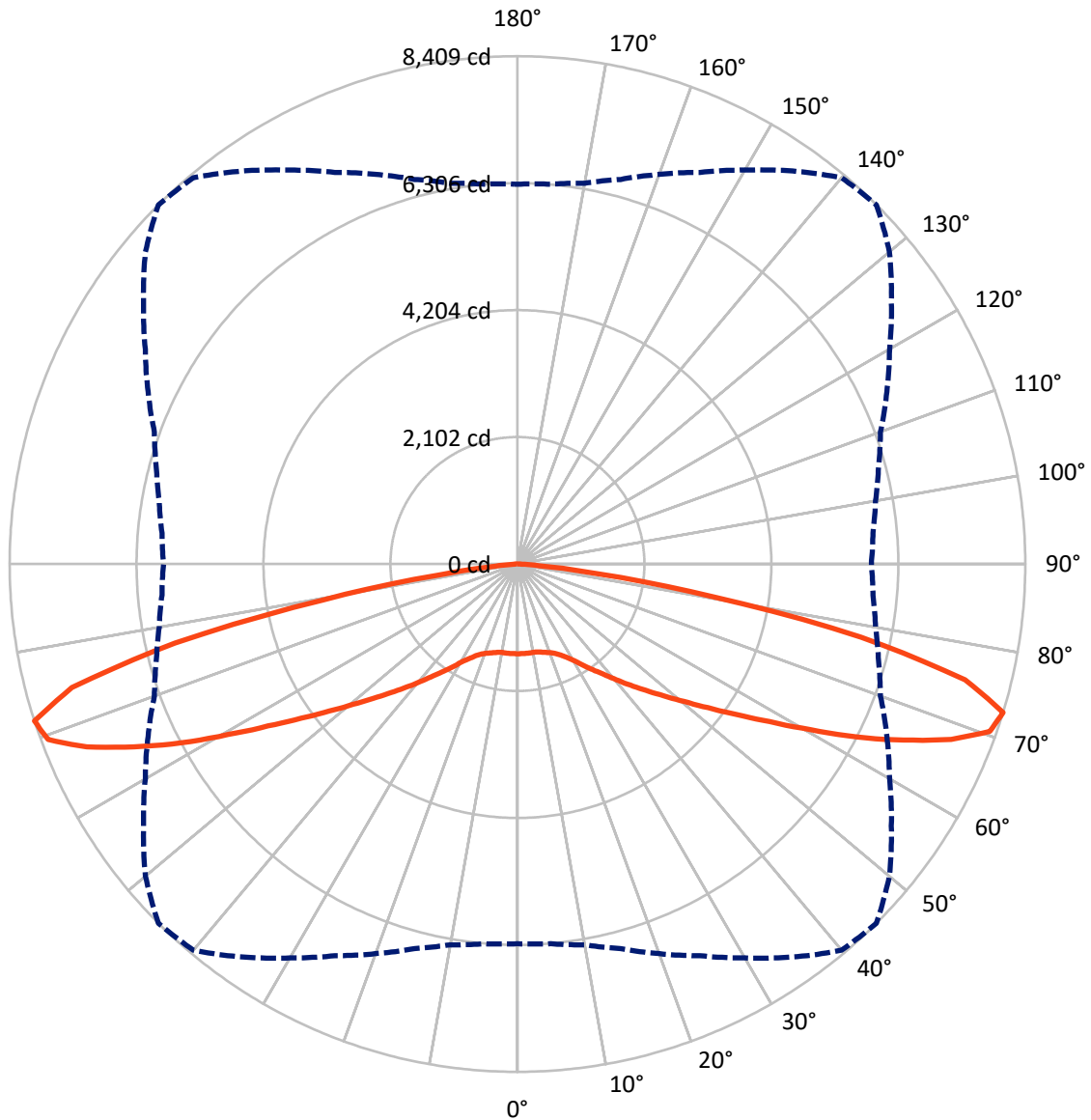
× Max cd
 - - - 1/2 Max cd



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	10499.0	0.0	10499.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10499.0	0.0	10499.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20998.0	0.0	20998.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	0.7
10°-20°	431.2	2.1
20°-30°	788.0	3.8
30°-40°	1358.7	6.5
40°-50°	2322.7	11.1
50°-60°	3764.9	17.9
60°-70°	6245.8	29.7
70°-80°	5501.1	26.2
80°-90°	443.5	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°	20998.0	100.0
0°-180°	20998.0	100.0



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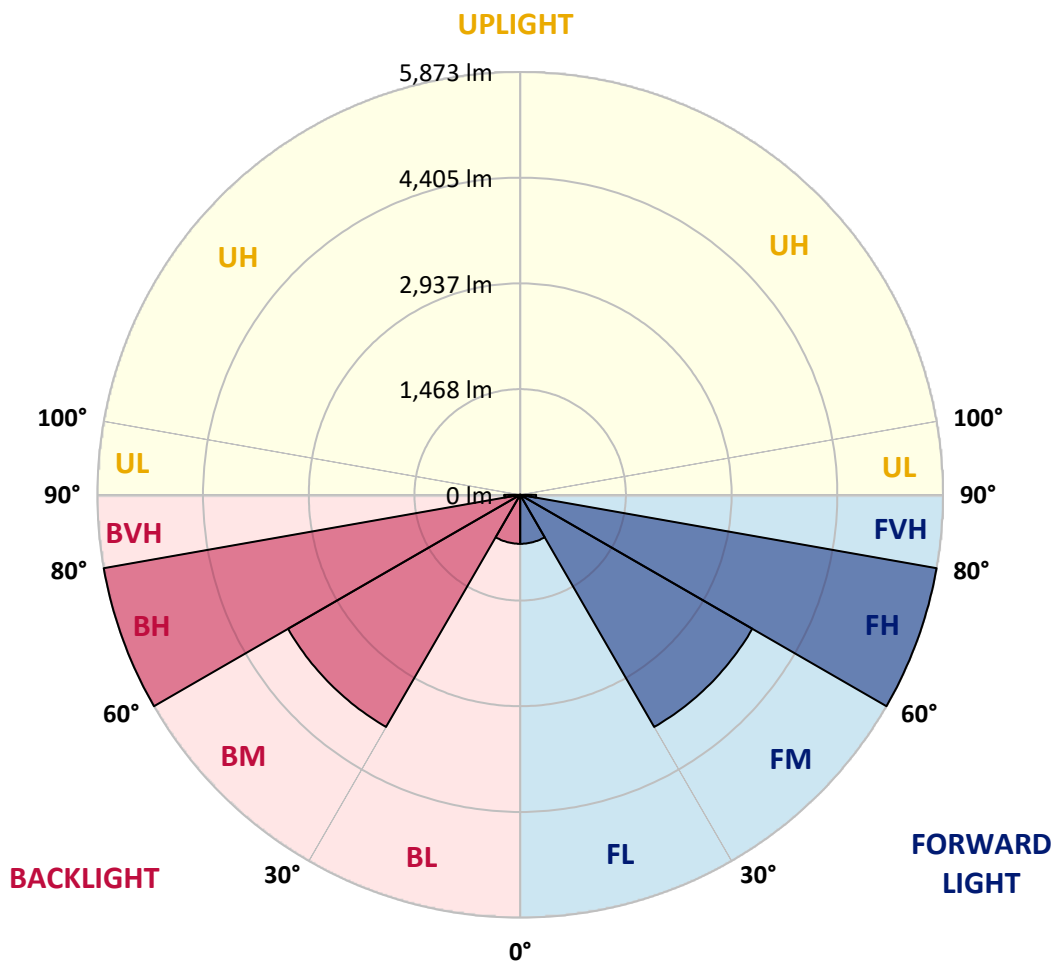
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.6	3.2			
FM (30°-60°)	3723.2	17.7			
FH (60°-80°)	5873.4	28.0			G3/7500
FVH (80°-90°)	221.8	1.1			G2/225
BL (0°-30°)	680.6	3.2	B2/1000		
BM (30°-60°)	3723.2	17.7	B3/5000		
BH (60°-80°)	5873.4	28.0	B5		G3/7500
BVH (80°-90°)	221.8	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°	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0
2.5°	1487.0	1487.9	1488.9	1487.9	1487.9	1487.0	1486.0	1487.0	1486.0	1484.1	1485.1
5°	1491.8	1493.7	1493.7	1491.8	1492.8	1491.8	1489.9	1490.8	1488.9	1486.0	1486.0
7.5°	1497.6	1498.5	1498.5	1496.6	1497.6	1495.7	1493.7	1492.8	1490.8	1487.0	1484.1
10°	1506.2	1507.2	1506.2	1504.3	1504.3	1501.4	1496.6	1494.7	1490.8	1485.1	1482.2
12.5°	1515.9	1516.8	1515.9	1514.0	1513.0	1508.2	1504.3	1501.4	1498.5	1493.7	1488.9
15°	1529.4	1531.3	1529.4	1525.5	1522.6	1518.8	1516.8	1517.8	1518.8	1514.9	1510.1
