

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: P192532

Luminaire Tested: **GLEON-AF-04-LED-E1-5MQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192532
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 16073.1 lumens
Efficiency: N/A
Efficacy: 124.6 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

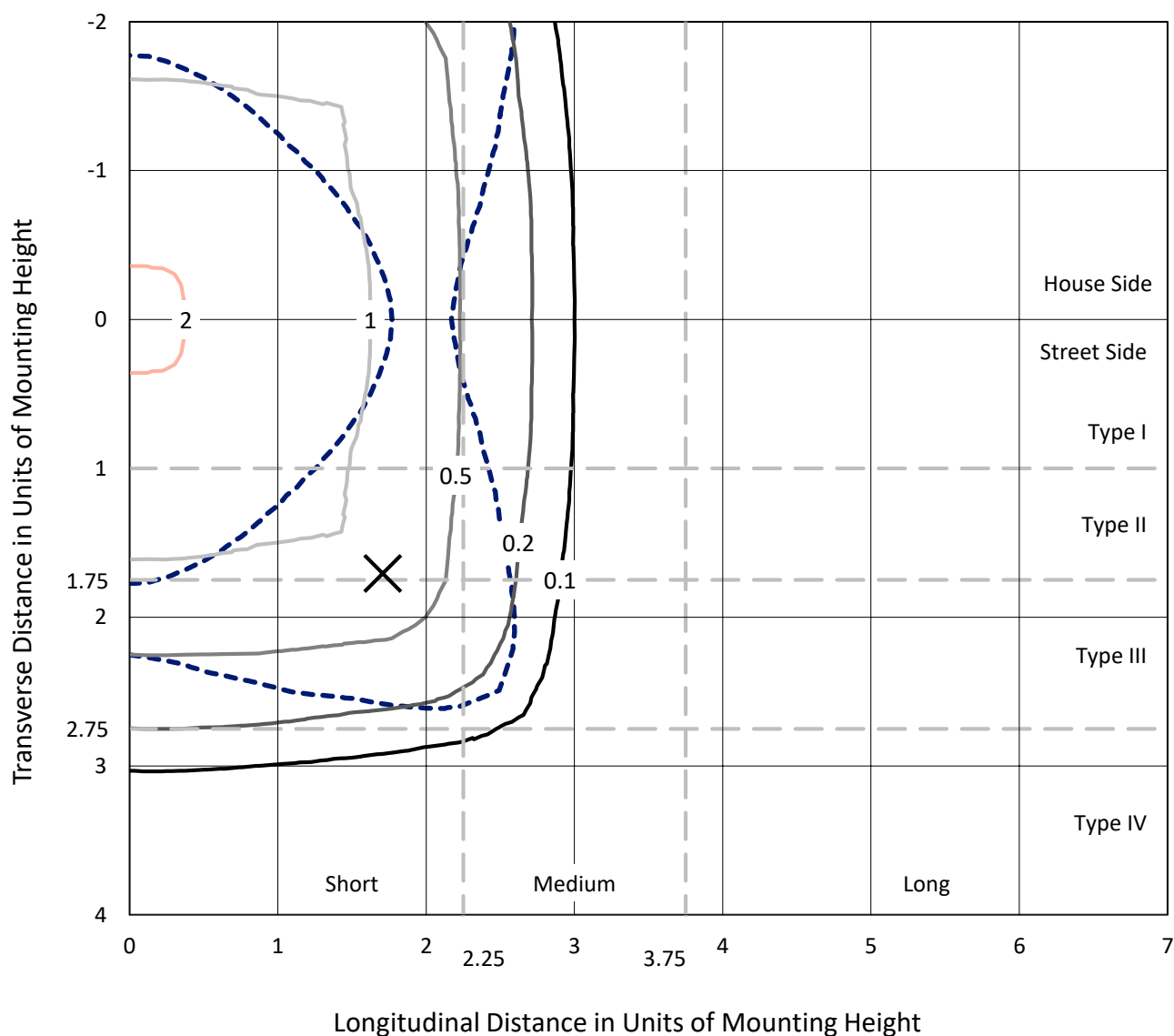


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

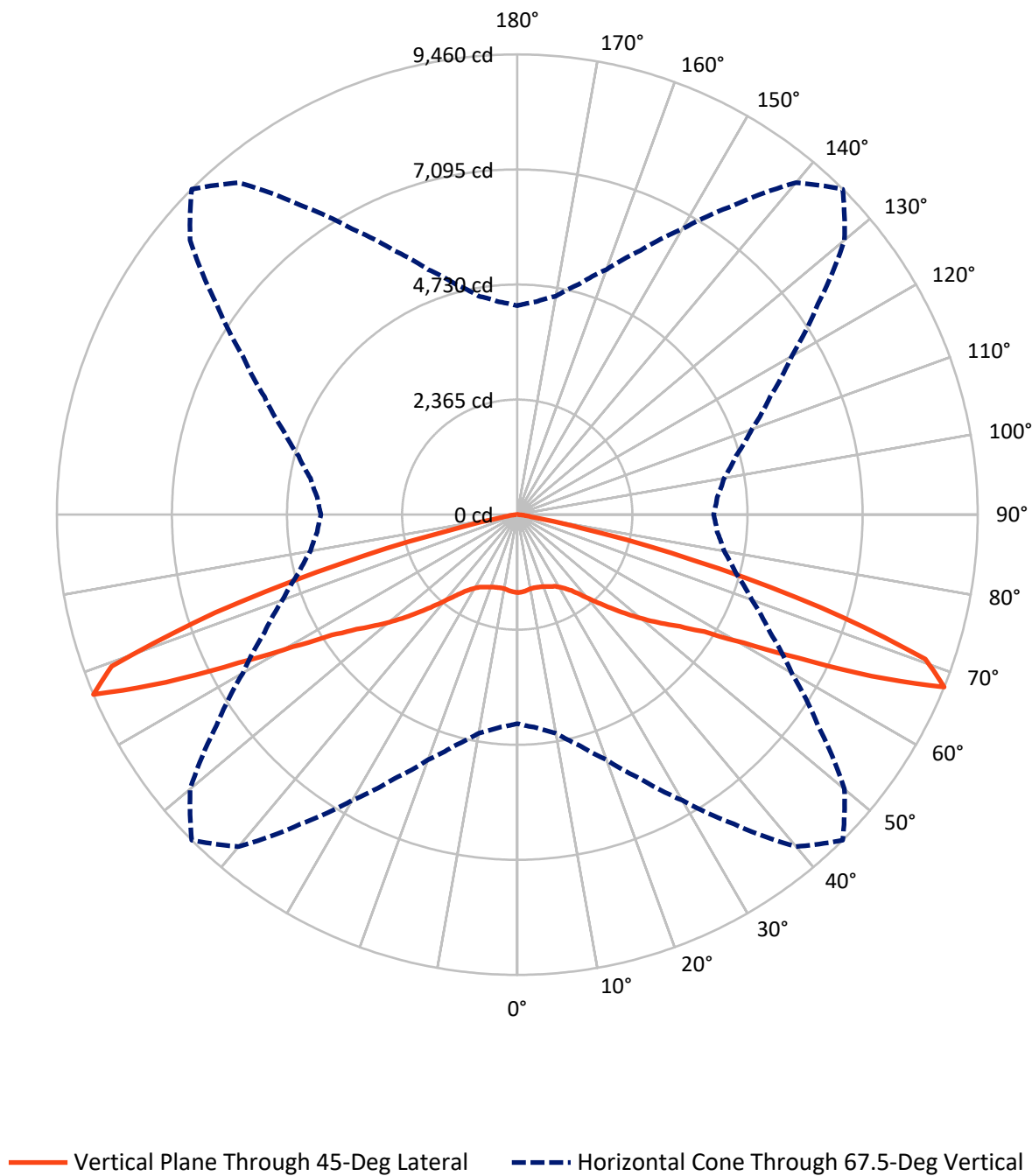


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8036.6	0.0	8036.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8036.6	0.0	8036.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	16073.1	0.0	16073.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	0.9
10°-20°	435.0	2.7
20°-30°	739.5	4.6
30°-40°	1208.9	7.5
40°-50°	2158.2	13.4
50°-60°	3638.7	22.6
60°-70°	5646.7	35.1
70°-80°	1984.0	12.3
80°-90°	112.1	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°	16073.1	100.0
0°-180°	16073.1	100.0

Coefficient of Utilization



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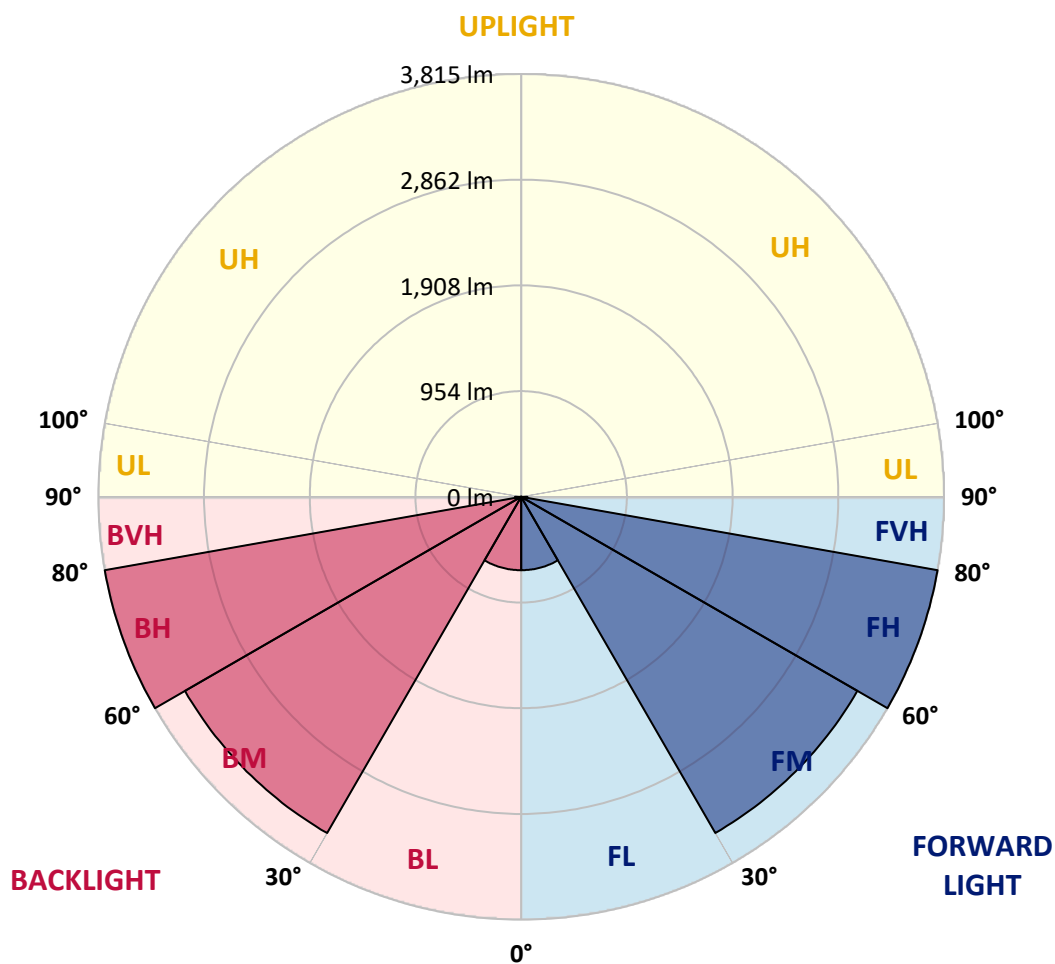
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	662.2	4.1			
FM	(30°-60°)	3502.9	21.8			
FH	(60°-80°)	3815.4	23.7			G2/5000
FVH	(80°-90°)	56.1	0.3			G1/100
BL	(0°-30°)	662.2	4.1	B2/1000		
