

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: P191592

Luminaire Tested: **GLEON-AF-04-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191592  
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-04-LED-E1-5MQ-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16619 lumens  
Efficiency: N/A  
Efficacy: 128.8 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): 129  
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

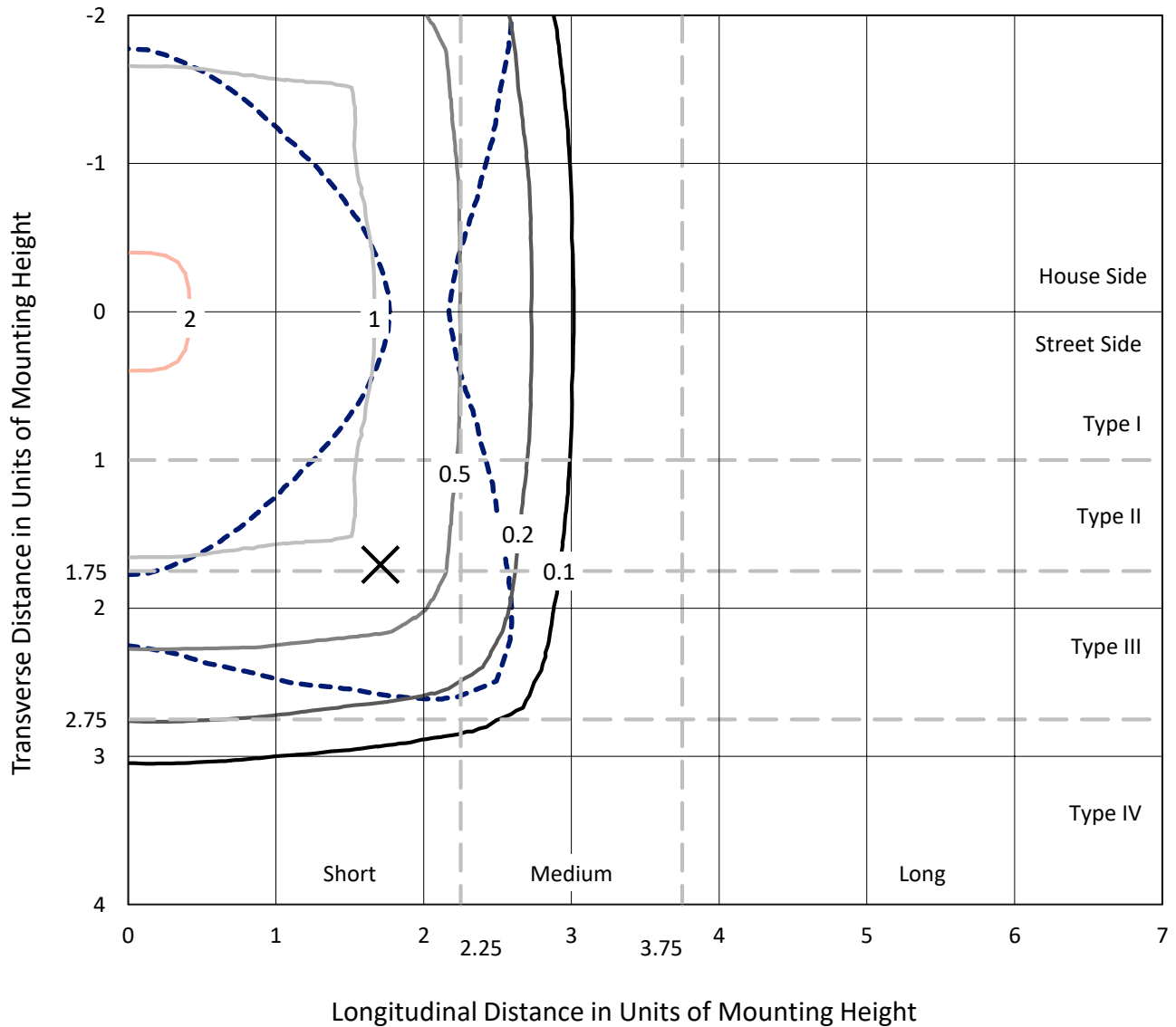


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### Iso-Footcandle Lines of Horizontal Illumination

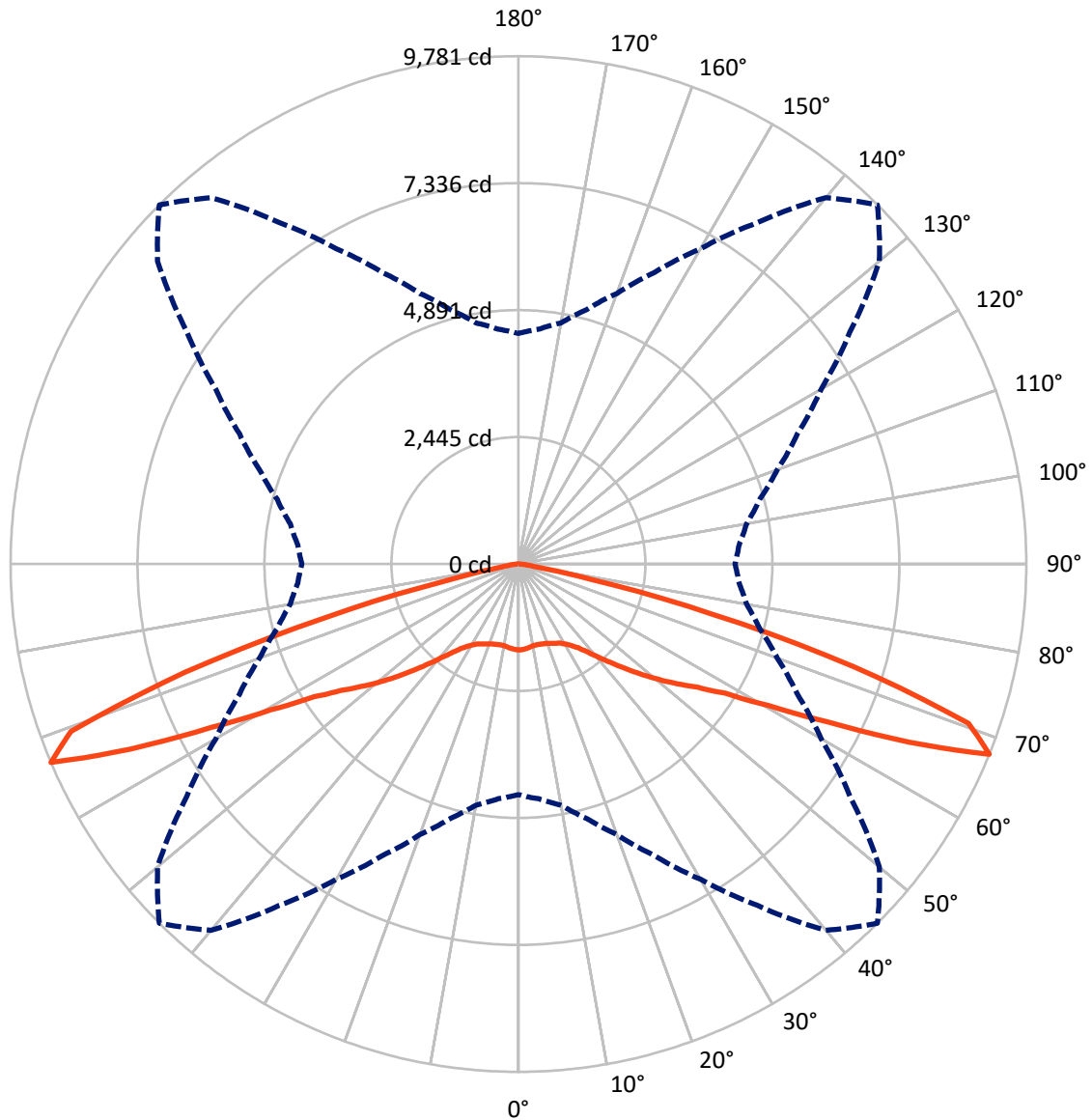
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	8309.5	0.0	8309.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8309.5	0.0	8309.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16619.0	0.0	16619.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.0	0.9
10°-20°	449.8	2.7
20°-30°	764.7	4.6
30°-40°	1250.0	7.5
40°-50°	2231.4	13.4
50°-60°	3762.3	22.6
60°-70°	5838.5	35.1
70°-80°	2051.4	12.3
80°-90°	115.9	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°	16619.0	100.0
0°-180°	16619.0	100.0



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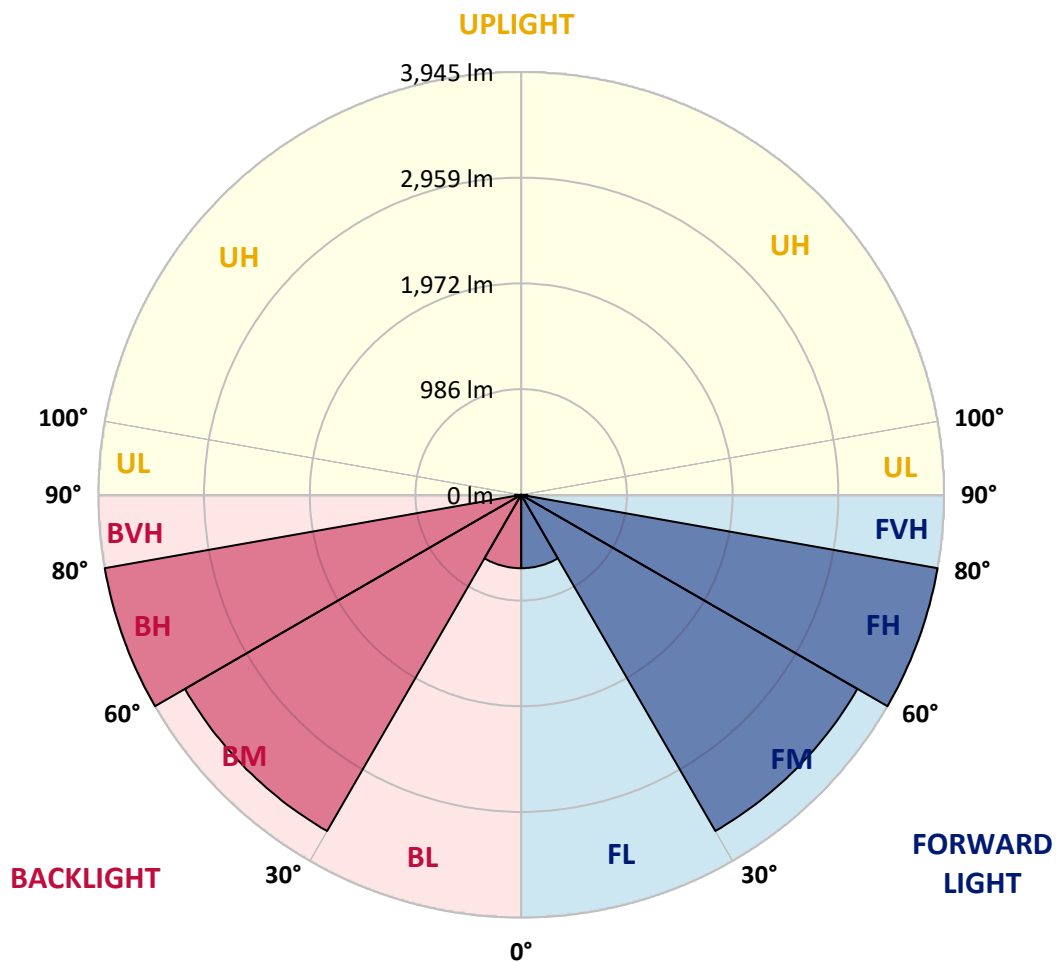
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.7	4.1			
FM (30°-60°)	3621.8	21.8			