17.5°	1554.4	1555.4	1552.5	1543.8	1540.0	1536.1	1536.1	1538.0	1540.9	1539.0	1534.2
20°	1600.6	1597.7	1591.0	1580.4	1575.6	1568.8	1567.9	1568.8	1568.8	1567.9	1564.0
22.5°	1658.4	1656.5	1647.8	1634.3	1627.6	1623.7	1618.0	1613.1	1612.2	1609.3	1605.4
25°	1727.8	1726.8	1716.2	1704.6	1699.8	1695.0	1690.2	1683.5	1677.7	1670.9	1667.1
27.5°	1816.4	1812.5	1797.1	1791.3	1784.6	1781.7	1774.9	1767.2	1762.4	1753.8	1748.9
30°	1913.6	1913.6	1901.1	1899.2	1899.2	1892.4	1884.7	1871.3	1862.6	1853.9	1851.0
32.5°	2010.9	2011.9	1999.3	2003.2	2006.1	2010.9	2012.8	2008.0	2002.2	2001.3	1995.5
35°	2151.5	2147.7	2135.1	2138.0	2137.1	2136.1	2136.1	2146.7	2148.6	2150.5	2139.0
37.5°	2325.8	2325.8	2313.3	2313.3	2307.5	2301.7	2294.0	2300.8	2311.4	2314.3	2306.6
40°	2525.2	2531.9	2516.5	2515.5	2517.5	2499.2	2490.5	2501.1	2507.8	2519.4	2510.7
42.5°	2760.2	2755.4	2739.9	2738.0	2727.4	2721.6	2713.9	2722.6	2733.2	2740.9	2743.8
45°	2985.5	2981.7	2964.3	2964.3	2953.7	2948.9	2952.8	2967.2	2972.0	2982.6	2993.2
47.5°	3208.0	3203.2	3191.6	3196.4	3197.4	3206.1	3218.6	3232.1	3245.6	3260.0	3264.8
50°	3435.3	3436.2	3423.7	3435.3	3449.7	3473.8	3507.5	3529.7	3557.6	3575.9	3581.7
52.5°	3642.3	3646.2	3659.7	3686.6	3715.5	3762.7	3820.5	3874.4	3920.7	3951.5	3949.6
55°	3890.8	3896.6	3929.3	3975.6	4022.8	4094.0	4179.7	4275.1	4352.1	4396.4	4368.5
57.5°	4208.6	4221.1	4257.7	4320.3	4390.6	4483.1	4600.6	4744.1	4863.5	4923.2	4878.0
60°	4644.9	4652.6	4696.9	4766.2	4851.0	4965.6	5122.6	5315.2	5483.7	5562.7	5510.7