BM	(30°-60°)	3502.9	21.8	B3/5000		
BH	(60°-80°)	3815.4	23.7	B4/5000		G2/5000
BVH	(80°-90°)	56.1	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°	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7
2.5°	1595.8	1597.4	1597.4	1597.4	1596.6	1596.6	1595.0	1596.6	1595.8	1593.6	1594.3
5°	1582.5	1584.0	1584.0	1583.2	1585.5	1584.8	1582.5	1584.0	1583.2	1581.7	1582.5
7.5°	1563.3	1565.5	1565.5	1564.8	1567.0	1566.2	1564.8	1565.5	1565.5	1563.3	1563.3
10°	1541.8	1543.4	1543.4	1542.6	1546.3	1546.3	1545.6	1547.7	1548.5	1546.3	1544.8
12.5°	1521.9	1524.1	1524.1	1527.1	1530.8	1532.3	1535.9	1538.9	1541.8	1541.1	1538.2
15°	1510.1	1511.6	1514.6	1518.2	1524.1	1529.3	1535.2	1541.8	1547.7	1549.3	1544.8
17.5°	1502.8	1504.9	1509.3	1514.6	1522.6	1531.5	1540.4	1549.3	1557.4	1560.3	1555.2
20°	1500.4	1502.0	1506.3	1515.3	1526.4	1539.7	1552.2	1562.6	1573.7	1577.3	1573.7
22.5°	1504.9	1507.9	1513.0	1523.4	1538.2	1555.2	1569.9	1584.0	1598.0	1604.7	1599.5
25°	1524.9	1527.9	1534.5	1547.7	1564.0	1581.7	1598.8	1615.1	1627.6	1634.3	1630.5
27.5°	1561.9	1565.5	1573.7	1587.0	1604.7	1623.9	1642.3	1655.8	1666.1	1668.3	1663.8
30°	1617.2	1625.4	1635.1	1649.9	1670.5	1686.8	1705.2	1717.0	1729.7	1729.7	1726.0
32.5°	1703.8	1711.9	1722.3	1736.2	1752.5	1770.3	1786.5	1796.9	1810.2	1811.0	1802.0
35°	1833.2	1836.7	1845.7	1854.5	1869.3	1884.8	1898.9	1905.6	1916.6	1917.4	1909.2
