

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: P193361

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193361
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17089 lumens
Efficiency: N/A
Efficacy: 89.5 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): 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

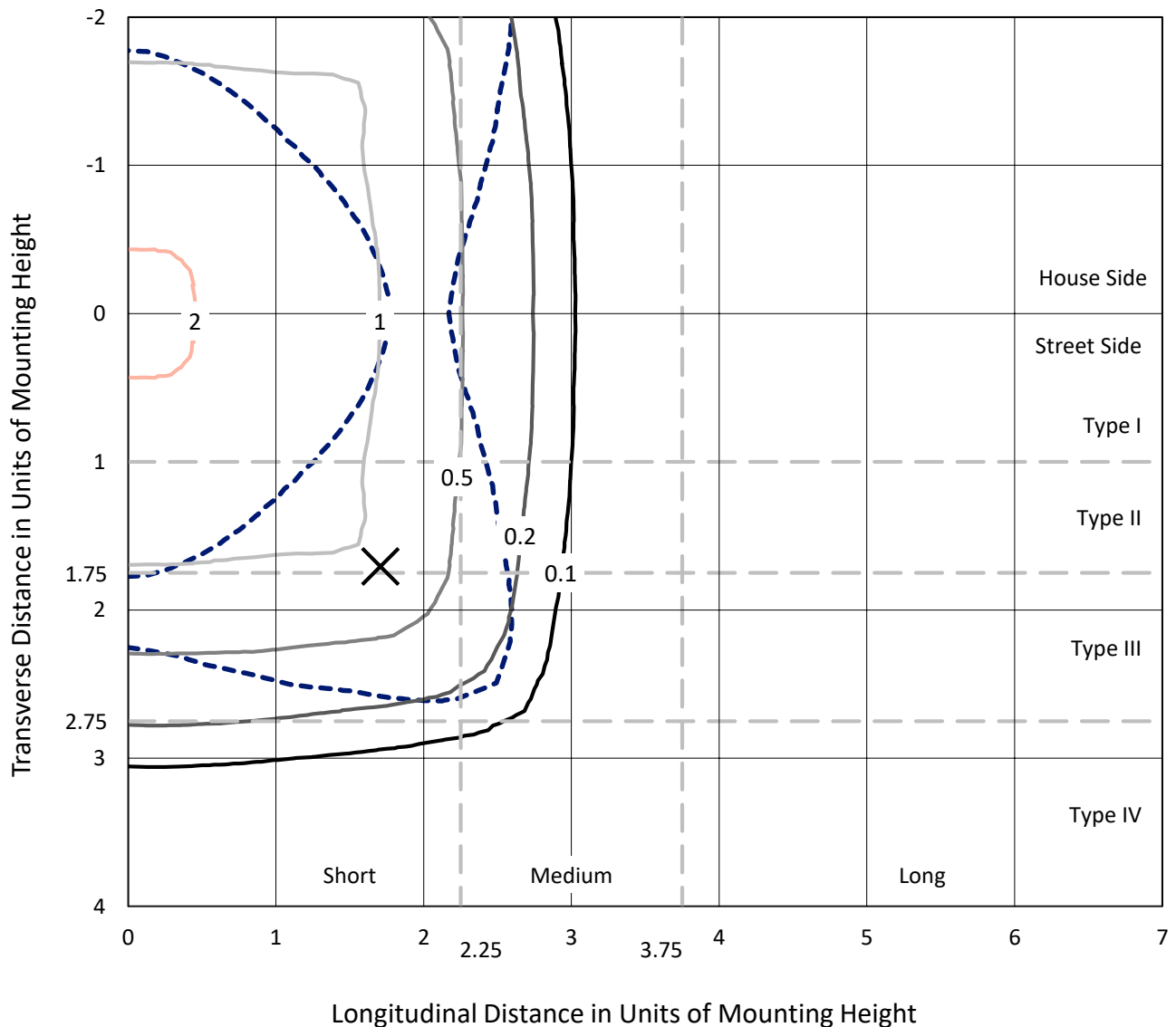


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

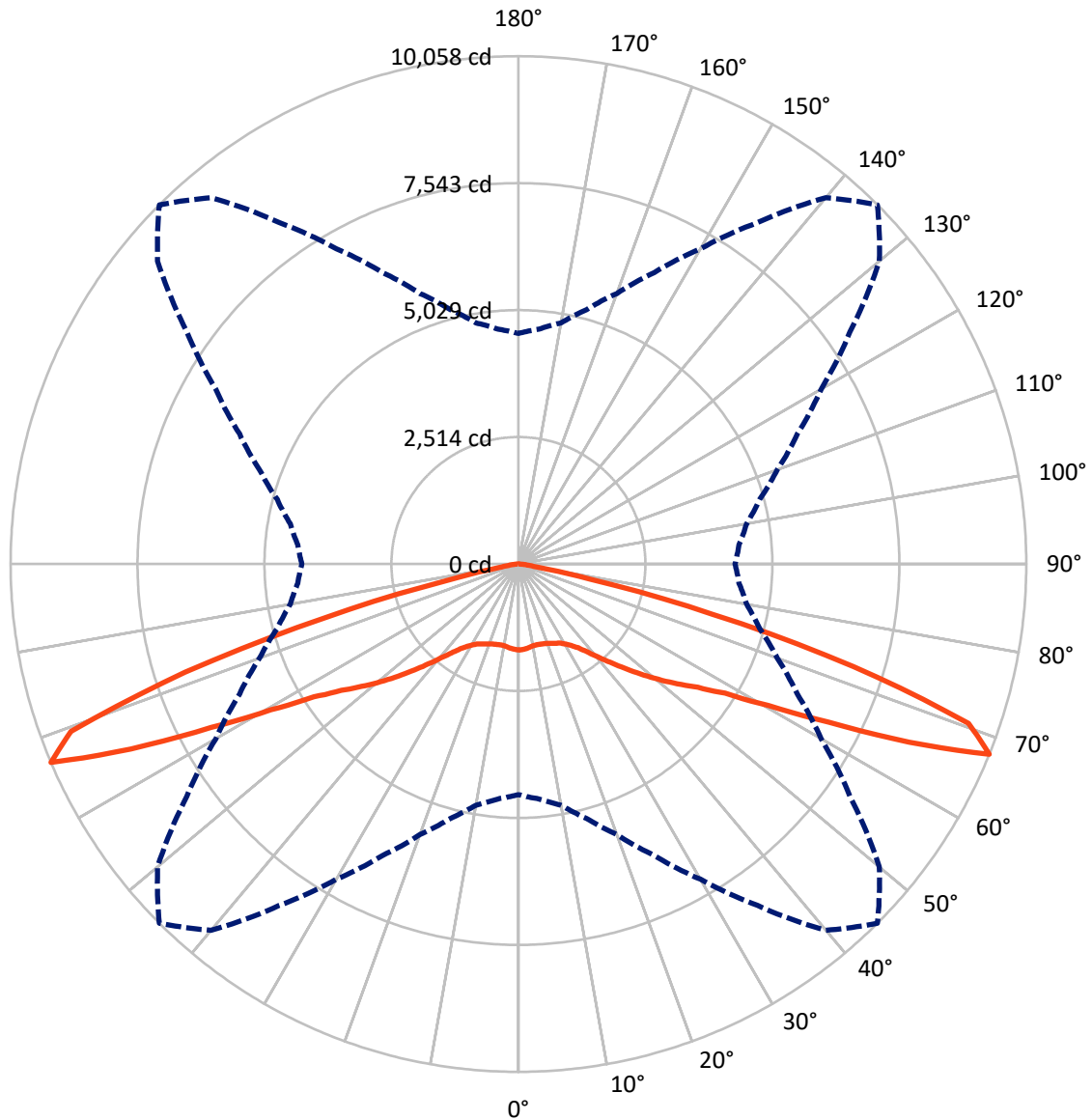


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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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
House Side	Lumens	8544.5	0.0	8544.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8544.5	0.0	8544.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17089.0	0.0	17089.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	0.9
10°-20°	462.5	2.7
20°-30°	786.3	4.6
30°-40°	1285.3	7.5
40°-50°	2294.6	13.4
50°-60°	3868.7	22.6
60°-70°	6003.6	35.1
70°-80°	2109.4	12.3
80°-90°	119.2	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°	17089.0	100.0
0°-180°	17089.0	100.0



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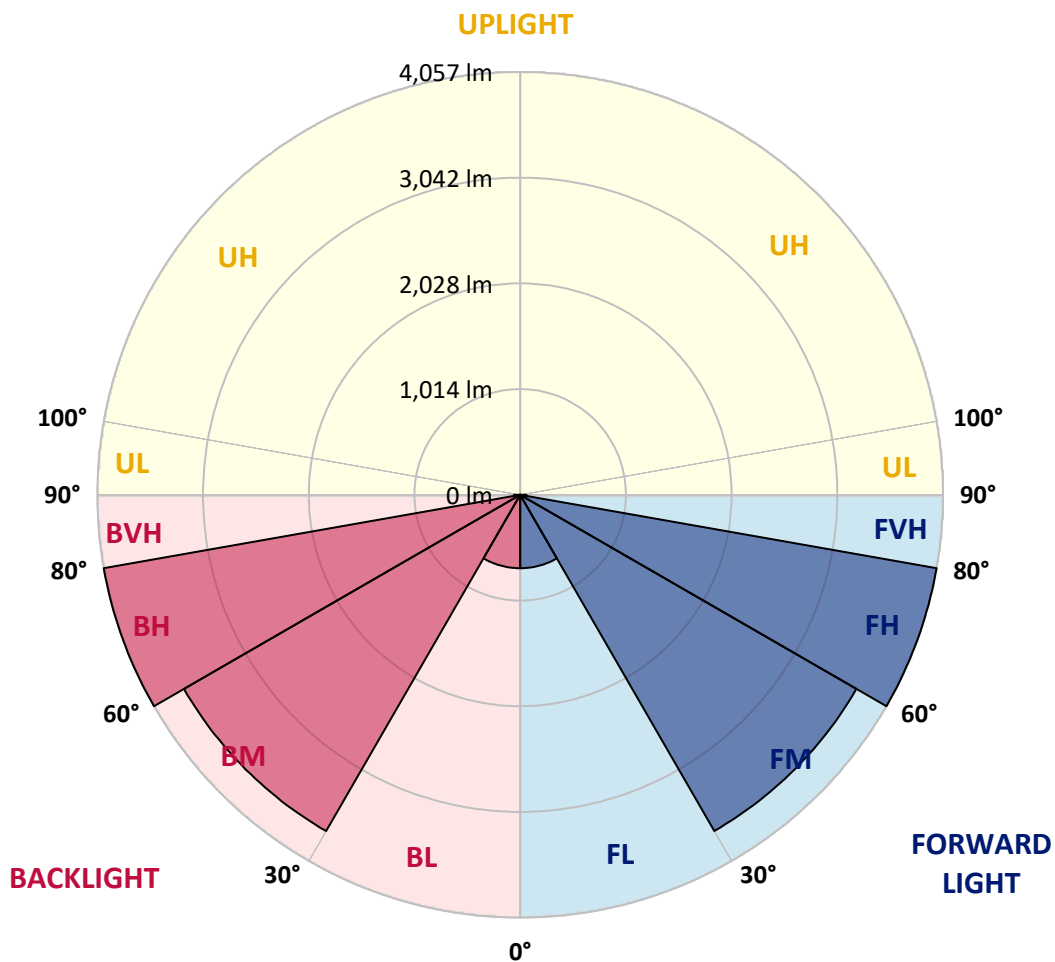
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	704.1	4.1			
FM	(30°-60°)	3724.3	21.8			
FH	(60°-80°)	4056.5	23.7			G2/5000