62.5°	5219.9	5234.3	5269.9	5340.2	5426.9	5556.9	5748.6	5989.4	6199.3	6309.1	6191.6
65°	5906.5	5952.8	5982.6	6053.9	6134.8	6272.5	6472.8	6730.9	6956.3	7028.5	6892.7
67.5°	6586.5	6626.9	6678.9	6760.8	6842.6	6997.7	7183.6	7434.0	7681.5	7747.0	7536.0
70°	6884.0	6907.2	6988.1	7099.8	7256.8	7439.7	7654.5	7935.7	8242.0	8295.9	8028.2
72.5°	6287.9	6311.0	6401.5	6591.3	6864.8	7155.6	7530.3	7943.4	8347.9	8408.6	8039.7
75°	4755.7	4718.1	4852.0	5103.3	5472.2	5877.6	6401.5	6993.8	7578.4	7654.5	7214.4
77.5°	2457.8	2452.9	2554.1	2866.1	3306.2	3767.5	4344.4	5013.8	5585.8	5817.0	5458.7
80°	692.4	700.2	748.3	903.4	1160.5	1493.7	1944.4	2571.4	3039.5	3278.3	3078.0
82.5°	271.6	292.8	311.1	340.0	373.7	422.8	564.4	839.8	1126.8	1346.4	1102.7
85°	97.3	104.0	147.4	174.3	177.2	186.8	212.8	248.5	299.5	357.3	293.7
87.5°	36.6	40.4	47.2	78.0	77.0	70.3	85.7	89.6	67.4	61.6	76.1
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°	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0
2.5°	1483.1	1484.1	1484.1	1485.1	1486.0	1486.0	1487.9	1487.9
5°	1484.1	1484.1	1482.2	1483.1	1482.2	1482.2	1483.1	1483.1
7.5°	1482.2	1481.2	1479.3	1478.3	1476.4	1476.4	1476.4	1476.4
10°	1479.3	1478.3	1476.4	1475.4	1474.5	1474.5	1474.5	1474.5
12.5°	1487.0	1484.1	1482.2	1481.2	1481.2	1481.2	1481.2	1481.2
15°	1507.2	1500.5	1495.7	1495.7	1496.6	1498.5	1498.5	1500.5
17.5°	1532.2	1524.5	1519.7	1515.9	1517.8	1520.7	1522.6	1524.5
20°	1562.1	1558.3	1551.5	1547.7	1547.7	1551.5	1553.4	1554.4
22.5°	1603.5	1600.6	1597.7	1592.9	1592.9	1594.8	1598.7	1598.7
25°	1665.2	1663.2	1661.3	1657.4	1656.5	1656.5	1658.4	1660.3
