

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: P190891

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190891  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19580.3 lumens  
Efficiency: N/A  
Efficacy: 118.0 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): 166  
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

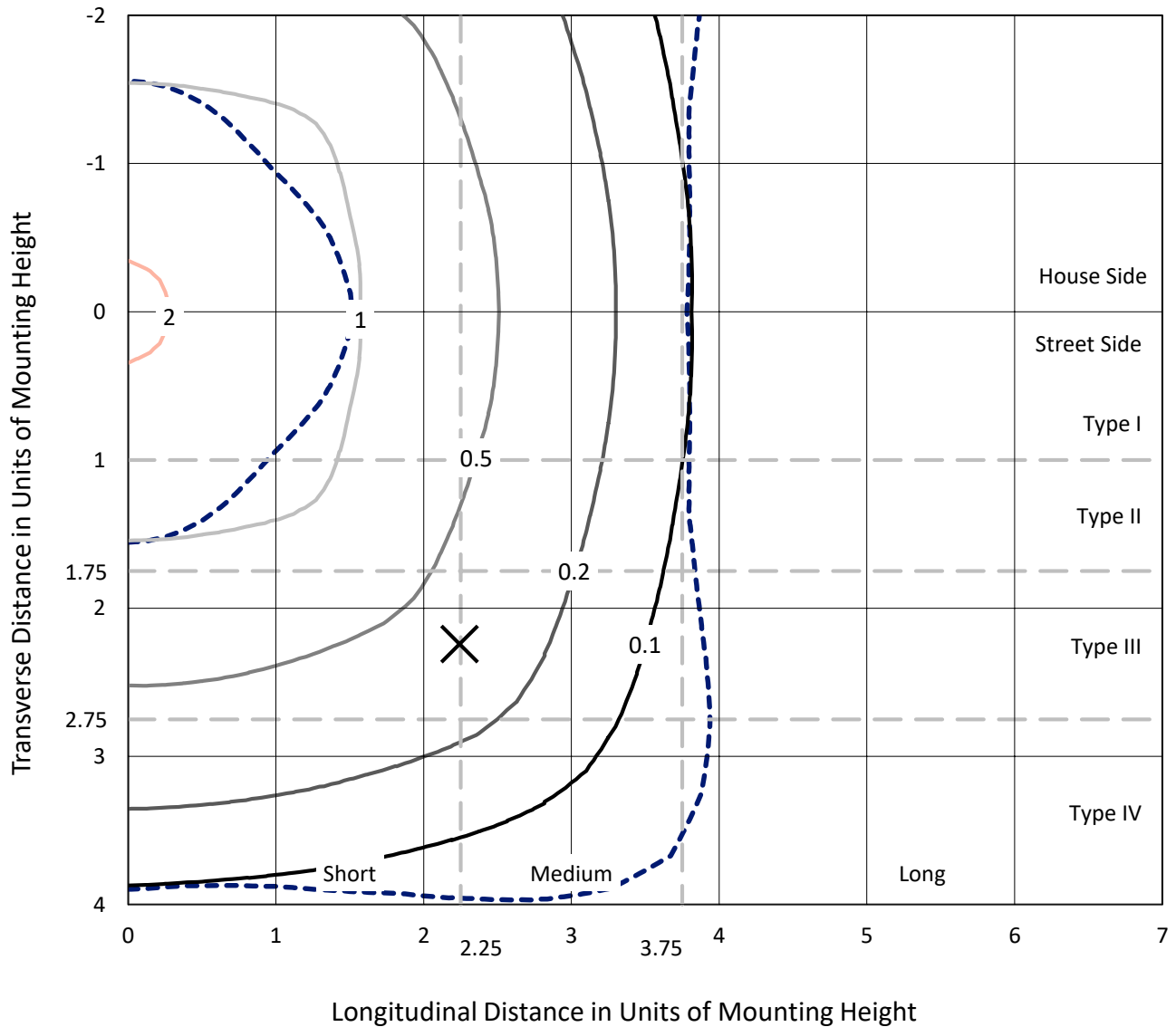


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### Iso-Footcandle Lines of Horizontal Illumination

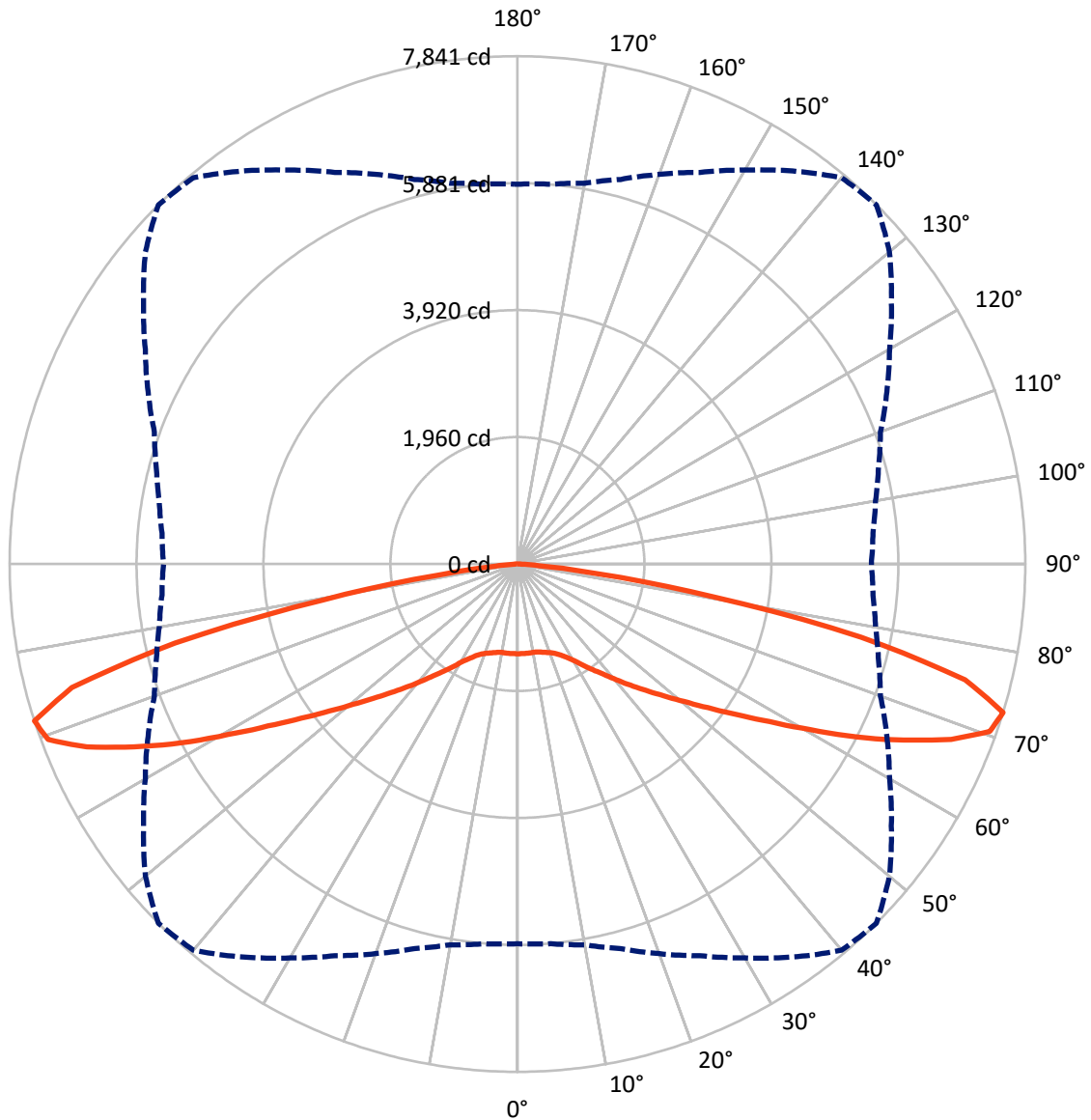
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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
<b>House Side</b>	Lumens	9790.1	0.0	9790.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9790.1	0.0	9790.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19580.3	0.0	19580.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.4	0.7
10°-20°	402.1	2.1
20°-30°	734.8	3.8
30°-40°	1267.0	6.5
40°-50°	2165.9	11.1
50°-60°	3510.7	17.9
60°-70°	5824.1	29.7
70°-80°	5129.7	26.2
80°-90°	413.6	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°	19580.3	100.0
0°-180°	19580.3	100.0



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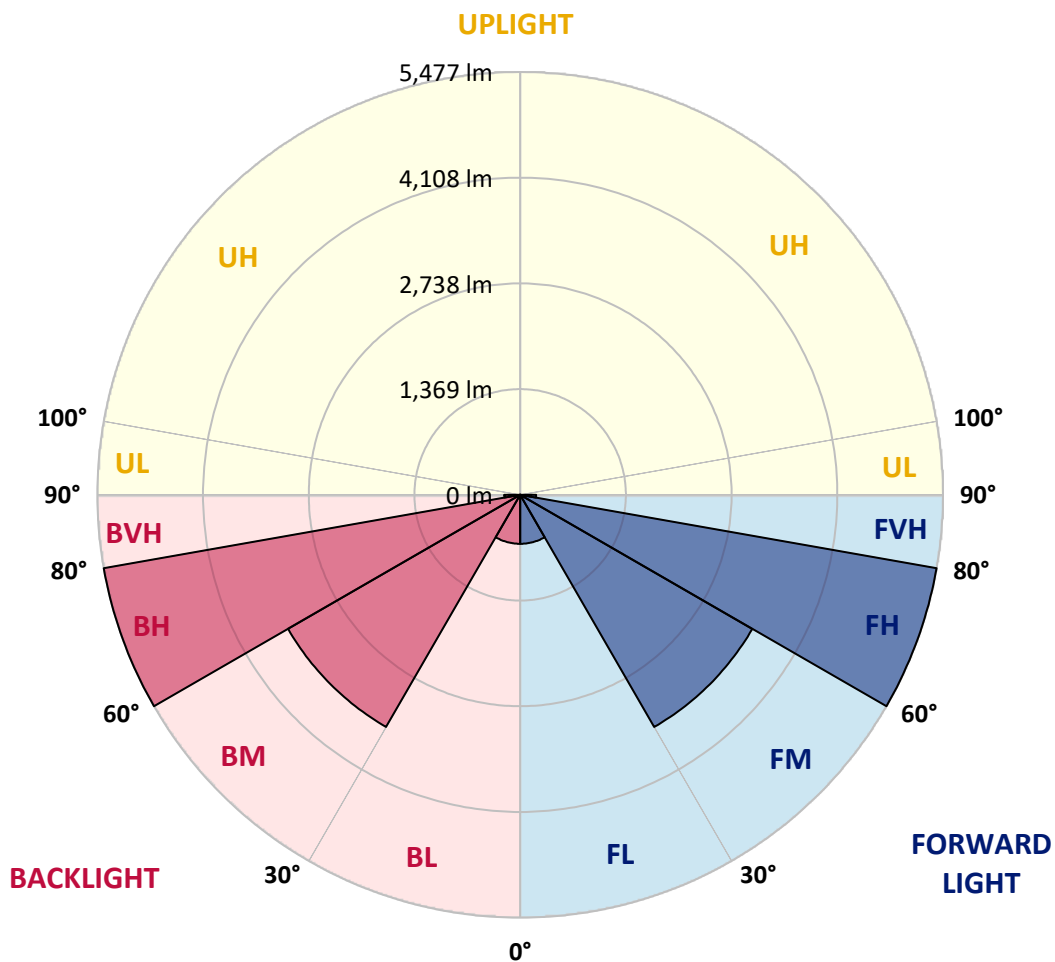
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.7	3.2			
FM	(30°-60°)	3471.8	17.7			
FH	(60°-80°)	5476.9	28.0			G3/7500
