

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: P191020

Luminaire Tested: **GLEON-AF-02-LED-E1-RW-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-RW-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13970.4 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

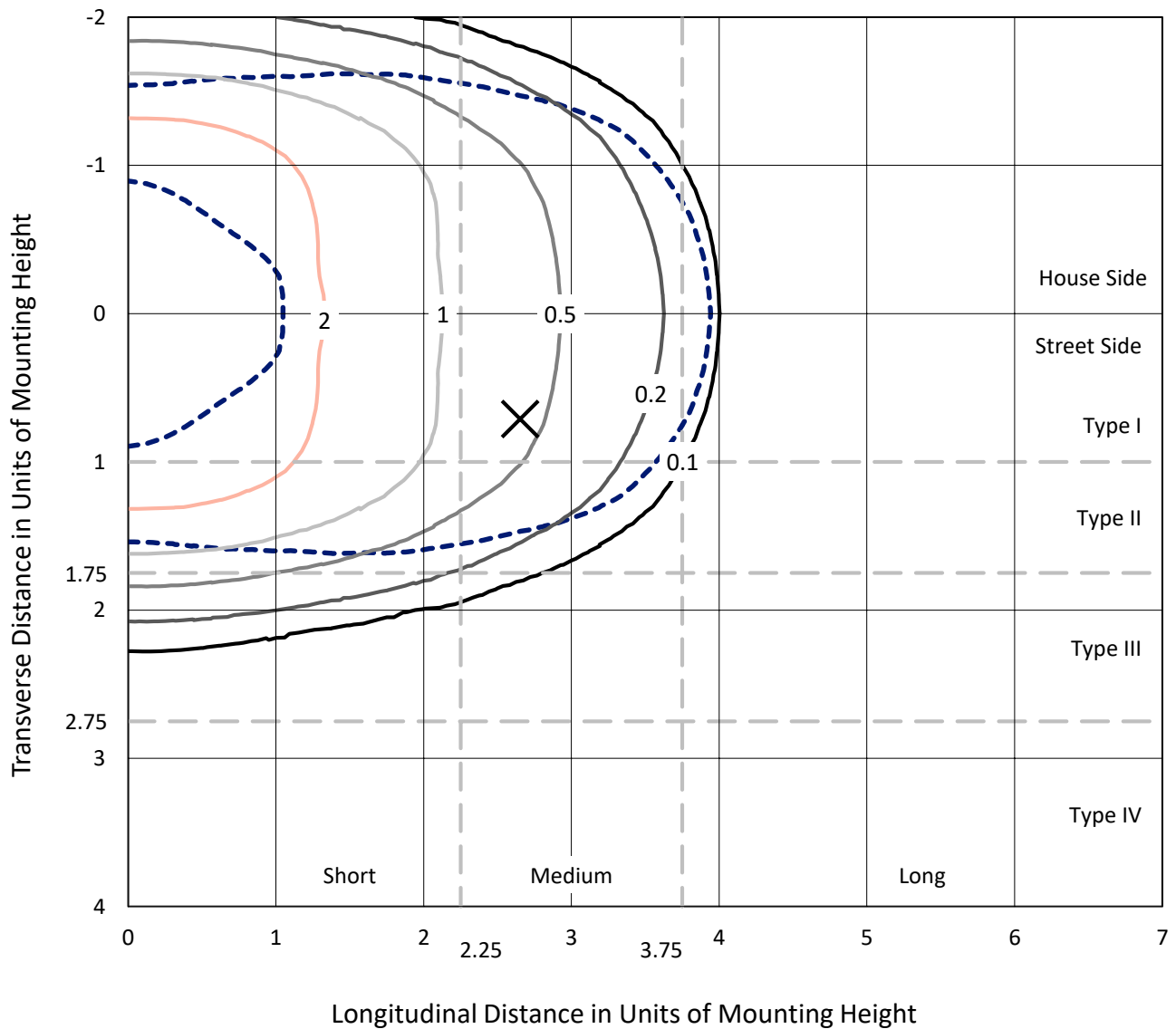
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

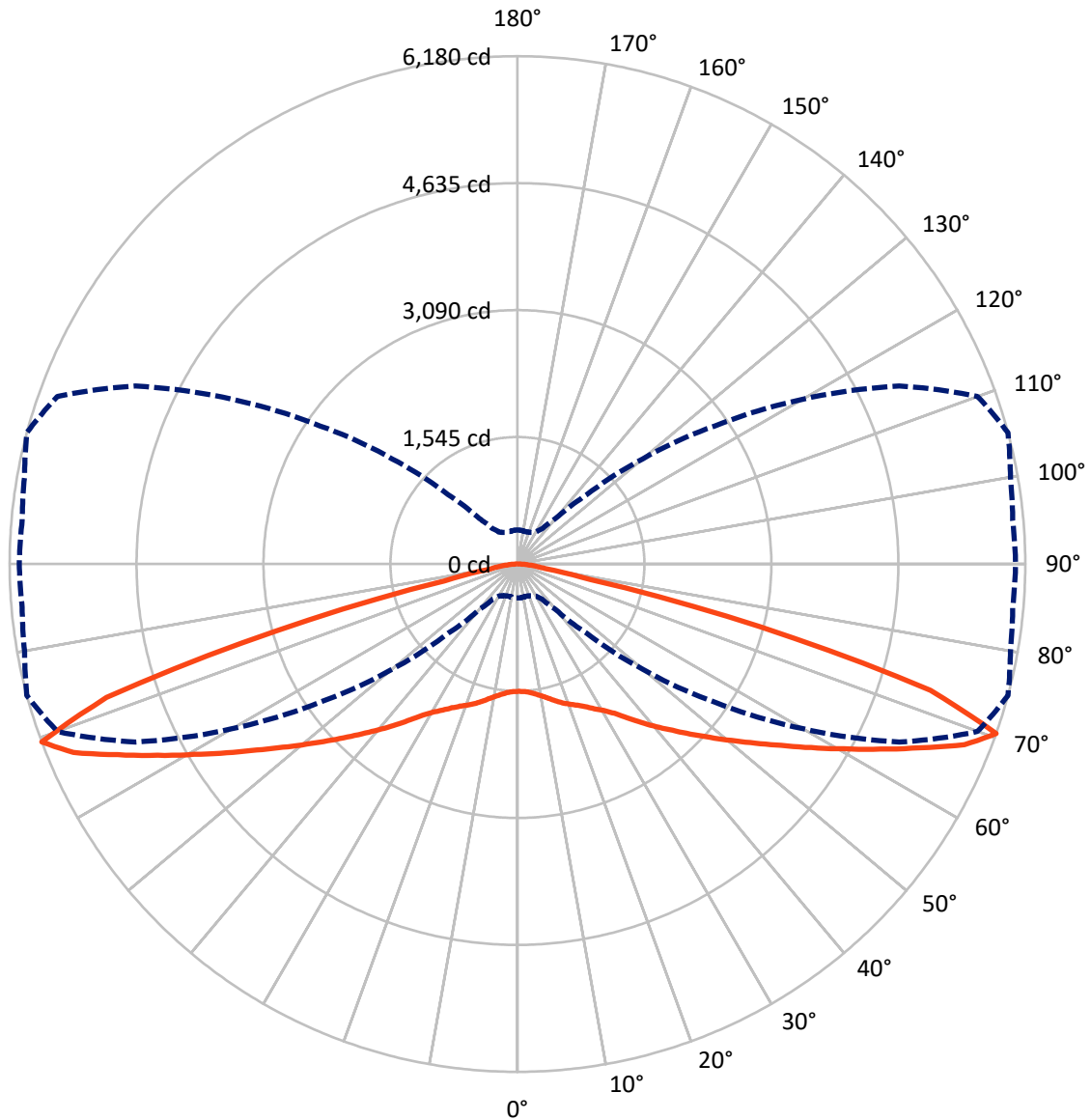
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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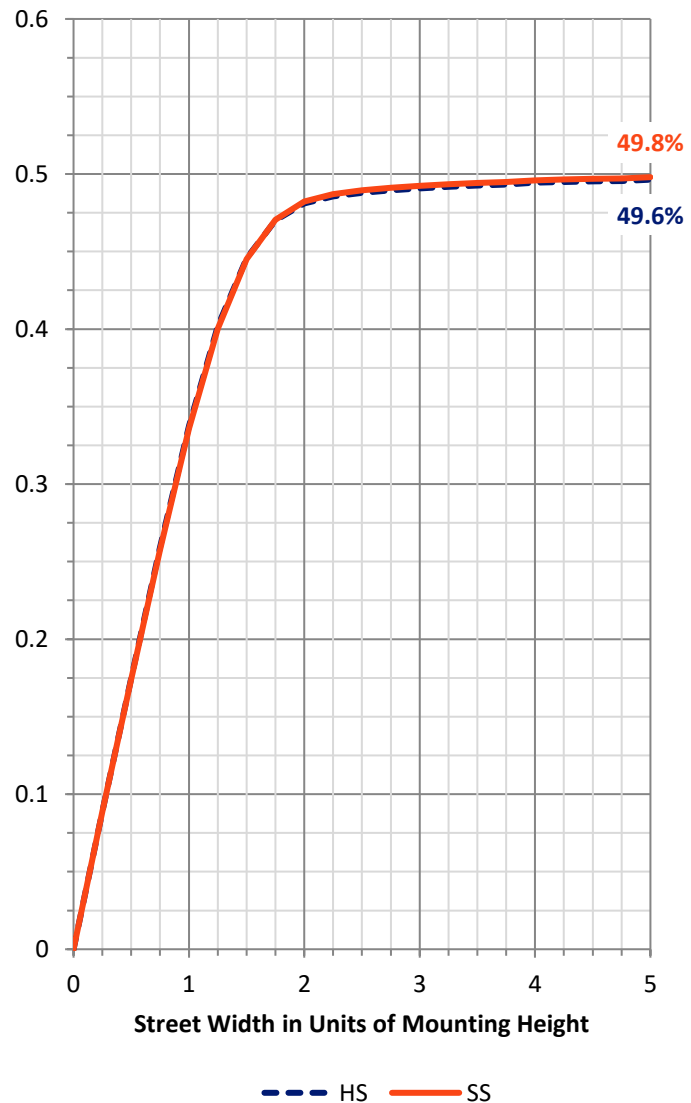
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6985.2	0.0	6985.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6985.2	0.0	6985.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13970.4	0.0	13970.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	1.1
10°-20°	461.8	3.3
20°-30°	869.2	6.2
30°-40°	1539.1	11.0
40°-50°	2573.9	18.4
50°-60°	3586.8	25.7
60°-70°	3326.1	23.8
70°-80°	1325.6	9.5
80°-90°	139.3	1.0
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°	13970.4	100.0
0°-180°	13970.4	100.0



