

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: P200093

Luminaire Tested: **GWC-AF-01-LED-E1-AFL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-AFL-800
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5389.9 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

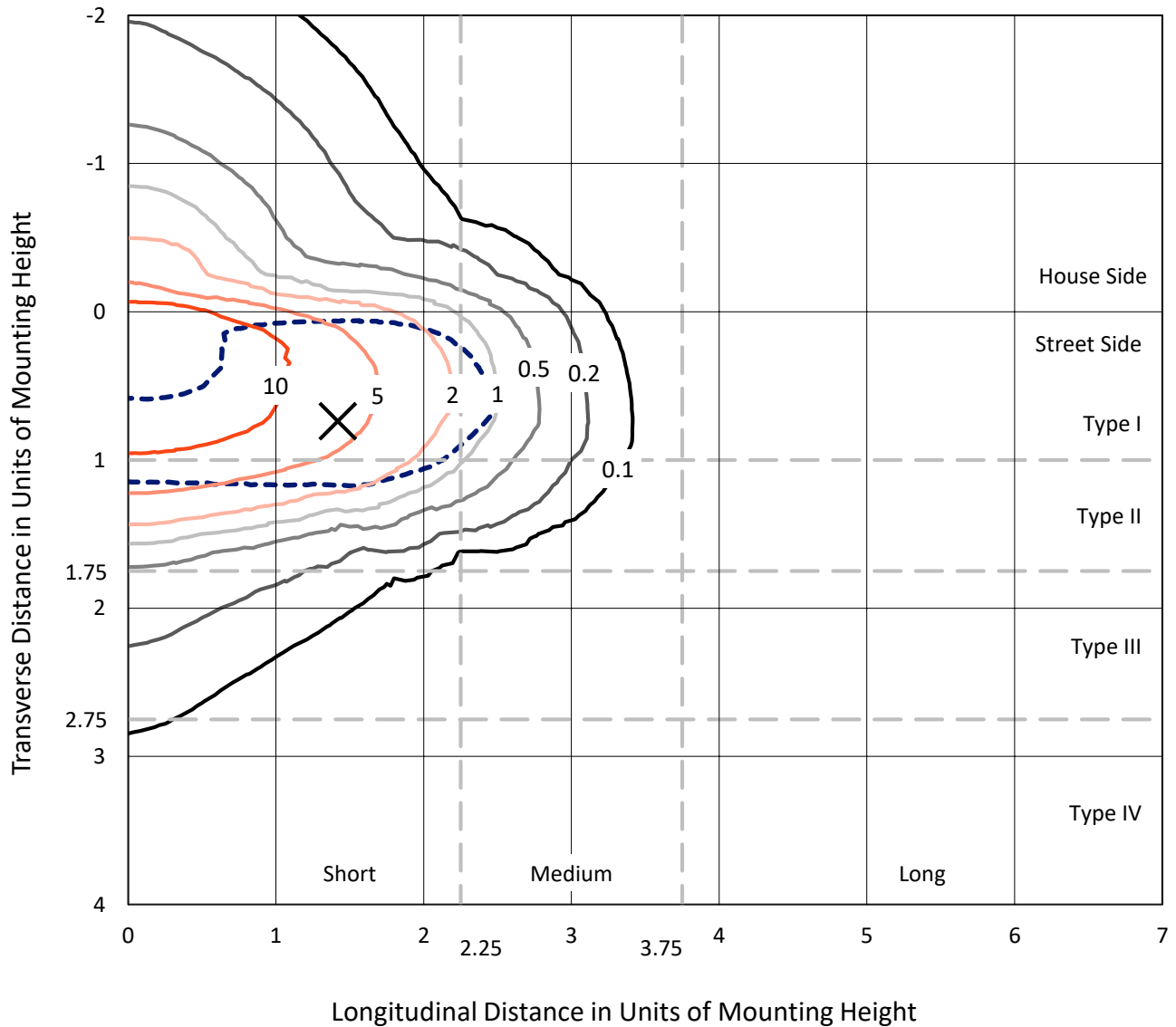
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

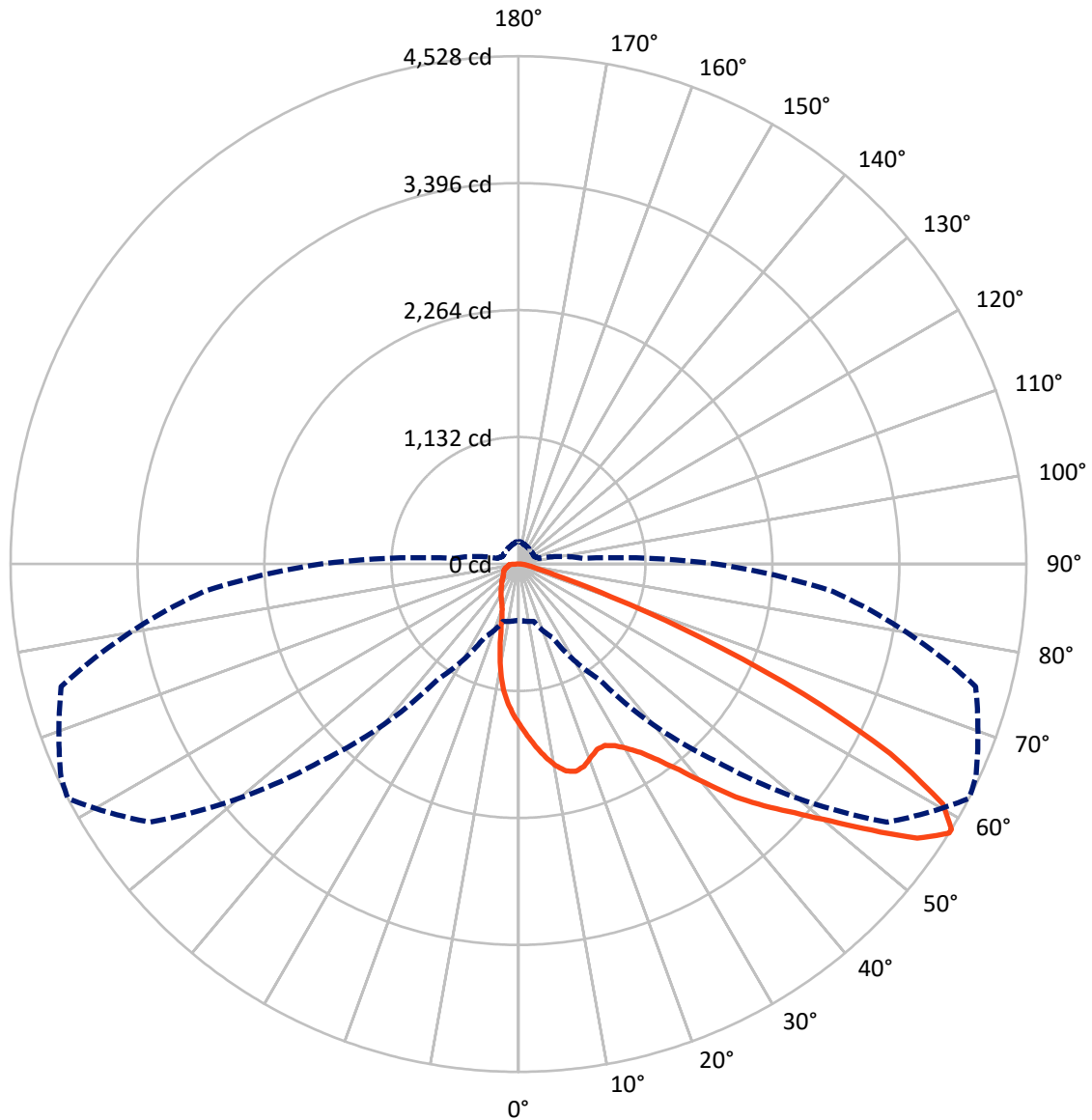
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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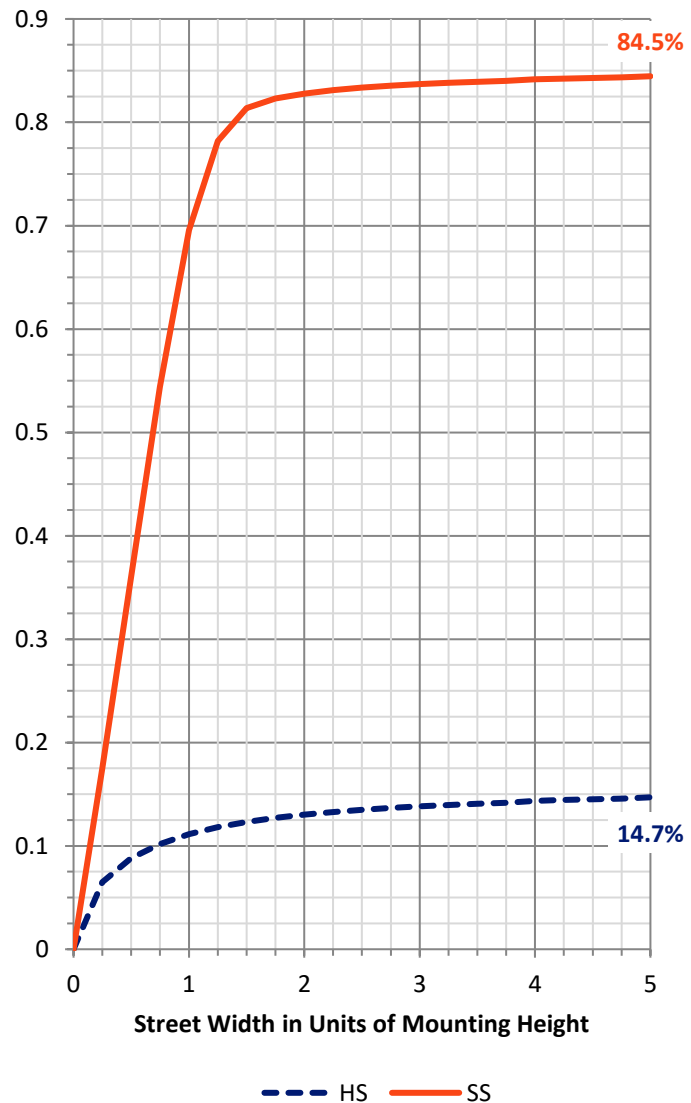
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	822.0	0.0	822.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4567.9	0.0	4567.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	5389.9	0.0	5389.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	2.4
10°-20°	327.3	6.1
20°-30°	529.1	9.8
30°-40°	839.9	15.6
40°-50°	1229.0	22.8
50°-60°	1285.5	23.8
60°-70°	759.4	14.1
70°-80°	213.9	4.0
80°-90°	77.7	1.4
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°	5389.9	100.0
0°-180°	5389.9	100.0



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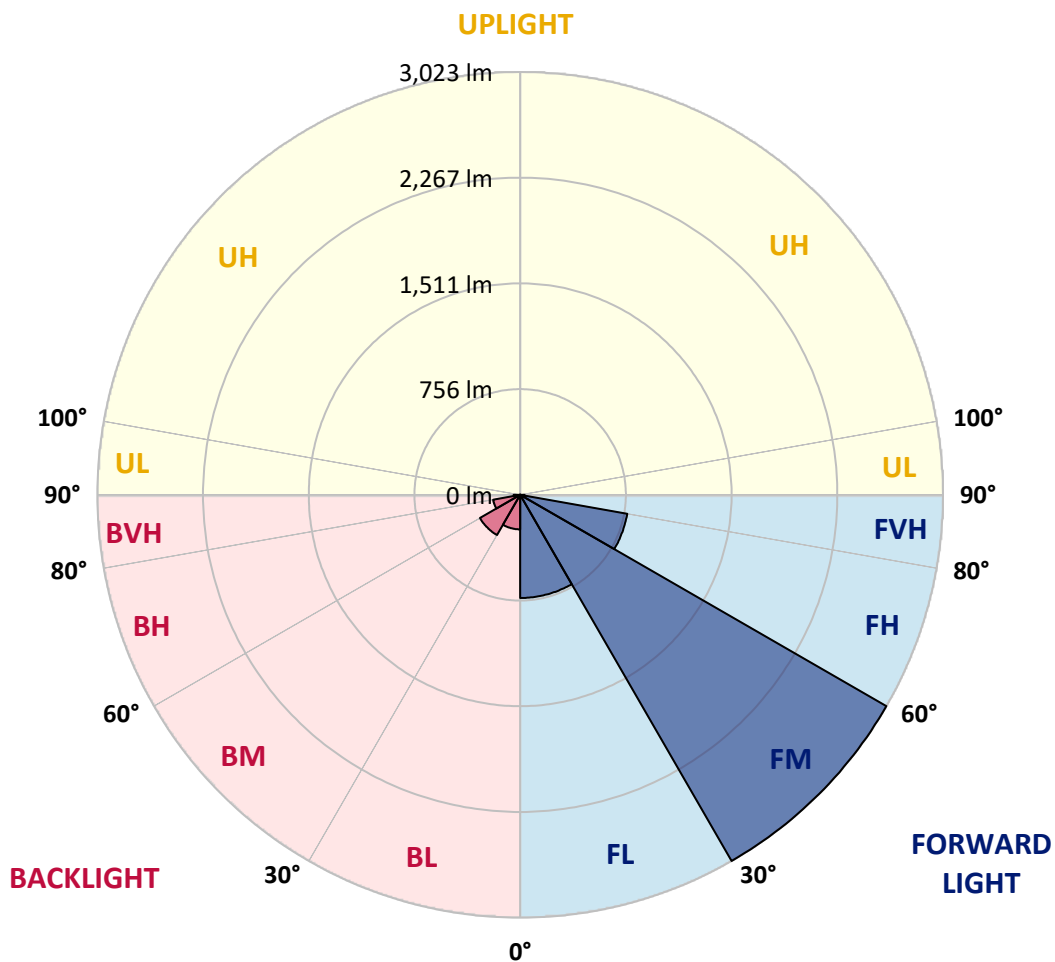