FH (60°-80°)	3944.9	23.7			G2/5000
FVH (80°-90°)	58.0	0.3			G1/100
BL (0°-30°)	684.7	4.1	B2/1000		
BM (30°-60°)	3621.8	21.8	B3/5000		
BH (60°-80°)	3944.9	23.7	B4/5000		G2/5000
BVH (80°-90°)	58.0	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°	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2
2.5°	1650.0	1651.6	1651.6	1651.6	1650.8	1650.8	1649.3	1650.8	1650.0	1647.7	1648.5
5°	1636.3	1637.8	1637.8	1637.0	1639.3	1638.6	1636.3	1637.8	1637.0	1635.5	1636.3
7.5°	1616.4	1618.7	1618.7	1617.9	1620.2	1619.5	1617.9	1618.7	1618.7	1616.4	1616.4
10°	1594.2	1595.8	1595.8	1595.0	1598.8	1598.8	1598.1	1600.4	1601.1	1598.8	1597.3
12.5°	1573.6	1575.9	1575.9	1579.0	1582.8	1584.3	1588.1	1591.2	1594.2	1593.5	1590.4
15°	1561.4	1562.9	1566.0	1569.8	1575.9	1581.3	1587.4	1594.2	1600.4	1601.9	1597.3
17.5°	1553.7	1556.0	1560.6	1566.0	1574.4	1583.5	1592.7	1601.9	1610.3	1613.4	1608.0
20°	1551.4	1553.0	1557.6	1566.7	1578.2	1592.0	1604.9	1615.6	1627.1	1630.9	1627.1
22.5°	1556.0	1559.1	1564.4	1575.1	1590.4	1608.0	1623.3	1637.8	1652.3	1659.2	1653.9
25°	1576.7	1579.7	1586.6	1600.4	1617.2	1635.5	1653.1	1669.9	1682.9	1689.8	1686.0
27.5°	1614.9	1618.7	1627.1	1640.9	1659.2	1679.1	1698.2	1711.9	1722.6	1724.9	1720.4
30°	1672.2	1680.6	1690.5	1705.8	1727.2	1744.0	1763.1	1775.4	1788.4	1788.4	1784.5
32.5°	1761.6	1770.0	1780.7	1795.2	1812.1	1830.4	1847.2	1857.9	1871.7	1872.4	1863.3