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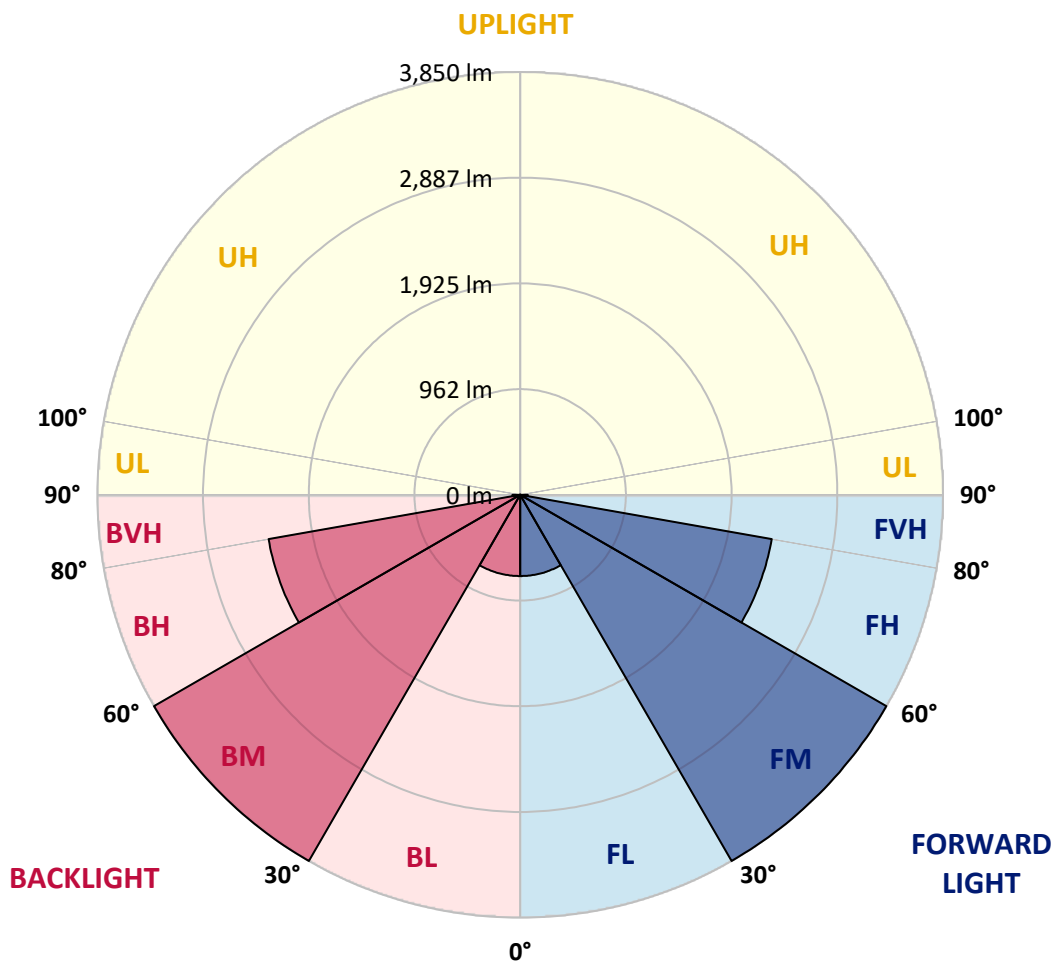
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	739.8	5.3			
FM	(30°-60°)	3849.9	27.6			
FH	(60°-80°)	2325.9	16.6			G2/5000
FVH	(80°-90°)	69.7	0.5			G1/100
BL	(0°-30°)	739.8	5.3	B2/1000		
BM	(30°-60°)	3849.9	27.6	B3/5000		
BH	(60°-80°)	2325.9	16.6	B3/2500		G3/2500
BVH	(80°-90°)	69.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1547.0	1545.7	1547.0	1546.4	1547.6	1547.6	1549.0	1551.6	1551.6	1553.7	1552.9
5°	1531.9	1531.2	1533.1	1535.1	1537.1	1541.1	1545.1	1551.0	1555.6	1558.9	1562.1
7.5°	1502.1	1502.1	1504.8	1509.4	1514.0	1522.6	1531.9	1543.7	1555.6	1565.5	1574.1
10°	1477.7	1479.0	1482.3	1490.2	1498.1	1511.3	1523.9	1541.1	1557.5	1574.1	1587.3
12.5°	1463.1	1465.2	1471.1	1483.0	1496.2	1514.0	1533.1	1554.9	1573.4	1593.2	1606.4
15°	1467.7	1469.1	1477.7	1492.2	1509.4	1531.9	1557.5	1583.3	1605.1	1626.3	1644.1
17.5°	1493.5	1495.6	1505.4	1521.9	1539.7	1566.1	1593.9	1622.9	1650.0	1673.8	1695.5
20°	1539.7	1541.7	1554.3	1572.1	1593.2	1620.3	1648.1	1678.4	1708.7	1733.9	1758.2
