

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: P191601

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
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-E1-5MQ-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15424 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 124  
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

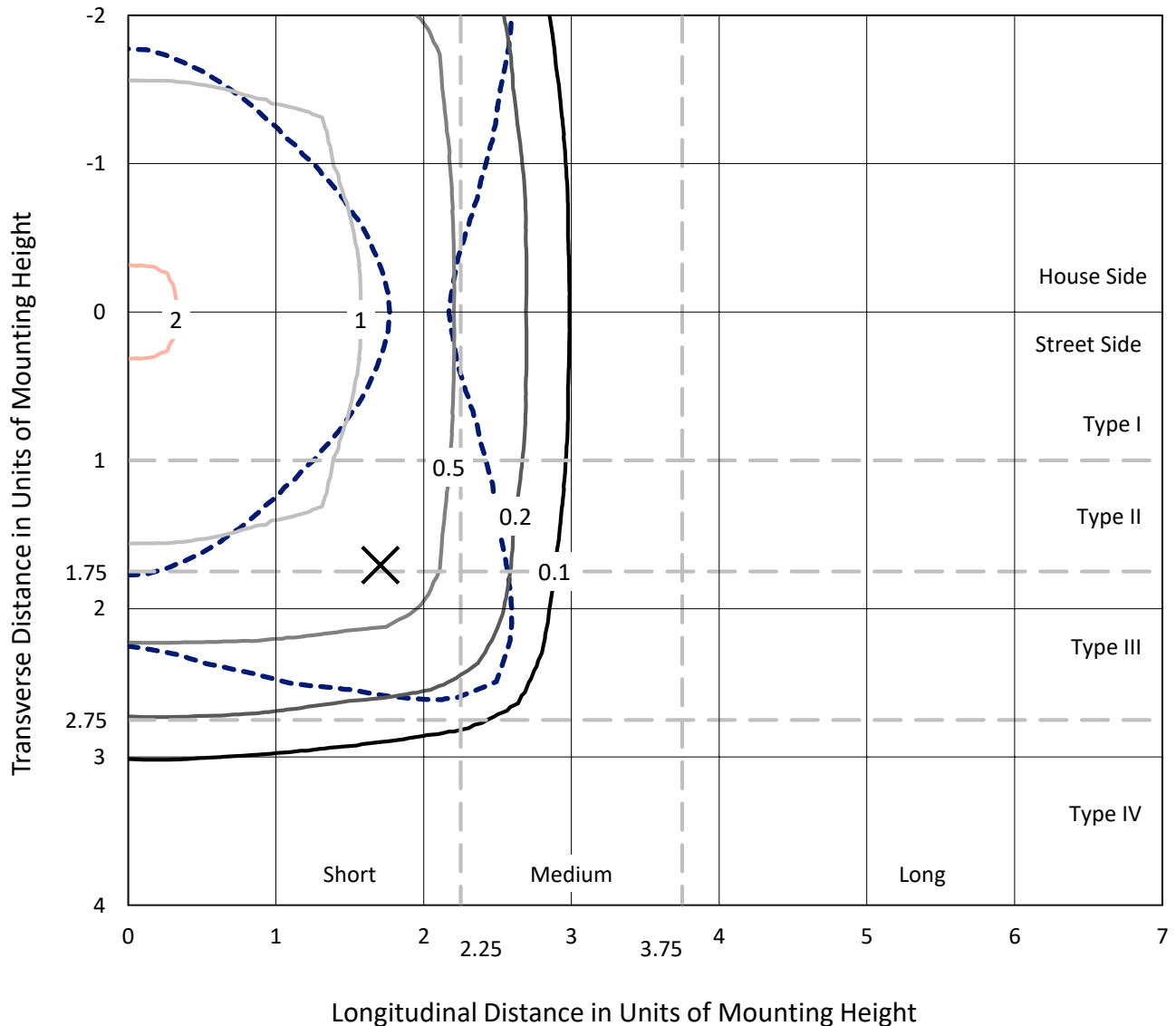


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### Iso-Footcandle Lines of Horizontal Illumination

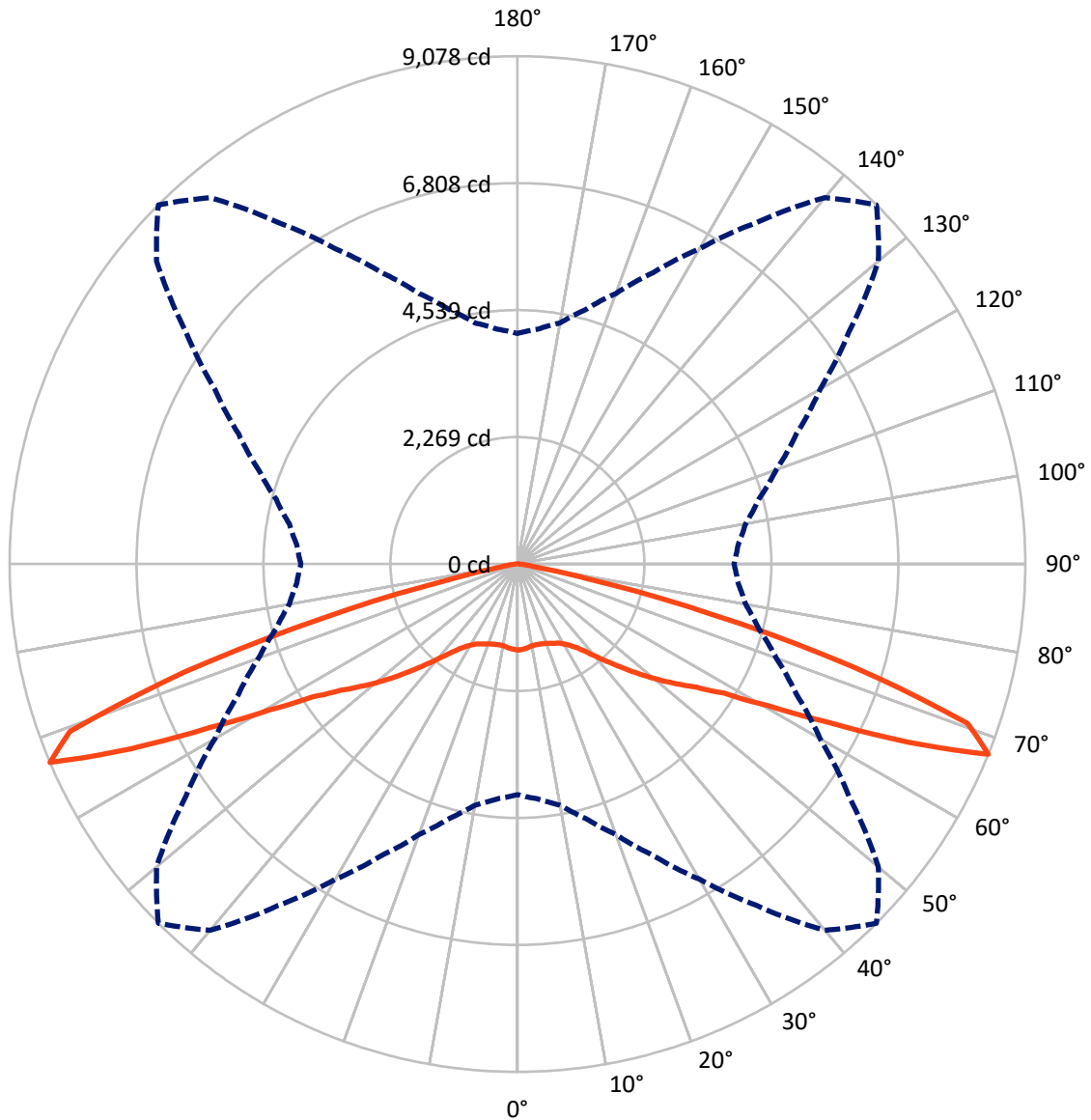
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7712.0	0.0	7712.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7712.0	0.0	7712.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15424.0	0.0	15424.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.9	0.9
10°-20°	417.5	2.7
20°-30°	709.7	4.6
30°-40°	1160.1	7.5
40°-50°	2071.0	13.4
50°-60°	3491.7	22.6
60°-70°	5418.7	35.1
70°-80°	1903.9	12.3
80°-90°	107.6	0.7
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°	15424.0	100.0
0°-180°	15424.0	100.0



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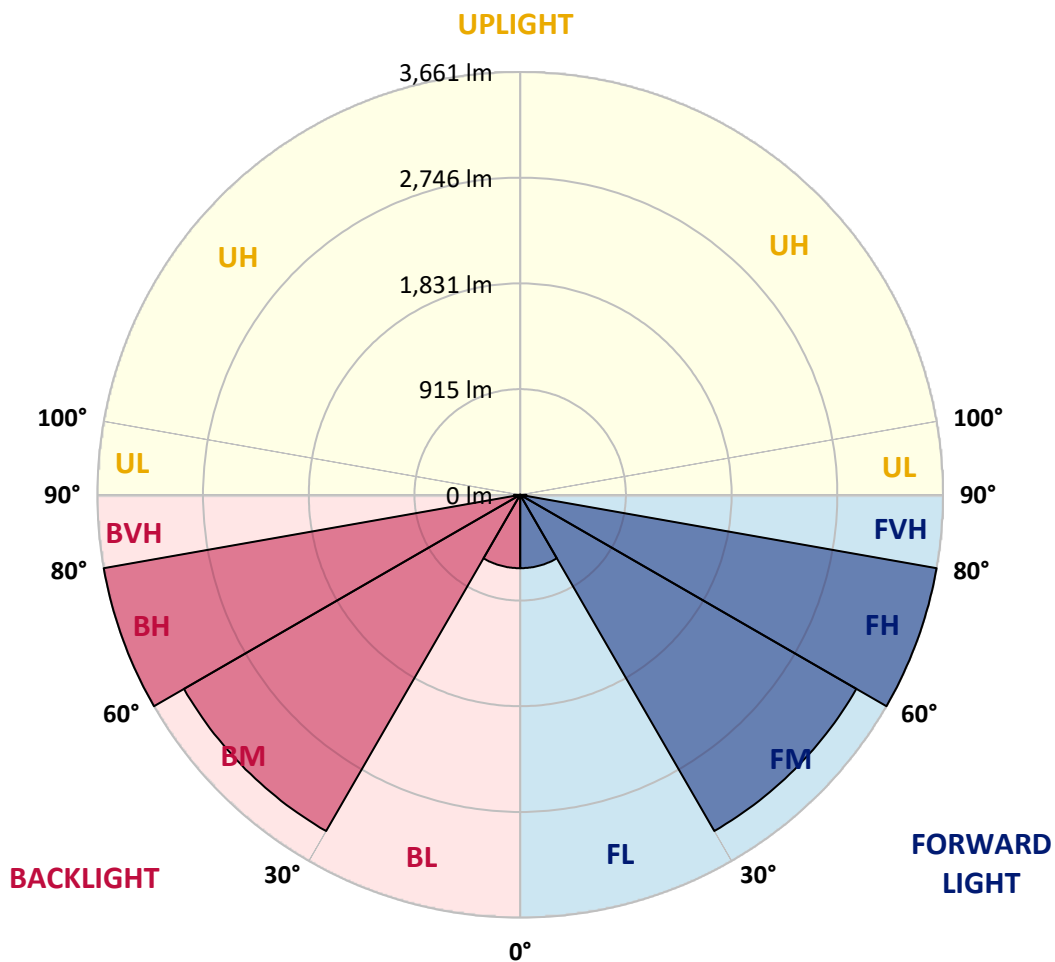
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.5	4.1			
FM (30°-60°)	3361.4	21.8			
FH (60°-80°)	3661.3	23.7			G2/5000
FVH (80°-90°)	53.8	0.3			G1/100