FVH	(80°-90°)	206.8	1.1			G2/225
BL	(0°-30°)	634.7	3.2	B2/1000		
BM	(30°-60°)	3471.8	17.7	B3/5000		
BH	(60°-80°)	5476.9	28.0	B5		G3/7500
BVH	(80°-90°)	206.8	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°	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1386.6	1387.5	1388.3	1387.5	1387.5	1386.6	1385.7	1386.6	1385.7	1383.8	1384.8
5°	1391.1	1392.8	1392.8	1391.1	1391.9	1391.1	1389.3	1390.2	1388.3	1385.7	1385.7
7.5°	1396.4	1397.4	1397.4	1395.6	1396.4	1394.7	1392.8	1391.9	1390.2	1386.6	1383.8
10°	1404.5	1405.4	1404.5	1402.8	1402.8	1400.0	1395.6	1393.8	1390.2	1384.8	1382.1
12.5°	1413.5	1414.4	1413.5	1411.8	1410.9	1406.4	1402.8	1400.0	1397.4	1392.8	1388.3
15°	1426.1	1427.9	1426.1	1422.5	1419.9	1416.3	1414.4	1415.4	1416.3	1412.6	1408.1
17.5°	1449.4	1450.3	1447.7	1439.6	1436.0	1432.4	1432.4	1434.2	1436.8	1435.1	1430.6
20°	1492.6	1489.8	1483.6	1473.7	1469.2	1462.9	1462.0	1462.9	1462.9	1462.0	1458.4
22.5°	1546.4	1544.7	1536.6	1524.0	1517.8	1514.1	1508.8	1504.2	1503.3	1500.7	1497.1
25°	1611.1	1610.2	1600.3	1589.6	1585.1	1580.6	1576.1	1569.8	1564.4	1558.2	1554.5
27.5°	1693.7	1690.1	1675.8	1670.4	1664.1	1661.4	1655.1	1647.9	1643.5	1635.4	1630.9
30°	1784.4	1784.4	1772.8	1770.9	1770.9	1764.7	1757.5	1744.9	1736.9	1728.8	1726.0
32.5°	1875.2	1876.0	1864.3	1867.9	1870.7	1875.2	1876.9	1872.4	1867.1	1866.2	1860.7