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	737.4	13.7			
FM	(30°-60°)	3022.6	56.1			
FH	(60°-80°)	777.3	14.4			G1/1800
FVH	(80°-90°)	30.6	0.6			G1/100
BL	(0°-30°)	247.0	4.6	B1/500		
BM	(30°-60°)	331.8	6.2	B1/1000		
BH	(60°-80°)	196.1	3.6	B1/500		G1/500
BVH	(80°-90°)	47.0	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7
2.5°	1636.0	1622.8	1614.4	1607.1	1597.4	1576.9	1549.3	1531.8	1522.9	1492.6	1456.9
5°	1796.4	1784.7	1776.1	1766.2	1748.9	1716.7	1672.1	1636.5	1619.0	1558.7	1487.1
7.5°	1758.9	1763.7	1778.7	1804.8	1827.2	1822.8	1783.0	1737.8	1714.7	1630.7	1522.0
10°	1532.5	1540.9	1566.8	1627.9	1726.9	1828.4	1859.4	1828.2	1804.8	1702.0	1558.2
12.5°	1487.1	1486.8	1488.8	1505.1	1564.0	1706.9	1862.0	1893.4	1879.5	1770.0	1594.9
15°	1505.6	1506.1	1504.6	1511.4	1529.7	1586.3	1784.2	1918.5	1928.5	1838.5	1633.0
17.5°	1554.3	1553.0	1547.2	1547.2	1553.8	1575.9	1692.9	1895.2	1940.8	1899.2	1666.5
20°	1636.0	1630.2	1614.7	1600.5	1593.5	1605.3	1655.3	1841.4	1919.3	1952.3	1694.2
22.5°	1735.0	1730.4	1705.4	1674.9	1650.2	1650.0	1674.6	1794.5	1882.0	2002.3	1717.5
25°	1862.9	1855.6	1818.3	1769.5	1726.4	1709.9	1716.7	1792.1	1861.7	2056.6	1738.3