BL (0°-30°)	635.5	4.1	B2/1000		
BM (30°-60°)	3361.4	21.8	B3/5000		
BH (60°-80°)	3661.3	23.7	B4/5000		G2/5000
BVH (80°-90°)	53.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1537.1	1537.1	1537.1	1537.1	1537.1	1537.1	1537.1	1537.1	1537.1	1537.1	1537.1
2.5°	1531.4	1532.8	1532.8	1532.8	1532.1	1532.1	1530.7	1532.1	1531.4	1529.3	1530.0
5°	1518.6	1520.0	1520.0	1519.3	1521.5	1520.8	1518.6	1520.0	1519.3	1517.9	1518.6
7.5°	1500.2	1502.3	1502.3	1501.6	1503.7	1503.0	1501.6	1502.3	1502.3	1500.2	1500.2
10°	1479.6	1481.0	1481.0	1480.3	1483.9	1483.9	1483.2	1485.3	1486.0	1483.9	1482.5
12.5°	1460.5	1462.6	1462.6	1465.4	1469.0	1470.4	1473.9	1476.8	1479.6	1478.9	1476.1
15°	1449.1	1450.5	1453.4	1456.9	1462.6	1467.6	1473.2	1479.6	1485.3	1486.7	1482.5
17.5°	1442.0	1444.1	1448.4	1453.4	1461.2	1469.7	1478.2	1486.7	1494.5	1497.3	1492.4
20°	1439.9	1441.3	1445.6	1454.1	1464.7	1477.5	1489.5	1499.5	1510.1	1513.7	1510.1
22.5°	1444.1	1447.0	1451.9	1461.9	1476.1	1492.4	1506.6	1520.0	1533.5	1539.9	1534.9
25°	1463.3	1466.1	1472.5	1485.3	1500.9	1517.9	1534.2	1549.8	1561.9	1568.3	1564.7
27.5°	1498.8	1502.3	1510.1	1522.9	1539.9	1558.3	1576.1	1588.8	1598.8	1600.9	1596.6
30°	1552.0	1559.8	1569.0	1583.2	1603.0	1618.6	1636.4	1647.7	1659.8	1659.8	1656.2
32.5°	1635.0	1642.8	1652.7	1666.2	1681.8	1698.8	1714.4	1724.3	1737.1	1737.8	1729.3