35°	2006.2	2002.6	1991.0	1993.6	1992.8	1991.9	1991.9	2001.7	2003.6	2005.4	1994.5
37.5°	2168.8	2168.8	2157.1	2157.1	2151.8	2146.4	2139.2	2145.4	2155.4	2158.0	2150.9
40°	2354.7	2361.0	2346.6	2345.7	2347.5	2330.5	2322.4	2332.2	2338.6	2349.3	2341.2
42.5°	2573.8	2569.3	2554.9	2553.2	2543.3	2537.9	2530.7	2538.8	2548.7	2555.8	2558.5
45°	2784.0	2780.4	2764.2	2764.2	2754.3	2749.8	2753.4	2766.9	2771.4	2781.3	2791.1
47.5°	2991.4	2986.9	2976.2	2980.7	2981.5	2989.6	3001.2	3013.8	3026.4	3039.9	3044.4
50°	3203.4	3204.3	3192.5	3203.4	3216.8	3239.3	3270.7	3291.3	3317.4	3334.4	3339.8
52.5°	3396.4	3400.0	3412.6	3437.7	3464.6	3508.7	3562.5	3612.9	3655.9	3684.7	3682.9
55°	3628.1	3633.5	3664.0	3707.2	3751.2	3817.7	3897.5	3986.4	4058.3	4099.6	4073.6
57.5°	3924.4	3936.1	3970.3	4028.7	4094.3	4180.4	4289.9	4423.8	4535.2	4590.8	4548.7
60°	4331.3	4338.4	4379.8	4444.4	4523.5	4630.4	4776.8	4956.3	5113.5	5187.2	5138.7
62.5°	4867.4	4880.9	4914.2	4979.7	5060.5	5181.8	5360.5	5585.0	5780.8	5883.1	5773.5
65°	5507.8	5550.8	5578.7	5645.2	5720.5	5849.0	6035.8	6276.5	6486.6	6553.9	6427.3
67.5°	6141.8	6179.4	6227.9	6304.3	6380.7	6525.2	6698.6	6932.0	7162.8	7223.9	7027.3
70°	6419.2	6440.8	6516.3	6620.4	6766.8	6937.4	7137.7	7399.9	7685.5	7735.8	7486.2
72.5°	5863.3	5884.9	5969.3	6146.3	6401.3	6672.5	7021.8	7407.1	7784.3	7840.9	7496.9