27.5°	2013.2	1999.8	1955.6	1885.3	1821.9	1788.5	1778.7	1833.5	1880.2	2123.9	1767.2
30°	2195.5	2179.9	2123.3	2031.7	1942.2	1887.5	1866.5	1906.9	1941.7	2205.8	1813.7
32.5°	2402.8	2380.4	2314.9	2214.0	2096.2	2013.0	1978.7	2003.8	2031.5	2304.6	1871.8
35°	2689.3	2662.6	2568.0	2428.7	2295.7	2181.2	2126.4	2144.7	2171.6	2451.8	1955.9
37.5°	2884.7	2872.9	2809.9	2678.9	2534.3	2402.5	2317.8	2328.4	2343.7	2635.7	2063.5
40°	2883.0	2887.8	2889.1	2890.3	2791.8	2665.7	2574.7	2563.4	2560.4	2837.8	2185.7
42.5°	2738.5	2758.4	2822.3	2952.0	3012.0	2954.1	2870.6	2838.3	2822.3	3075.9	2315.4
45°	2517.5	2528.1	2648.0	2901.3	3124.6	3239.6	3176.4	3074.9	3045.9	3294.6	2423.1
47.5°	2403.5	2415.2	2490.6	2766.8	3123.4	3470.3	3506.9	3313.4	3261.7	3485.0	2515.9
50°	2132.2	2156.6	2251.5	2532.7	3009.4	3576.4	3852.3	3597.7	3490.6	3670.3	2609.1
52.5°	1634.0	1671.6	1777.9	2148.0	2720.3	3523.9	4128.6	3942.4	3791.2	3862.2	2689.1
55°	1030.7	1058.7	1148.0	1517.0	2176.1	3250.5	4233.5	4315.2	4180.7	4043.9	2758.4
57.5°	560.4	572.9	606.3	837.6	1415.5	2646.2	4080.8	4527.4	4471.5	4198.2	2810.7
58°	501.6	509.9	530.7	725.9	1255.4	2481.0	4012.9	4528.2	4500.3	4220.8	2814.8
60°	372.0	367.8	349.2	414.2	698.8	1714.0	3603.3	4346.9	4429.0	4248.5	2794.9