FVH	(80°-90°)	59.6	0.3			G1/100
BL	(0°-30°)	704.1	4.1	B2/1000		
BM	(30°-60°)	3724.3	21.8	B3/5000		
BH	(60°-80°)	4056.5	23.7	B4/5000		G2/5000
BVH	(80°-90°)	59.6	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°	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1696.7	1698.3	1698.3	1698.3	1697.5	1697.5	1695.9	1697.5	1696.7	1694.3	1695.1
5°	1682.6	1684.1	1684.1	1683.3	1685.7	1684.9	1682.6	1684.1	1683.3	1681.8	1682.6
7.5°	1662.1	1664.5	1664.5	1663.7	1666.1	1665.3	1663.7	1664.5	1664.5	1662.1	1662.1
10°	1639.3	1640.9	1640.9	1640.1	1644.1	1644.1	1643.3	1645.6	1646.4	1644.1	1642.5
12.5°	1618.1	1620.5	1620.5	1623.6	1627.5	1629.1	1633.0	1636.2	1639.3	1638.5	1635.4
15°	1605.5	1607.1	1610.3	1614.2	1620.5	1626.0	1632.3	1639.3	1645.6	1647.2	1642.5
17.5°	1597.7	1600.0	1604.8	1610.3	1618.9	1628.3	1637.8	1647.2	1655.8	1659.0	1653.5
20°	1595.3	1596.9	1601.6	1611.0	1622.8	1637.0	1650.3	1661.3	1673.1	1677.1	1673.1
22.5°	1600.0	1603.2	1608.7	1619.7	1635.4	1653.5	1669.2	1684.1	1699.1	1706.1	1700.6
25°	1621.3	1624.4	1631.5	1645.6	1662.9	1681.8	1699.8	1717.1	1730.5	1737.6	1733.6
27.5°	1660.6	1664.5	1673.1	1687.3	1706.1	1726.6	1746.2	1760.4	1771.4	1773.7	1769.0
30°	1719.5	1728.1	1738.4	1754.1	1776.1	1793.4	1813.0	1825.6	1838.9	1838.9	1835.0
32.5°	1811.4	1820.1	1831.1	1846.0	1863.3	1882.2	1899.5	1910.5	1924.6	1925.4	1916.0
