

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: P191682

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191682  
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-04-LED-E1-5WQ-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20434 lumens  
Efficiency: N/A  
Efficacy: 119.5 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): 171  
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

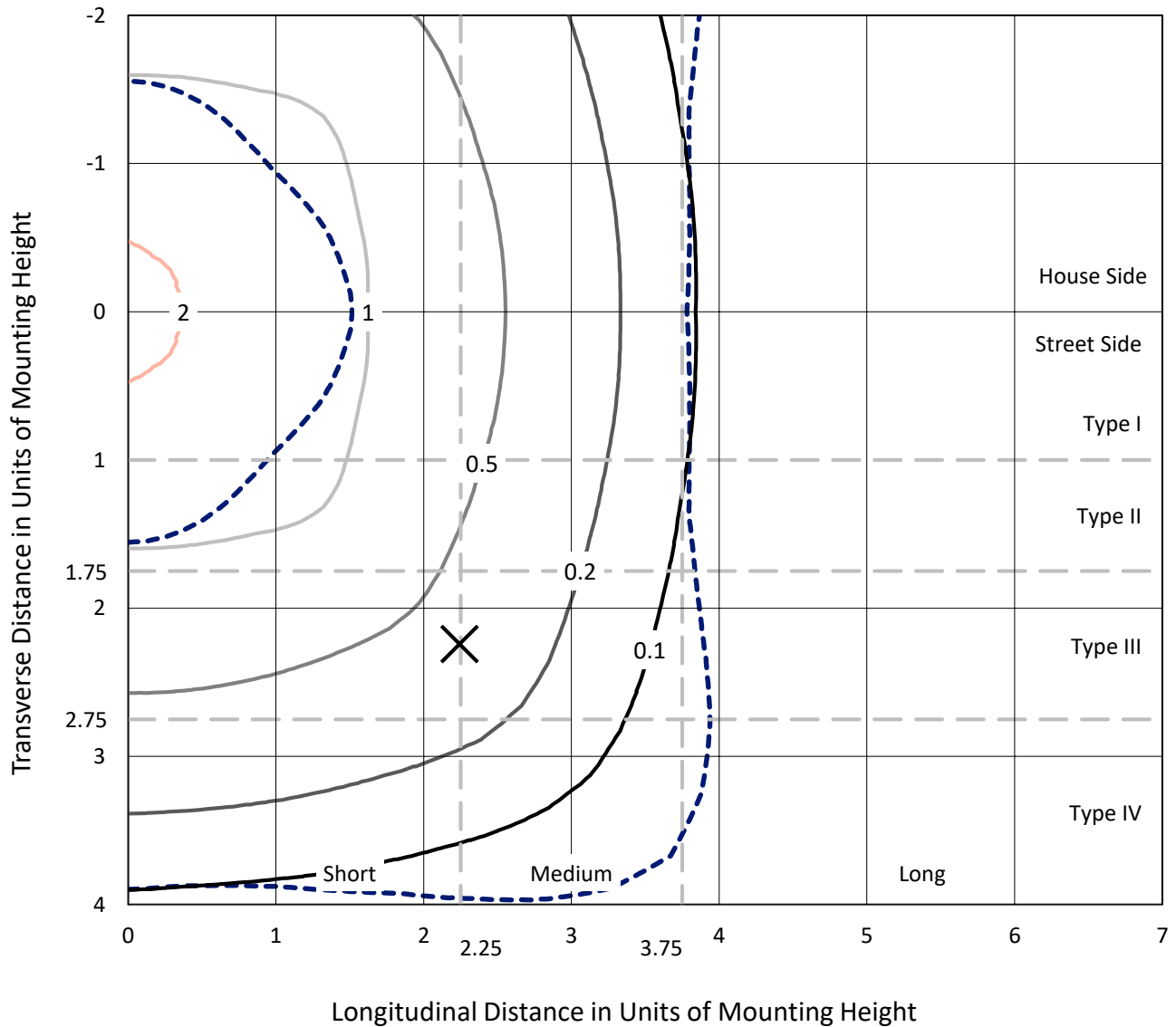


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

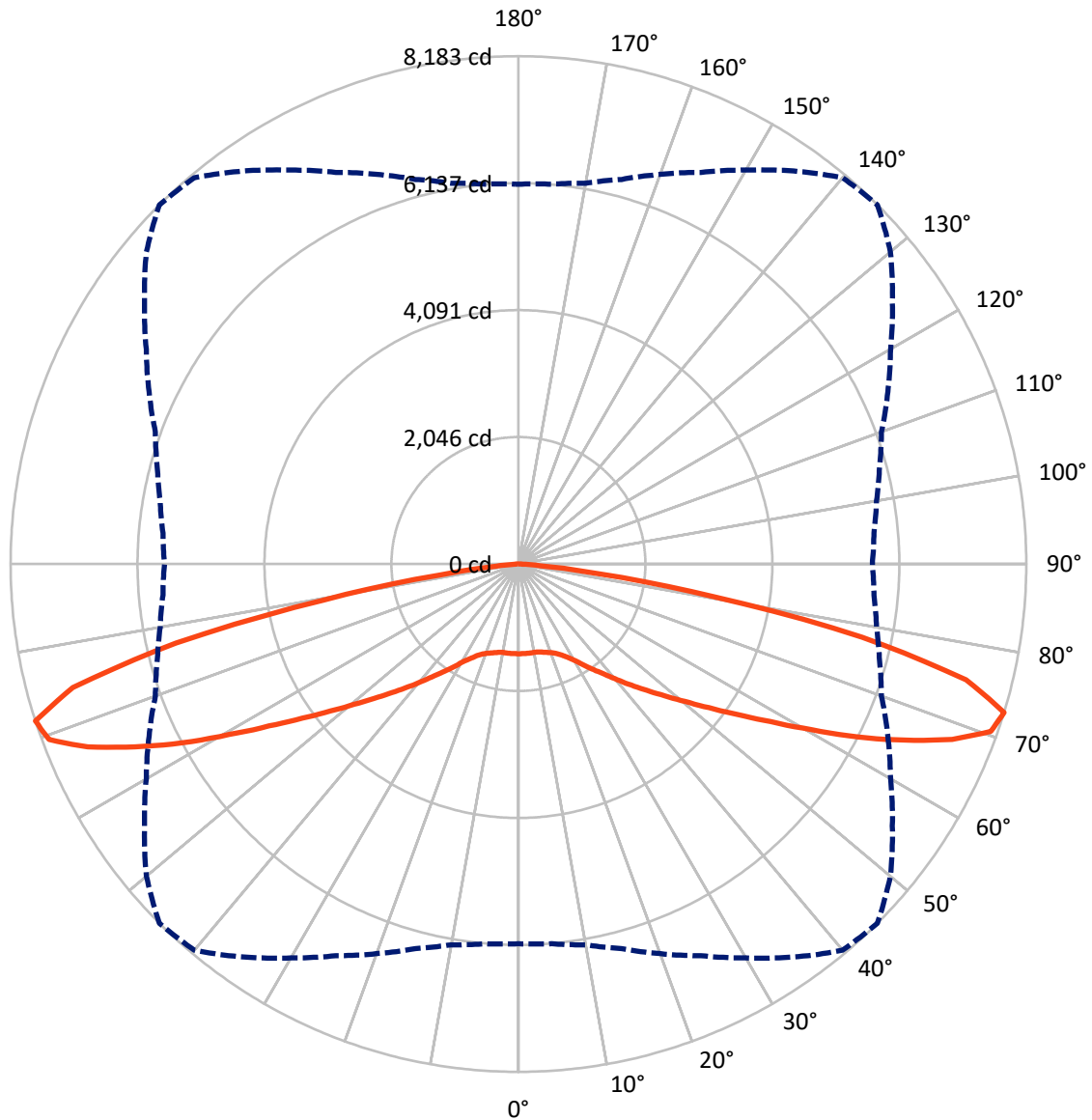


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - Semi-Cutoff

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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	10217.0	0.0	10217.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10217.0	0.0	10217.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20434.0	0.0	20434.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	0.7
10°-20°	419.7	2.1
20°-30°	766.9	3.8
30°-40°	1322.2	6.5
40°-50°	2260.3	11.1
50°-60°	3663.7	17.9
60°-70°	6078.0	29.7
70°-80°	5353.3	26.2
80°-90°	431.6	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°	20434.0	100.0
0°-180°	20434.0	100.0



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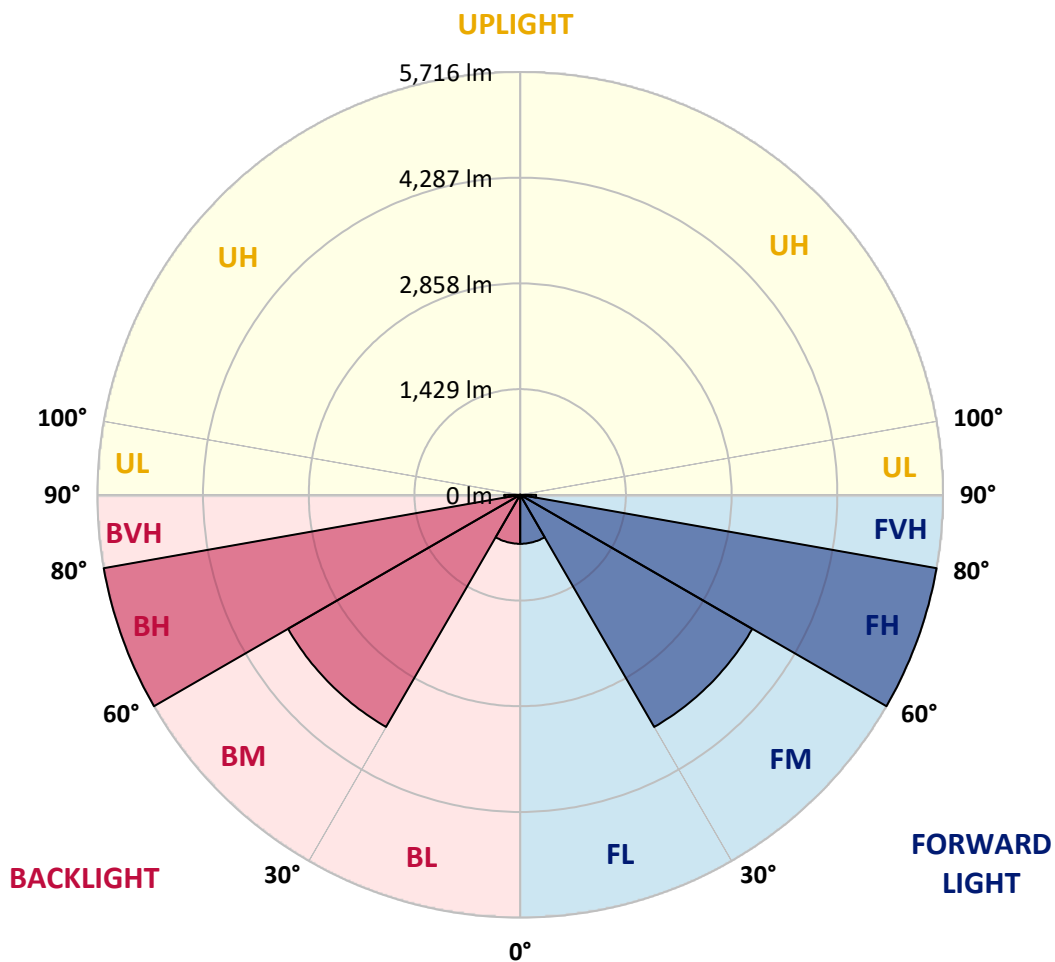
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.4	3.2			