62.5°	326.9	316.5	278.7	274.4	339.8	789.6	2757.1	3723.6	3917.3	4090.6	2674.6
65°	307.1	295.9	247.2	231.5	245.2	334.0	1624.1	2792.7	3035.5	3611.9	2367.0
67.5°	292.4	277.9	227.2	205.6	206.6	220.9	651.0	1758.9	2032.2	2742.4	1841.1
70°	278.1	262.4	210.1	185.3	179.4	174.6	258.9	880.5	1128.4	1732.3	1173.8
72.5°	262.9	247.5	195.2	169.3	157.8	141.9	169.0	360.2	503.1	819.6	532.4
75°	240.9	226.9	180.2	155.1	138.8	117.5	127.7	188.1	225.7	326.4	256.6
77.5°	213.7	202.2	163.5	143.4	123.1	95.4	98.2	130.4	144.6	186.8	152.5
80°	153.5	157.6	145.5	128.9	109.7	77.4	75.4	95.1	102.8	120.1	99.2
82.5°	107.8	110.2	120.3	105.4	90.6	60.9	55.5	67.0	71.6	79.0	53.6
85°	74.4	71.8	82.4	73.3	65.5	40.6	38.1	45.4	48.2	49.0	27.6
87.5°	44.7	44.7	47.7	39.4	35.3	21.1	20.6	25.9	27.6	26.4	15.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7	1431.7
2.5°	1435.5	1417.5	1379.1	1348.5	1309.7	1269.3	1246.7	1222.6	1206.1	1194.2	1213.2
5°	1446.5	1409.6	1330.4	1255.4	1172.3	1086.1	1020.6	959.6	917.3	890.9	915.7
7.5°	1463.7	1407.1	1280.9	1152.6	1003.5	859.9	731.5	651.0	604.1	580.9	595.5
10°	1483.5	1403.1	1222.8	1013.2	800.0	619.0	523.1	490.6	480.0	475.7	477.6