22.5°	1605.1	1608.4	1620.3	1638.2	1661.9	1690.9	1724.0	1756.3	1785.4	1808.5	1830.3
25°	1690.9	1698.2	1709.5	1729.2	1754.4	1780.8	1816.4	1849.4	1877.1	1898.9	1914.8
27.5°	1812.5	1822.4	1830.9	1850.1	1874.5	1899.6	1935.2	1964.3	1990.7	2011.8	2023.7
30°	1973.6	1983.4	1992.0	2010.5	2033.0	2056.7	2090.4	2116.2	2132.6	2149.2	2148.5
32.5°	2169.0	2179.5	2182.9	2202.6	2225.7	2251.5	2281.9	2296.4	2309.6	2311.6	2299.7
35°	2387.6	2392.8	2406.0	2432.5	2458.9	2479.9	2509.0	2516.3	2516.3	2506.3	2479.9
37.5°	2627.2	2630.5	2649.0	2678.7	2705.8	2727.6	2747.3	2761.9	2754.6	2733.5	2689.2
40°	2890.0	2896.0	2922.4	2948.8	2979.1	2999.6	3020.8	3023.3	3016.1	2985.1	2925.0
42.5°	3140.9	3146.2	3172.6	3214.2	3253.8	3282.1	3302.0	3306.0	3282.9	3254.4	3179.8
45°	3356.8	3370.6	3405.0	3453.9	3511.3	3551.6	3578.7	3589.8	3569.4	3532.5	3445.9
47.5°	3527.9	3541.7	3590.6	3648.7	3720.0	3785.3	3830.2	3854.0	3848.6	3820.9	3726.5
50°	3653.3	3666.5	3719.2	3790.5	3873.8	3955.0	4031.6	4088.3	4108.2	4095.6	4009.1
52.5°	3667.8	3689.6	3751.7	3847.4	3955.6	4066.5	4175.5	4271.9	4337.3	4347.2	4283.2