FM (30°-60°)	3623.2	17.7			
FH (60°-80°)	5715.7	28.0			G3/7500
FVH (80°-90°)	215.8	1.1			G2/225
BL (0°-30°)	662.4	3.2	B2/1000		
BM (30°-60°)	3623.2	17.7	B3/5000		
BH (60°-80°)	5715.7	28.0	B5		G3/7500
BVH (80°-90°)	215.8	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°	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0
2.5°	1447.0	1448.0	1448.9	1448.0	1448.0	1447.0	1446.1	1447.0	1446.1	1444.2	1445.2
5°	1451.7	1453.6	1453.6	1451.7	1452.7	1451.7	1449.9	1450.8	1448.9	1446.1	1446.1
7.5°	1457.4	1458.3	1458.3	1456.4	1457.4	1455.5	1453.6	1452.7	1450.8	1447.0	1444.2
10°	1465.8	1466.7	1465.8	1463.9	1463.9	1461.1	1456.4	1454.5	1450.8	1445.2	1442.4
12.5°	1475.2	1476.1	1475.2	1473.3	1472.3	1467.7	1463.9	1461.1	1458.3	1453.6	1448.9
15°	1488.3	1490.2	1488.3	1484.5	1481.7	1478.0	1476.1	1477.0	1478.0	1474.2	1469.5
17.5°	1512.6	1513.6	1510.8	1502.3	1498.6	1494.8	1494.8	1496.7	1499.5	1497.7	1493.0
20°	1557.6	1554.8	1548.3	1538.0	1533.3	1526.7	1525.8	1526.7	1526.7	1525.8	1522.0
22.5°	1613.9	1612.0	1603.6	1590.4	1583.9	1580.1	1574.5	1569.8	1568.9	1566.1	1562.3
25°	1681.3	1680.4	1670.1	1658.9	1654.2	1649.5	1644.8	1638.2	1632.6	1626.1	1622.3
27.5°	1767.6	1763.8	1748.8	1743.2	1736.6	1733.8	1727.3	1719.8	1715.1	1706.7	1702.0
30°	1862.2	1862.2	1850.0	1848.2	1848.2	1841.6	1834.1	1821.0	1812.6	1804.1	1801.3
32.5°	1956.9	1957.8	1945.6	1949.4	1952.2	1956.9	1958.8	1954.1	1948.4	1947.5	1941.9