37.5°	2003.9	2004.6	2010.5	2013.4	2026.8	2043.8	2057.1	2061.5	2071.9	2070.4	2062.3
40°	2202.6	2206.4	2208.5	2213.0	2227.0	2243.3	2257.4	2259.6	2270.7	2268.4	2258.2
42.5°	2432.5	2434.1	2446.7	2453.3	2466.5	2474.7	2492.4	2494.6	2507.9	2502.0	2490.2
45°	2690.5	2703.8	2715.6	2729.0	2743.1	2752.7	2766.7	2763.7	2772.6	2763.7	2757.0
47.5°	2961.8	2971.5	2998.1	3018.8	3041.7	3049.8	3069.7	3060.9	3069.7	3057.2	3054.9
50°	3260.4	3277.4	3300.4	3324.0	3348.4	3361.7	3387.6	3376.4	3388.3	3376.4	3369.8
52.5°	3554.6	3559.0	3609.3	3644.1	3678.1	3693.6	3709.2	3703.9	3704.7	3703.9	3697.3
55°	3834.0	3844.4	3894.6	3942.0	4001.1	4044.7	4071.3	4068.4	4061.7	4055.0	4043.9
57.5°	4148.9	4159.3	4216.9	4275.4	4342.5	4404.7	4458.7	4514.0	4535.5	4541.4	4517.0
60°	4574.6	4573.9	4650.7	4721.7	4817.8	4910.2	5028.4	5149.0	5287.2	5351.5	5266.6
62.5°	5007.8	5025.5	5136.4	5262.0	5460.1	5653.1	5871.1	6085.5	6304.3	6482.5	6293.3
65°	4956.0	5024.1	5188.9	5473.5	5839.4	6274.0	6744.0	7241.4	7691.0	7999.9	7653.3
67.5°	4295.2	4392.1	4559.8	4905.7	5363.3	5990.1	6779.5	7763.4	8906.9	9459.7	8774.5
70°	3113.4	3222.7	3398.6	3736.4	4189.5	4785.3	5642.7	6823.9	8337.7	8895.1	8140.4
72.5°	1549.3	1608.4	1717.0	1932.1	2275.1	2758.6	3536.1	4671.5	6010.8	6522.3	5832.7
75°	526.3	553.6	572.1	642.3	750.9	940.9	1327.5	2042.3	3115.5	3734.9	3071.2