35°	1895.4	1899.2	1908.4	1917.5	1932.8	1948.9	1963.4	1970.3	1981.7	1982.5	1974.1
37.5°	2071.9	2072.7	2078.8	2081.8	2095.6	2113.2	2126.9	2131.5	2142.2	2140.7	2132.3
40°	2277.5	2281.3	2283.6	2288.2	2302.7	2319.5	2334.1	2336.3	2347.8	2345.5	2334.8
42.5°	2515.2	2516.7	2529.7	2536.6	2550.3	2558.7	2577.1	2579.4	2593.1	2587.0	2574.8
45°	2781.9	2795.7	2807.9	2821.7	2836.2	2846.1	2860.6	2857.6	2866.7	2857.6	2850.7
47.5°	3062.4	3072.3	3099.8	3121.2	3144.9	3153.3	3174.0	3164.8	3174.0	3161.0	3158.7
50°	3371.2	3388.7	3412.4	3436.9	3462.1	3475.9	3502.6	3491.1	3503.4	3491.1	3484.3
52.5°	3675.3	3679.9	3731.9	3767.8	3803.0	3819.0	3835.1	3829.7	3830.5	3829.7	3822.8
55°	3964.2	3974.9	4026.9	4075.8	4136.9	4182.0	4209.5	4206.5	4199.6	4192.7	4181.3
57.5°	4289.8	4300.5	4360.1	4420.5	4490.0	4554.2	4610.0	4667.3	4689.5	4695.6	4670.4
60°	4730.0	4729.2	4808.7	4882.1	4981.5	5077.0	5199.3	5323.8	5466.8	5533.2	5445.4
62.5°	5177.9	5196.2	5310.8	5440.8	5645.6	5845.1	6070.5	6292.2	6518.4	6702.6	6506.9
65°	5124.4	5194.7	5365.1	5659.4	6037.7	6487.0	6973.1	7487.5	7952.1	8271.6	7913.2
67.5°	4441.1	4541.2	4714.7	5072.4	5545.5	6193.6	7009.8	8027.0	9209.3	9781.0	9072.5
70°	3219.1	3332.2	3514.1	3863.3	4331.8	4947.8	5834.4	7055.7	8620.9	9197.1	8416.8
72.5°	1601.9	1663.0	1775.4	1997.8	2352.4	2852.2	3656.2	4830.1	6215.0	6743.8	6030.8