12.5°	1500.0	1394.4	1151.5	844.7	600.8	488.9	461.1	460.4	462.7	463.2	463.9
15°	1511.7	1381.7	1045.7	669.0	480.5	445.4	443.9	448.5	452.8	454.6	455.6
17.5°	1519.5	1355.6	926.2	529.0	430.5	424.3	427.9	433.7	438.3	439.6	440.6
20°	1518.8	1317.3	783.8	441.1	403.3	403.3	409.4	414.0	414.2	412.7	413.5
22.5°	1510.9	1264.7	645.7	394.4	379.2	383.5	389.6	385.2	367.5	355.9	356.6
25°	1497.7	1202.1	527.4	364.7	356.8	364.5	362.7	330.2	304.8	293.4	293.4
27.5°	1486.0	1127.9	436.6	338.8	334.5	343.9	312.4	282.9	272.3	267.0	265.3
30°	1477.7	1048.0	375.9	313.9	313.4	306.6	271.1	262.9	261.2	256.9	255.3
32.5°	1479.7	967.0	337.1	292.2	293.9	262.4	251.2	253.1	251.5	246.9	244.9
35°	1496.5	890.1	311.7	272.3	267.0	237.0	239.6	242.8	242.3	236.0	234.1
37.5°	1526.3	817.2	294.9	255.8	233.0	224.3	228.4	233.5	232.2	227.9	226.4
40°	1557.9	748.7	281.2	242.8	213.0	215.7	219.3	222.1	223.3	224.6	223.6
42.5°	1588.5	677.2	264.4	229.7	204.6	207.7	209.1	212.0	218.8	223.6	223.3
45°	1606.9	609.9	247.2	210.9	197.9	199.8	198.8	204.3	212.7	220.5	220.9
47.5°	1627.1	557.6	233.5	193.6	191.6	192.9	189.9	195.4	203.1	212.7	213.7
50°	1651.8	526.4	222.6	179.9	183.0	183.0	182.2	187.3	197.9	209.1	211.1