55°	3465.0	3486.8	3572.7	3714.6	3875.8	4056.7	4231.0	4393.4	4522.2	4588.2	4554.5
57.5°	2987.0	3026.0	3116.4	3282.9	3519.9	3790.5	4068.6	4357.1	4619.2	4794.2	4827.9
60°	2289.2	2335.4	2426.4	2603.4	2867.5	3190.4	3561.5	3988.0	4450.9	4844.4	5079.5
62.5°	1468.4	1512.0	1607.8	1761.6	1976.9	2326.8	2724.9	3231.3	3853.4	4474.6	5034.6
65°	754.7	778.5	828.6	921.8	1089.4	1350.9	1708.1	2213.3	2924.3	3690.9	4500.4
67.5°	478.0	482.6	493.9	507.1	550.0	640.5	806.8	1121.8	1706.8	2506.3	3453.9
70°	413.4	413.4	408.1	406.1	411.3	423.9	449.7	522.9	720.4	1189.8	1992.0
72.5°	378.3	374.4	365.1	357.8	356.5	356.5	361.8	373.1	404.8	484.7	779.8
75°	348.6	337.4	324.9	316.3	312.9	309.6	309.0	311.0	317.6	330.1	372.4
77.5°	312.3	297.8	283.3	274.7	270.7	266.1	262.1	257.5	254.2	258.2	276.6
80°	268.7	252.3	241.0	235.7	231.8	225.2	216.6	208.7	201.4	200.1	211.2
82.5°	216.6	197.4	198.0	200.1	192.8	183.5	174.3	165.7	153.1	146.6	153.1
85°	174.9	165.1	160.4	173.0	162.4	148.5	134.0	118.9	99.0	83.2	90.4
87.5°	68.0	68.0	101.7	156.5	140.7	114.9	98.4	83.9	52.2	40.3	40.9
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°	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7	1549.7