35°	1949.0	1952.9	1962.3	1971.8	1987.5	2004.0	2018.9	2026.0	2037.8	2038.6	2029.9
37.5°	2130.5	2131.3	2137.6	2140.7	2154.9	2172.9	2187.1	2191.8	2202.8	2201.2	2192.6
40°	2341.9	2345.8	2348.2	2352.9	2367.8	2385.1	2400.1	2402.4	2414.2	2411.9	2400.8
42.5°	2586.3	2587.9	2601.2	2608.3	2622.5	2631.1	2650.0	2652.3	2666.5	2660.2	2647.6
45°	2860.6	2874.7	2887.3	2901.5	2916.4	2926.6	2941.5	2938.4	2947.8	2938.4	2931.3
47.5°	3149.0	3159.2	3187.5	3209.5	3233.9	3242.5	3263.7	3254.3	3263.7	3250.4	3248.0
50°	3466.5	3484.6	3508.9	3534.1	3560.0	3574.2	3601.7	3589.9	3602.5	3589.9	3582.8
52.5°	3779.3	3784.0	3837.4	3874.4	3910.5	3927.0	3943.5	3938.0	3938.8	3938.0	3930.9
55°	4076.3	4087.3	4140.8	4191.1	4253.9	4300.3	4328.6	4325.5	4318.4	4311.3	4299.5
57.5°	4411.1	4422.1	4483.4	4545.5	4617.0	4683.0	4740.4	4799.3	4822.1	4828.4	4802.5
60°	4863.8	4863.0	4944.7	5020.2	5122.3	5220.6	5346.3	5474.4	5621.4	5689.7	5599.4
62.5°	5324.3	5343.2	5461.0	5594.6	5805.3	6010.4	6242.2	6470.1	6702.7	6892.1	6690.9
65°	5269.3	5341.6	5516.8	5819.4	6208.4	6670.5	7170.3	7699.2	8177.0	8505.5	8136.9
67.5°	4566.7	4669.7	4848.1	5215.9	5702.3	6368.7	7208.0	8254.0	9469.8	10057.6	9329.1
70°	3310.1	3426.4	3613.5	3972.6	4454.3	5087.8	5999.4	7255.2	8864.7	9457.2	8654.8
72.5°	1647.2	1710.1	1825.6	2054.3	2418.9	2932.9	3759.6	4966.7	6390.7	6934.6	6201.3