75°	4434.6	4399.5	4524.4	4758.8	5102.7	5480.8	5969.3	6521.6	7066.7	7137.7	6727.3
77.5°	2291.8	2287.3	2381.6	2672.6	3083.0	3513.2	4051.1	4675.3	5208.7	5424.2	5090.1
80°	645.7	652.8	697.8	842.4	1082.2	1392.8	1813.2	2397.8	2834.3	3057.0	2870.2
82.5°	253.3	273.0	290.1	317.0	348.4	394.2	526.3	783.1	1050.7	1255.5	1028.3
85°	90.7	97.0	137.4	162.5	165.2	174.2	198.5	231.7	279.3	333.2	273.9
87.5°	34.2	37.7	44.0	72.7	71.8	65.6	79.9	83.5	62.9	57.5	71.0
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°	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1383.0	1383.8	1383.8	1384.8	1385.7	1385.7	1387.5	1387.5
5°	1383.8	1383.8	1382.1	1383.0	1382.1	1382.1	1383.0	1383.0
7.5°	1382.1	1381.2	1379.4	1378.5	1376.7	1376.7	1376.7	1376.7
10°	1379.4	1378.5	1376.7	1375.8	1374.9	1374.9	1374.9	1374.9
12.5°	1386.6	1383.8	1382.1	1381.2	1381.2	1381.2	1381.2	1381.2
15°	1405.4	1399.2	1394.7	1394.7	1395.6	1397.4	1397.4	1399.2
17.5°	1428.8	1421.6	1417.1	1413.5	1415.4	1418.0	1419.9	1421.6
20°	1456.7	1453.0	1446.8	1443.2	1443.2	1446.8	1448.6	1449.4
22.5°	1495.2	1492.6	1489.8	1485.3	1485.3	1487.2	1490.7	1490.7
25°	1552.7	1550.9	1549.2	1545.6	1544.7	1544.7	1546.4	1548.2
27.5°	1624.5	1625.5	1623.6	1622.8	1620.0	1619.2	1621.9	1621.0
30°	1720.7	1725.1	1729.6	1726.0	1721.5	1718.9	1716.2	1712.6
32.5°	1850.9	1845.5	1841.9	1835.6	1827.5	1820.3	1814.9	1808.7