2.5°	1552.3	1553.7	1552.9	1552.3	1552.3	1551.6	1552.3	1552.3
5°	1564.2	1567.5	1567.5	1568.8	1568.8	1569.4	1570.1	1569.4
7.5°	1582.0	1587.9	1591.9	1596.5	1597.2	1597.8	1599.2	1597.8
10°	1599.8	1611.8	1620.3	1628.8	1632.8	1634.2	1635.5	1635.5
12.5°	1622.3	1638.8	1654.0	1669.1	1676.4	1680.4	1680.4	1683.1
15°	1659.2	1675.8	1693.6	1714.1	1726.6	1733.2	1735.2	1735.2
17.5°	1711.4	1725.9	1741.2	1760.9	1776.8	1785.4	1787.3	1786.7
20°	1772.2	1786.1	1794.6	1807.1	1821.1	1830.9	1833.5	1833.5
22.5°	1841.5	1849.4	1850.7	1854.7	1866.0	1879.2	1885.1	1886.4
25°	1918.0	1920.1	1914.8	1914.8	1922.0	1934.6	1940.5	1941.2
27.5°	2017.2	2007.2	1994.0	1989.4	1994.0	2008.6	2015.8	2018.5
30°	2140.6	2116.8	2086.4	2069.9	2067.3	2086.4	2099.6	2101.7
32.5°	2281.9	2247.5	2207.3	2173.6	2165.0	2176.9	2192.8	2192.1
35°	2449.6	2408.6	2359.8	2316.9	2297.0	2309.0	2331.4	2334.1
37.5°	2643.1	2589.6	2533.4	2479.3	2448.2	2451.6	2475.3	2483.3
40°	2858.9	2789.6	2719.0	2646.4	2602.1	2593.5	2622.5	2627.2
42.5°	3090.0	3000.9	2911.8	2822.0	2765.2	2752.0	2785.7	2783.7