75°	559.5	588.6	608.3	682.9	798.4	1000.4	1411.4	2171.4	3312.5	3971.0	3265.3
77.5°	323.0	323.8	337.1	350.5	370.1	392.2	447.2	587.0	1015.4	1442.1	1050.7
80°	209.0	208.3	219.3	229.5	242.8	253.8	257.0	271.9	313.6	371.7	332.4
82.5°	108.5	121.8	146.2	159.5	184.7	189.4	183.1	177.6	187.8	194.9	199.6
85°	59.7	51.9	77.8	100.6	111.6	113.2	113.2	106.9	110.8	108.5	117.9
87.5°	27.5	25.1	30.6	49.5	52.7	44.8	47.2	41.7	29.9	29.1	33.0
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°	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1695.1	1695.9	1695.9	1698.3	1699.1	1700.6	1702.2	1703.0
5°	1681.8	1684.1	1682.6	1684.9	1684.9	1686.5	1686.5	1687.3
7.5°	1662.1	1664.5	1664.5	1664.5	1663.7	1666.1	1666.1	1666.1
10°	1641.7	1643.3	1642.5	1640.9	1639.3	1641.7	1640.9	1640.1
12.5°	1635.4	1631.5	1628.3	1626.8	1623.6	1624.4	1622.0	1622.0
15°	1639.3	1632.3	1626.8	1624.4	1621.3	1619.7	1618.1	1618.9
17.5°	1649.6	1640.9	1633.8	1629.9	1626.0	1623.6	1620.5	1621.3
20°	1667.6	1657.4	1647.2	1639.3	1632.3	1628.3	1626.0	1625.2
22.5°	1694.3	1679.4	1664.5	1652.7	1643.3	1637.8	1635.4	1633.8
25°	1725.0	1708.5	1691.2	1677.8	1668.4	1661.3	1656.6	1656.6
27.5°	1763.5	1750.1	1734.4	1718.7	1710.1	1703.0	1699.8	1698.3
30°	1827.9	1815.4	1802.8	1787.9	1776.9	1769.8	1764.3	1759.6
32.5°	1910.5	1900.2	1890.0	1879.0	1868.8	1859.4	1850.7	1846.8