75°	544.2	572.4	591.5	664.1	776.5	972.9	1372.6	2111.7	3221.4	3861.8	3175.5
77.5°	314.1	314.9	327.9	340.9	360.0	381.4	434.9	570.9	987.4	1402.4	1021.8
80°	203.3	202.5	213.2	223.2	236.2	246.9	249.9	264.4	304.9	361.5	323.3
82.5°	105.5	118.5	142.2	155.1	179.6	184.2	178.1	172.7	182.7	189.5	194.1
85°	58.1	50.4	75.7	97.8	108.5	110.1	110.1	103.9	107.8	105.5	114.6
87.5°	26.7	24.5	29.8	48.1	51.2	43.6	45.9	40.5	29.0	28.3	32.1
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°	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2	1656.2
2.5°	1648.5	1649.3	1649.3	1651.6	1652.3	1653.9	1655.4	1656.2
5°	1635.5	1637.8	1636.3	1638.6	1638.6	1640.1	1640.1	1640.9
7.5°	1616.4	1618.7	1618.7	1618.7	1617.9	1620.2	1620.2	1620.2
10°	1596.5	1598.1	1597.3	1595.8	1594.2	1596.5	1595.8	1595.0
12.5°	1590.4	1586.6	1583.5	1582.0	1579.0	1579.7	1577.4	1577.4
15°	1594.2	1587.4	1582.0	1579.7	1576.7	1575.1	1573.6	1574.4
17.5°	1604.2	1595.8	1588.9	1585.1	1581.3	1579.0	1575.9	1576.7
20°	1621.8	1611.8	1601.9	1594.2	1587.4	1583.5	1581.3	1580.5
22.5°	1647.7	1633.2	1618.7	1607.2	1598.1	1592.7	1590.4	1588.9
25°	1677.6	1661.5	1644.7	1631.7	1622.5	1615.6	1611.1	1611.1
27.5°	1715.0	1702.0	1686.7	1671.4	1663.0	1656.2	1653.1	1651.6
30°	1777.7	1765.4	1753.2	1738.7	1728.0	1721.1	1715.8	1711.2
32.5°	1857.9	1848.0	1838.0	1827.3	1817.4	1808.2	1799.8	1796.0