45°	3336.4	3222.8	3118.5	3019.4	2952.0	2932.3	2960.0	2960.0
47.5°	3601.1	3461.2	3337.0	3224.8	3151.4	3123.1	3149.5	3151.4
50°	3881.7	3733.2	3587.2	3462.5	3374.6	3338.3	3372.7	3377.9
52.5°	4161.0	4016.4	3869.2	3726.5	3620.2	3576.0	3615.6	3632.8
55°	4444.2	4302.3	4161.7	4022.3	3896.2	3844.0	3886.3	3908.1
57.5°	4743.3	4612.0	4478.0	4337.3	4215.8	4134.6	4179.5	4208.5
60°	5094.0	4981.7	4842.4	4687.3	4564.4	4481.9	4507.6	4533.4
62.5°	5371.3	5414.9	5296.6	5117.1	4959.3	4853.6	4878.8	4905.8
65°	5237.2	5684.2	5789.2	5607.6	5389.1	5224.7	5214.1	5228.0
67.5°	4377.6	5245.8	5879.0	6052.0	5869.1	5640.7	5598.4	5618.9
70°	2928.3	4009.8	5126.9	5958.9	6180.1	6091.7	6050.0	6062.6
72.5°	1406.4	2335.4	3478.2	4584.3	5257.7	5566.7	5665.7	5714.0
75°	514.3	927.0	1676.4	2526.2	3049.8	3530.4	3844.0	3972.1
77.5°	310.4	374.4	535.5	806.2	913.2	1022.1	979.9	1001.0
80°	229.8	259.5	293.8	330.1	342.0	342.0	328.8	318.2
82.5°	161.1	180.2	196.7	216.6	221.9	212.0	174.3	138.6
85°	103.6	112.2	119.5	132.1	128.8	122.9	82.6	73.2
87.5°	47.6	54.1	56.8	62.7	60.0	57.5	40.9	34.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)