77.5°	303.7	304.5	317.1	329.6	348.1	368.9	420.5	552.2	955.0	1356.4	988.2
80°	196.6	195.9	206.2	215.8	228.4	238.7	241.7	255.7	294.9	349.6	312.7
82.5°	102.0	114.6	137.4	150.0	173.7	178.1	172.2	167.0	176.7	183.3	187.7
85°	56.2	48.8	73.2	94.6	105.0	106.4	106.4	100.5	104.3	102.0	110.9
87.5°	25.9	23.6	28.9	46.6	49.5	42.2	44.4	39.3	28.1	27.4	31.0
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°	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7	1601.7
2.5°	1594.3	1595.0	1595.0	1597.4	1598.0	1599.5	1600.9	1601.7
5°	1581.7	1584.0	1582.5	1584.8	1584.8	1586.2	1586.2	1587.0
7.5°	1563.3	1565.5	1565.5	1565.5	1564.8	1567.0	1567.0	1567.0
10°	1544.1	1545.6	1544.8	1543.4	1541.8	1544.1	1543.4	1542.6
12.5°	1538.2	1534.5	1531.5	1530.0	1527.1	1527.9	1525.6	1525.6
15°	1541.8	1535.2	1530.0	1527.9	1524.9	1523.4	1521.9	1522.6
17.5°	1551.5	1543.4	1536.7	1533.0	1529.3	1527.1	1524.1	1524.9
20°	1568.5	1558.9	1549.3	1541.8	1535.2	1531.5	1529.3	1528.5
22.5°	1593.6	1579.6	1565.5	1554.4	1545.6	1540.4	1538.2	1536.7
25°	1622.5	1606.8	1590.7	1578.1	1569.2	1562.6	1558.1	1558.1
27.5°	1658.7	1646.1	1631.4	1616.5	1608.4	1601.7	1598.8	1597.4
30°	1719.3	1707.5	1695.6	1681.6	1671.2	1664.6	1659.4	1655.0
32.5°	1796.9	1787.3	1777.6	1767.4	1757.8	1748.8	1740.7	1737.0