27.5°	1742.2	1743.2	1741.2	1740.3	1737.4	1736.4	1739.3	1738.3
30°	1845.2	1850.1	1854.9	1851.0	1846.2	1843.3	1840.4	1836.6
32.5°	1984.9	1979.1	1975.3	1968.5	1959.9	1952.1	1946.4	1939.6
35°	2116.8	2107.2	2103.4	2109.1	2108.2	2103.4	2096.6	2090.8
37.5°	2278.6	2276.7	2278.6	2289.2	2287.3	2292.1	2278.6	2277.7
40°	2482.8	2484.7	2498.2	2510.7	2517.5	2524.2	2516.5	2508.8
42.5°	2719.7	2718.8	2723.6	2740.9	2752.5	2760.2	2743.8	2741.9
45°	2970.1	2963.4	2967.2	2981.7	2993.2	3001.9	2983.6	2983.6
47.5°	3245.6	3234.0	3221.5	3237.9	3244.6	3250.4	3235.9	3231.1
50°	3552.8	3528.7	3501.7	3508.5	3508.5	3506.5	3488.3	3487.3
52.5°	3905.3	3861.0	3811.8	3793.5	3783.0	3771.4	3739.6	3724.2
55°	4310.7	4244.3	4167.2	4120.0	4095.0	4063.2	4010.2	3995.8
57.5°	4784.5	4680.5	4547.6	4489.8	4434.0	4382.0	4323.2	4306.9
60°	5346.0	5192.9	5016.6	4909.7	4849.1	4799.0	4738.3	4735.4
62.5°	5972.0	5730.3	5530.9	5434.6	5390.3	5346.0	5288.2	5295.9
65°	6608.6	6356.3	6169.4	6091.4	6050.0	6013.4	5955.6	5964.3
67.5°	7236.5	7004.4	6799.3	6719.4	6673.1	6626.9	6574.9	6583.6
70°	7687.2	7399.3	7168.2	6990.9	6880.2	6755.0	6674.1	6653.9
72.5°	7558.2	7114.2	6747.3	6395.8	6189.7	6022.1	5908.5	5859.3
75°	6541.2	5934.5	5462.5	5031.1	4788.4	4591.0	4447.5	4357.9
77.5°	4857.7	4175.9	3618.3	3121.3	2728.4	2464.5	2278.6	2158.2
80°	2659.0	2022.5	1478.3	1039.2	763.7	634.7	560.5	524.9
82.5°	828.2	534.5	393.9	340.0	315.9	302.4	280.3	244.6
85°	263.9	231.1	214.8	205.1	195.5	170.5	117.5	106.9
87.5°	102.1	105.0	104.0	98.2	100.2	72.2	57.8	51.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)