35°	1759.1	1762.6	1771.1	1779.6	1793.8	1808.7	1822.2	1828.6	1839.2	1839.9	1832.1
37.5°	1922.9	1923.6	1929.3	1932.2	1944.9	1961.2	1974.0	1978.3	1988.2	1986.8	1979.0
40°	2113.7	2117.3	2119.4	2123.7	2137.1	2152.7	2166.2	2168.3	2179.0	2176.9	2166.9
42.5°	2334.3	2335.7	2347.8	2354.2	2367.0	2374.8	2391.8	2393.9	2406.7	2401.0	2389.7
45°	2581.9	2594.6	2606.0	2618.8	2632.2	2641.5	2654.9	2652.1	2660.6	2652.1	2645.7
47.5°	2842.2	2851.4	2876.9	2896.8	2918.8	2926.6	2945.7	2937.2	2945.7	2933.7	2931.6
50°	3128.7	3145.1	3167.1	3189.8	3213.2	3225.9	3250.8	3240.1	3251.5	3240.1	3233.7
52.5°	3411.1	3415.3	3463.5	3496.9	3529.5	3544.4	3559.3	3554.3	3555.0	3554.3	3547.9
55°	3679.2	3689.1	3737.3	3782.7	3839.5	3881.3	3906.9	3904.0	3897.6	3891.3	3880.6
57.5°	3981.3	3991.3	4046.6	4102.6	4167.2	4226.8	4278.5	4331.7	4352.3	4358.0	4334.6
60°	4389.9	4389.2	4463.0	4531.0	4623.3	4711.9	4825.4	4941.0	5073.7	5135.4	5053.8
62.5°	4805.5	4822.6	4929.0	5049.6	5239.6	5424.8	5634.0	5839.7	6049.7	6220.6	6039.0
65°	4755.9	4821.2	4979.3	5252.4	5603.5	6020.6	6471.7	6949.1	7380.3	7676.8	7344.2
67.5°	4121.8	4214.7	4375.7	4707.7	5146.7	5748.2	6505.8	7449.8	8547.1	9077.7	8420.2
70°	2987.6	3092.6	3261.4	3585.5	4020.3	4592.0	5414.8	6548.3	8001.0	8535.8	7811.6
72.5°	1486.7	1543.5	1647.7	1854.1	2183.2	2647.1	3393.3	4482.8	5768.1	6258.9	5597.1