35°	1906.2	1898.9	1892.3	1880.5	1876.7	1871.5	1867.1	1863.4
37.5°	2057.1	2054.1	2054.1	2041.5	2038.6	2036.4	2031.9	2032.7
40°	2255.2	2258.2	2254.4	2249.9	2247.8	2241.9	2241.9	2247.0
42.5°	2489.5	2491.6	2499.9	2492.4	2500.6	2493.2	2488.7	2492.4
45°	2761.5	2769.6	2785.9	2778.5	2783.7	2771.2	2755.6	2756.3
47.5°	3066.8	3074.1	3080.8	3075.6	3076.4	3055.7	3035.0	3029.8
50°	3383.9	3386.8	3390.6	3383.1	3384.7	3361.7	3338.1	3338.8
52.5°	3697.3	3711.3	3726.1	3706.2	3701.7	3675.8	3642.6	3629.3
55°	4055.8	4075.7	4058.8	4024.0	3989.3	3954.5	3910.9	3903.5
57.5°	4497.7	4463.8	4410.6	4344.8	4296.7	4247.9	4203.6	4185.0
60°	5112.8	4984.9	4888.8	4791.2	4729.9	4670.0	4611.7	4602.8
62.5°	5982.1	5761.0	5569.6	5367.8	5202.9	5074.3	4971.7	4942.8
65°	7071.5	6548.9	6095.8	5673.1	5305.6	5028.4	4854.1	4777.2
67.5°	7540.2	6508.2	5731.4	5131.3	4650.7	4315.2	4126.7	4032.9
70°	6625.8	5397.3	4552.5	3951.6	3514.0	3156.2	2985.5	2884.9
72.5°	4558.4	3433.4	2714.9	2216.0	1866.3	1567.0	1448.8	1439.9
75°	2046.8	1355.6	934.2	719.9	606.1	527.0	502.6	484.1
77.5°	572.8	423.5	377.7	353.4	329.6	302.3	291.9	294.2
80°	278.6	263.1	252.8	237.3	215.8	193.0	182.6	187.1
82.5°	184.7	182.6	189.2	178.1	147.1	124.9	105.0	96.0
85°	112.3	113.8	116.1	116.8	99.1	69.5	47.3	53.2
87.5°	44.4	51.1	55.4	57.7	54.0	33.3	26.7	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)