35°	2093.7	2090.0	2077.8	2080.6	2079.7	2078.7	2078.7	2089.0	2090.9	2092.8	2081.5
37.5°	2263.4	2263.4	2251.2	2251.2	2245.5	2239.9	2232.4	2239.0	2249.3	2252.1	2244.6
40°	2457.4	2463.9	2448.9	2448.0	2449.9	2432.0	2423.6	2433.9	2440.5	2451.7	2443.3
42.5°	2686.0	2681.3	2666.3	2664.5	2654.2	2648.5	2641.0	2649.5	2659.8	2667.3	2670.1
45°	2905.3	2901.6	2884.7	2884.7	2874.4	2869.7	2873.5	2887.5	2892.2	2902.5	2912.8
47.5°	3121.8	3117.1	3105.9	3110.6	3111.5	3120.0	3132.1	3145.3	3158.4	3172.4	3177.1
50°	3343.0	3343.9	3331.8	3343.0	3357.1	3380.5	3413.3	3434.9	3462.0	3479.8	3485.5
52.5°	3544.5	3548.3	3561.4	3587.6	3615.7	3661.7	3717.9	3770.4	3815.4	3845.4	3843.5
55°	3786.3	3791.9	3823.8	3868.8	3914.7	3984.1	4067.5	4160.3	4235.2	4278.3	4251.2
57.5°	4095.6	4107.8	4143.4	4204.3	4272.7	4362.7	4477.0	4616.7	4732.9	4791.0	4746.9
60°	4520.1	4527.6	4570.7	4638.2	4720.7	4832.2	4985.0	5172.4	5336.4	5413.3	5362.7
62.5°	5079.7	5093.7	5128.4	5196.8	5281.2	5407.7	5594.2	5828.5	6032.8	6139.6	6025.3
65°	5747.9	5792.9	5821.9	5891.3	5970.0	6104.0	6299.0	6550.1	6769.4	6839.7	6707.6
67.5°	6409.5	6448.9	6499.5	6579.2	6658.8	6809.7	6990.6	7234.3	7475.1	7538.9	7333.6
70°	6699.1	6721.6	6800.4	6909.1	7061.8	7239.9	7448.9	7722.6	8020.6	8073.1	7812.5
72.5°	6119.0	6141.5	6229.6	6414.2	6680.4	6963.4	7328.0	7730.1	8123.7	8182.7	7823.8