75°	505.0	531.3	549.0	616.4	720.7	902.9	1273.9	1959.8	2989.7	3584.1	2947.2
77.5°	291.5	292.2	304.3	316.4	334.1	353.9	403.6	529.9	916.4	1301.6	948.3
80°	188.7	188.0	197.9	207.1	219.2	229.1	231.9	245.4	283.0	335.5	300.0
82.5°	97.9	109.9	131.9	144.0	166.7	170.9	165.3	160.3	169.5	175.9	180.2
85°	53.9	46.8	70.2	90.8	100.7	102.1	102.1	96.5	100.0	97.9	106.4
87.5°	24.8	22.7	27.7	44.7	47.5	40.4	42.6	37.6	27.0	26.2	29.8
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°	1537.1	1537.1	1537.1	1537.1	1537.1	1537.1	1537.1	1537.1
2.5°	1530.0	1530.7	1530.7	1532.8	1533.5	1534.9	1536.4	1537.1
5°	1517.9	1520.0	1518.6	1520.8	1520.8	1522.2	1522.2	1522.9
7.5°	1500.2	1502.3	1502.3	1502.3	1501.6	1503.7	1503.7	1503.7
10°	1481.7	1483.2	1482.5	1481.0	1479.6	1481.7	1481.0	1480.3
12.5°	1476.1	1472.5	1469.7	1468.3	1465.4	1466.1	1464.0	1464.0
15°	1479.6	1473.2	1468.3	1466.1	1463.3	1461.9	1460.5	1461.2
17.5°	1488.8	1481.0	1474.6	1471.1	1467.6	1465.4	1462.6	1463.3
20°	1505.1	1495.9	1486.7	1479.6	1473.2	1469.7	1467.6	1466.8
22.5°	1529.3	1515.8	1502.3	1491.7	1483.2	1478.2	1476.1	1474.6
25°	1556.9	1542.0	1526.4	1514.4	1505.9	1499.5	1495.2	1495.2
27.5°	1591.7	1579.6	1565.4	1551.3	1543.5	1537.1	1534.2	1532.8
30°	1649.8	1638.5	1627.1	1613.7	1603.7	1597.4	1592.4	1588.1
32.5°	1724.3	1715.1	1705.9	1696.0	1686.7	1678.2	1670.4	1666.9