52.5°	1679.7	520.3	213.5	170.0	174.4	174.1	174.8	182.5	194.2	205.1	206.8
55°	1713.7	536.8	203.6	162.6	166.0	167.0	169.5	178.2	188.1	200.5	201.3
57.5°	1753.3	570.3	195.7	156.8	158.4	161.6	165.7	173.6	184.2	197.9	198.8
58°	1759.9	577.5	194.5	156.3	156.8	160.7	165.2	172.9	183.5	198.5	199.3
60°	1760.2	601.0	191.6	154.1	151.0	157.3	162.4	170.0	182.2	200.3	202.0
62.5°	1697.7	600.8	189.6	150.8	145.0	152.8	158.7	167.6	181.0	204.6	208.2
65°	1494.9	545.9	179.9	145.7	140.1	148.7	155.3	165.7	184.5	223.3	225.7
67.5°	1169.3	447.4	161.9	138.6	133.8	144.6	153.3	165.5	188.3	227.7	229.1
70°	773.1	334.8	142.1	130.4	127.2	139.8	154.4	174.1	184.0	218.5	214.5
72.5°	401.3	235.1	126.1	120.3	119.6	135.5	169.0	173.1	179.7	205.6	200.5
75°	210.6	163.2	112.2	109.1	110.4	134.5	199.5	168.5	174.1	196.7	206.3
77.5°	128.9	131.8	100.2	99.0	101.5	131.4	199.3	162.6	166.0	181.0	191.6
80°	86.3	106.9	91.1	91.3	93.2	120.3	178.9	153.5	156.1	171.0	182.0
82.5°	54.5	63.2	82.8	87.1	84.8	99.2	152.0	139.8	143.4	195.7	206.8
85°	27.6	39.6	71.8	83.8	76.4	69.6	123.4	122.5	124.4	141.2	147.5
87.5°	12.7	21.8	56.1	73.1	57.6	43.4	89.6	90.8	98.0	100.2	100.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)