75°	4627.9	4591.4	4721.6	4966.2	5325.2	5719.8	6229.6	6806.0	7374.9	7448.9	7020.6
77.5°	2391.7	2387.1	2485.5	2789.1	3217.4	3666.3	4227.7	4879.1	5435.8	5660.7	5312.1
80°	673.9	681.3	728.2	879.1	1129.3	1453.6	1892.2	2502.3	2957.8	3190.2	2995.3
82.5°	264.3	284.9	302.7	330.8	363.6	411.4	549.2	817.2	1096.5	1310.2	1073.1
85°	94.7	101.2	143.4	169.6	172.4	181.8	207.1	241.8	291.5	347.7	285.8
87.5°	35.6	39.4	45.9	75.9	75.0	68.4	83.4	87.2	65.6	60.0	74.0
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°	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0	1447.0
2.5°	1443.3	1444.2	1444.2	1445.2	1446.1	1446.1	1448.0	1448.0
5°	1444.2	1444.2	1442.4	1443.3	1442.4	1442.4	1443.3	1443.3
7.5°	1442.4	1441.4	1439.5	1438.6	1436.7	1436.7	1436.7	1436.7
10°	1439.5	1438.6	1436.7	1435.8	1434.9	1434.9	1434.9	1434.9
12.5°	1447.0	1444.2	1442.4	1441.4	1441.4	1441.4	1441.4	1441.4
15°	1466.7	1460.2	1455.5	1455.5	1456.4	1458.3	1458.3	1460.2
17.5°	1491.1	1483.6	1478.9	1475.2	1477.0	1479.8	1481.7	1483.6
20°	1520.1	1516.4	1509.8	1506.1	1506.1	1509.8	1511.7	1512.6
22.5°	1560.4	1557.6	1554.8	1550.1	1550.1	1552.0	1555.8	1555.8
25°	1620.4	1618.6	1616.7	1612.9	1612.0	1612.0	1613.9	1615.7
27.5°	1695.4	1696.3	1694.5	1693.5	1690.7	1689.8	1692.6	1691.7
30°	1795.7	1800.4	1805.1	1801.3	1796.6	1793.8	1791.0	1787.3
32.5°	1931.6	1926.0	1922.2	1915.6	1907.2	1899.7	1894.1	1887.5