35°	1829.3	1822.2	1815.8	1804.5	1800.9	1796.0	1791.7	1788.2
37.5°	1974.0	1971.2	1971.2	1959.1	1956.3	1954.1	1949.9	1950.6
40°	2164.1	2166.9	2163.4	2159.1	2157.0	2151.3	2151.3	2156.3
42.5°	2388.9	2391.1	2398.9	2391.8	2399.6	2392.5	2388.2	2391.8
45°	2650.0	2657.8	2673.4	2666.3	2671.2	2659.2	2644.3	2645.0
47.5°	2942.9	2950.0	2956.4	2951.4	2952.1	2932.3	2912.4	2907.4
50°	3247.2	3250.0	3253.6	3246.5	3247.9	3225.9	3203.2	3203.9
52.5°	3547.9	3561.4	3575.6	3556.5	3552.2	3527.4	3495.5	3482.7
55°	3892.0	3911.1	3894.8	3861.5	3828.1	3794.8	3752.9	3745.8
57.5°	4316.1	4283.5	4232.4	4169.3	4123.2	4076.4	4033.8	4016.1
60°	4906.3	4783.6	4691.4	4597.7	4538.9	4481.4	4425.4	4416.9
62.5°	5740.4	5528.3	5344.6	5151.0	4992.8	4869.4	4770.8	4743.1
65°	6785.9	6284.5	5849.6	5443.9	5091.4	4825.4	4658.0	4584.2
67.5°	7235.6	6245.4	5500.0	4924.0	4463.0	4140.9	3960.1	3870.0
70°	6358.2	5179.4	4368.6	3792.0	3372.0	3028.7	2864.9	2768.4
72.5°	4374.3	3294.7	2605.3	2126.5	1791.0	1503.7	1390.2	1381.7
75°	1964.1	1300.9	896.6	690.9	581.6	505.7	482.3	464.6
77.5°	549.7	406.4	362.5	339.0	316.4	290.1	280.2	282.3
80°	267.4	252.5	242.6	227.7	207.1	185.1	175.2	179.5
82.5°	177.3	175.2	181.6	170.9	141.2	119.9	100.7	92.2
85°	107.8	109.2	111.4	112.1	95.0	66.7	45.4	51.1
87.5°	42.6	48.9	53.2	55.3	51.8	31.9	25.5	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)