35°	2026.8	2018.9	2011.8	1999.3	1995.3	1989.8	1985.1	1981.2
37.5°	2187.1	2183.9	2183.9	2170.6	2167.4	2165.1	2160.4	2161.2
40°	2397.7	2400.8	2396.9	2392.2	2389.8	2383.6	2383.6	2389.1
42.5°	2646.8	2649.2	2657.8	2650.0	2658.6	2650.8	2646.0	2650.0
45°	2936.0	2944.7	2962.0	2954.1	2959.6	2946.2	2929.7	2930.5
47.5°	3260.6	3268.5	3275.5	3270.0	3270.8	3248.8	3226.8	3221.3
50°	3597.7	3600.9	3604.8	3596.9	3598.5	3574.2	3549.0	3549.8
52.5°	3930.9	3945.9	3961.6	3940.4	3935.7	3908.2	3872.8	3858.6
55°	4312.1	4333.3	4315.2	4278.3	4241.4	4204.4	4158.1	4150.2
57.5°	4782.0	4745.9	4689.3	4619.4	4568.3	4516.4	4469.3	4449.6
60°	5435.9	5299.9	5197.8	5094.0	5028.8	4965.2	4903.1	4893.6
62.5°	6360.1	6125.1	5921.6	5707.0	5531.8	5395.0	5285.8	5255.1
65°	7518.5	6962.9	6481.1	6031.6	5641.0	5346.3	5160.8	5079.1
67.5°	8016.7	6919.6	6093.7	5455.5	4944.7	4587.9	4387.5	4287.7
70°	7044.6	5738.5	4840.2	4201.3	3736.0	3355.7	3174.1	3067.3
72.5°	4846.5	3650.4	2886.5	2356.1	1984.3	1666.1	1540.3	1530.9
75°	2176.1	1441.3	993.3	765.4	644.4	560.3	534.4	514.7
77.5°	609.1	450.3	401.6	375.6	350.5	321.4	310.4	312.8
80°	296.3	279.8	268.8	252.3	229.5	205.1	194.1	198.8
82.5°	196.5	194.1	201.2	189.4	156.4	132.8	111.6	102.2
85°	119.5	121.0	123.4	124.2	105.3	73.9	50.3	56.6
87.5°	47.2	54.2	58.9	61.3	57.4	35.4	28.3	29.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)