35°	2060.0	2050.6	2046.9	2052.5	2051.5	2046.9	2040.3	2034.7
37.5°	2217.4	2215.6	2217.4	2227.7	2225.9	2230.5	2217.4	2216.5
40°	2416.1	2418.0	2431.1	2443.3	2449.9	2456.4	2448.9	2441.4
42.5°	2646.7	2645.7	2650.4	2667.3	2678.5	2686.0	2670.1	2668.2
45°	2890.3	2883.8	2887.5	2901.6	2912.8	2921.3	2903.5	2903.5
47.5°	3158.4	3147.1	3135.0	3150.9	3157.4	3163.1	3149.0	3144.3
50°	3457.3	3433.9	3407.7	3414.2	3414.2	3412.4	3394.6	3393.6
52.5°	3800.4	3757.3	3709.5	3691.7	3681.3	3670.1	3639.2	3624.2
55°	4194.9	4130.3	4055.3	4009.4	3985.0	3954.1	3902.5	3888.5
57.5°	4656.0	4554.8	4425.5	4369.3	4314.9	4264.3	4207.1	4191.2
60°	5202.4	5053.4	4881.9	4777.9	4718.8	4670.1	4611.0	4608.2
62.5°	5811.6	5576.4	5382.4	5288.6	5245.5	5202.4	5146.2	5153.7
65°	6431.1	6185.6	6003.7	5927.8	5887.5	5851.9	5795.7	5804.1
67.5°	7042.2	6816.3	6616.7	6538.9	6493.9	6448.9	6398.3	6406.7
70°	7480.8	7200.5	6975.6	6803.2	6695.4	6573.6	6494.8	6475.1
72.5°	7355.2	6923.1	6566.1	6224.0	6023.4	5860.3	5749.8	5702.0
75°	6365.5	5775.1	5315.8	4896.0	4659.8	4467.7	4328.0	4240.9
77.5°	4727.3	4063.7	3521.1	3037.5	2655.1	2398.3	2217.4	2100.3
80°	2587.6	1968.1	1438.6	1011.2	743.2	617.6	545.5	510.8
82.5°	806.0	520.1	383.3	330.8	307.4	294.3	272.7	238.1
85°	256.8	224.9	209.0	199.6	190.3	165.9	114.3	104.0
87.5°	99.3	102.2	101.2	95.6	97.5	70.3	56.2	49.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)