35°	1973.9	1964.9	1961.3	1966.7	1965.8	1961.3	1955.1	1949.6
37.5°	2124.8	2123.0	2124.8	2134.7	2132.9	2137.4	2124.8	2123.9
40°	2315.1	2317.0	2329.6	2341.2	2347.5	2353.8	2346.6	2339.4
42.5°	2536.1	2535.2	2539.7	2555.8	2566.6	2573.8	2558.5	2556.8
45°	2769.5	2763.3	2766.9	2780.4	2791.1	2799.2	2782.1	2782.1
47.5°	3026.4	3015.7	3004.0	3019.2	3025.6	3030.9	3017.4	3013.0
50°	3312.9	3290.4	3265.4	3271.6	3271.6	3269.8	3252.8	3251.9
52.5°	3641.6	3600.3	3554.4	3537.5	3527.5	3516.8	3487.1	3472.7
55°	4019.7	3957.7	3885.9	3841.9	3818.5	3788.9	3739.5	3726.0
57.5°	4461.5	4364.5	4240.6	4186.7	4134.7	4086.2	4031.3	4016.1
60°	4985.0	4842.2	4678.0	4578.2	4521.6	4475.0	4418.4	4415.7
62.5°	5568.8	5343.4	5157.5	5067.7	5026.4	4985.0	4931.2	4938.4
65°	6162.5	5927.2	5752.9	5680.1	5641.6	5607.4	5553.5	5561.6
67.5°	6748.0	6531.5	6340.2	6265.7	6222.6	6179.4	6131.0	6139.0
70°	7168.2	6899.7	6684.2	6519.0	6415.6	6298.9	6223.5	6204.6
72.5°	7047.9	6633.9	6291.8	5963.9	5771.8	5615.5	5509.5	5463.8
75°	6099.5	5533.8	5093.8	4691.5	4465.1	4281.0	4147.1	4063.7
77.5°	4529.7	3894.0	3374.0	2910.6	2544.2	2298.2	2124.8	2012.6
80°	2479.5	1885.9	1378.5	969.0	712.2	591.8	522.6	489.5
82.5°	772.3	498.4	367.3	317.0	294.6	282.0	261.4	228.1
85°	246.0	215.5	200.3	191.3	182.3	159.0	109.6	99.6
87.5°	95.2	97.9	97.0	91.6	93.4	67.3	53.9	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)