35°	1971.0	1963.4	1956.5	1944.3	1940.5	1935.1	1930.5	1926.7
37.5°	2126.9	2123.9	2123.9	2110.9	2107.8	2105.5	2101.0	2101.7
40°	2331.8	2334.8	2331.0	2326.4	2324.1	2318.0	2318.0	2323.4
42.5°	2574.0	2576.3	2584.7	2577.1	2585.5	2577.9	2573.3	2577.1
45°	2855.3	2863.7	2880.5	2872.9	2878.2	2865.2	2849.2	2849.9
47.5°	3170.9	3178.6	3185.4	3180.1	3180.9	3159.5	3138.1	3132.7
50°	3498.8	3501.8	3505.7	3498.0	3499.6	3475.9	3451.4	3452.2
52.5°	3822.8	3837.4	3852.6	3832.0	3827.4	3800.7	3766.3	3752.5
55°	4193.5	4214.1	4196.6	4160.6	4124.7	4088.8	4043.7	4036.1
57.5°	4650.5	4615.4	4560.3	4492.3	4442.6	4392.2	4346.4	4327.2
60°	5286.4	5154.2	5054.8	4953.9	4890.5	4828.6	4768.2	4759.1
62.5°	6185.2	5956.6	5758.7	5550.1	5379.6	5246.7	5140.4	5110.6
65°	7311.7	6771.4	6302.9	5865.7	5485.9	5199.3	5018.9	4939.4
67.5°	7796.2	6729.3	5926.1	5305.5	4808.7	4461.8	4266.9	4169.8
70°	6850.8	5580.6	4707.1	4085.7	3633.3	3263.4	3086.8	2982.9
72.5°	4713.2	3550.0	2807.1	2291.3	1929.8	1620.2	1498.0	1488.8
75°	2116.2	1401.7	966.0	744.4	626.7	544.9	519.7	500.6
77.5°	592.3	437.9	390.5	365.3	340.9	312.6	301.9	304.2
80°	288.1	272.1	261.4	245.3	223.2	199.5	188.8	193.4
82.5°	191.1	188.8	195.7	184.2	152.1	129.2	108.5	99.4
85°	116.2	117.7	120.0	120.8	102.4	71.8	48.9	55.0
87.5°	45.9	52.7	57.3	59.6	55.8	34.4	27.5	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)