

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: P300673

Luminaire Tested: **GLNA-AF-04-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300673
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: GLNA-AF-04-LED-E1-RW-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Rectangular
Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14000.2 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' 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

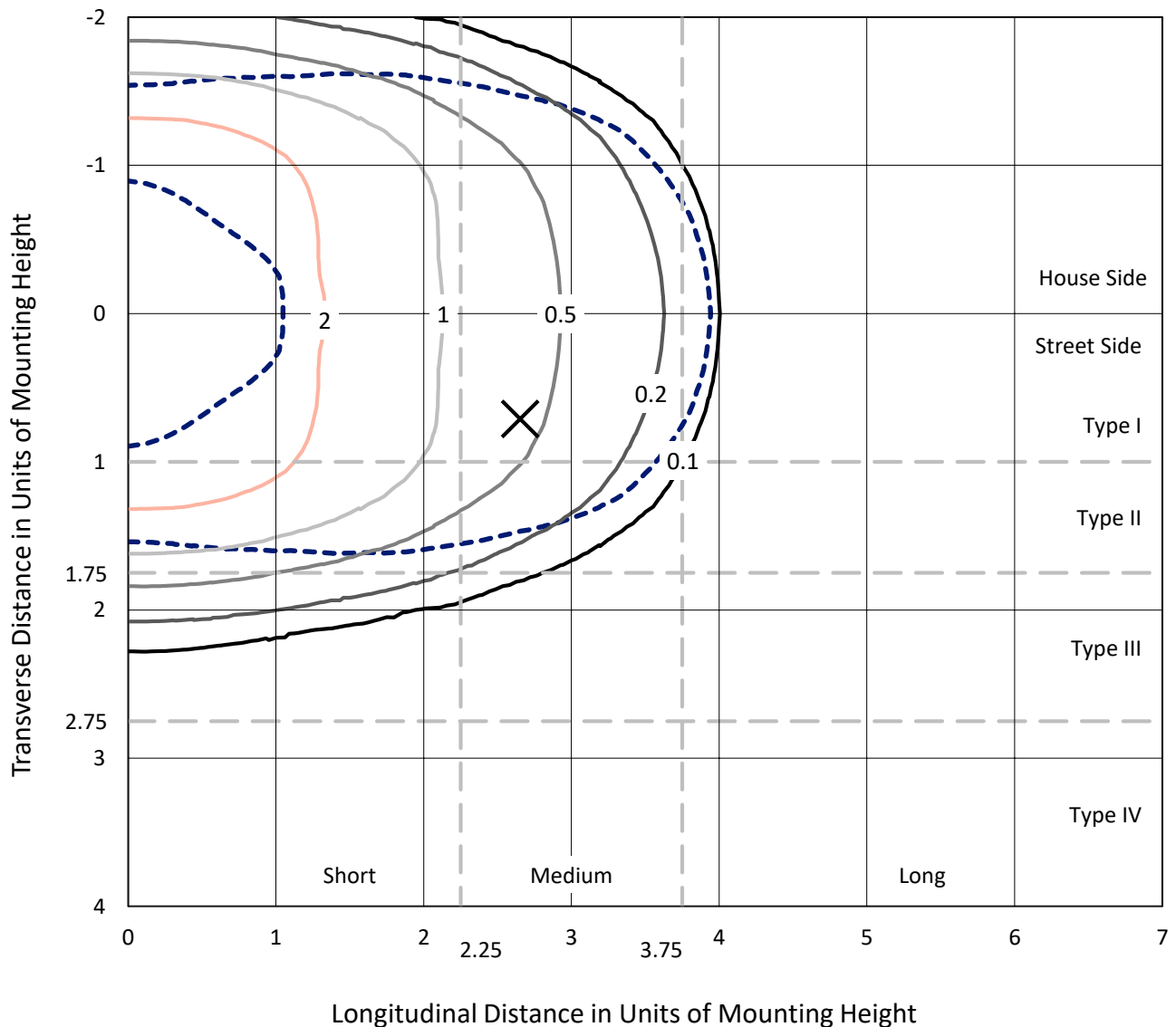


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

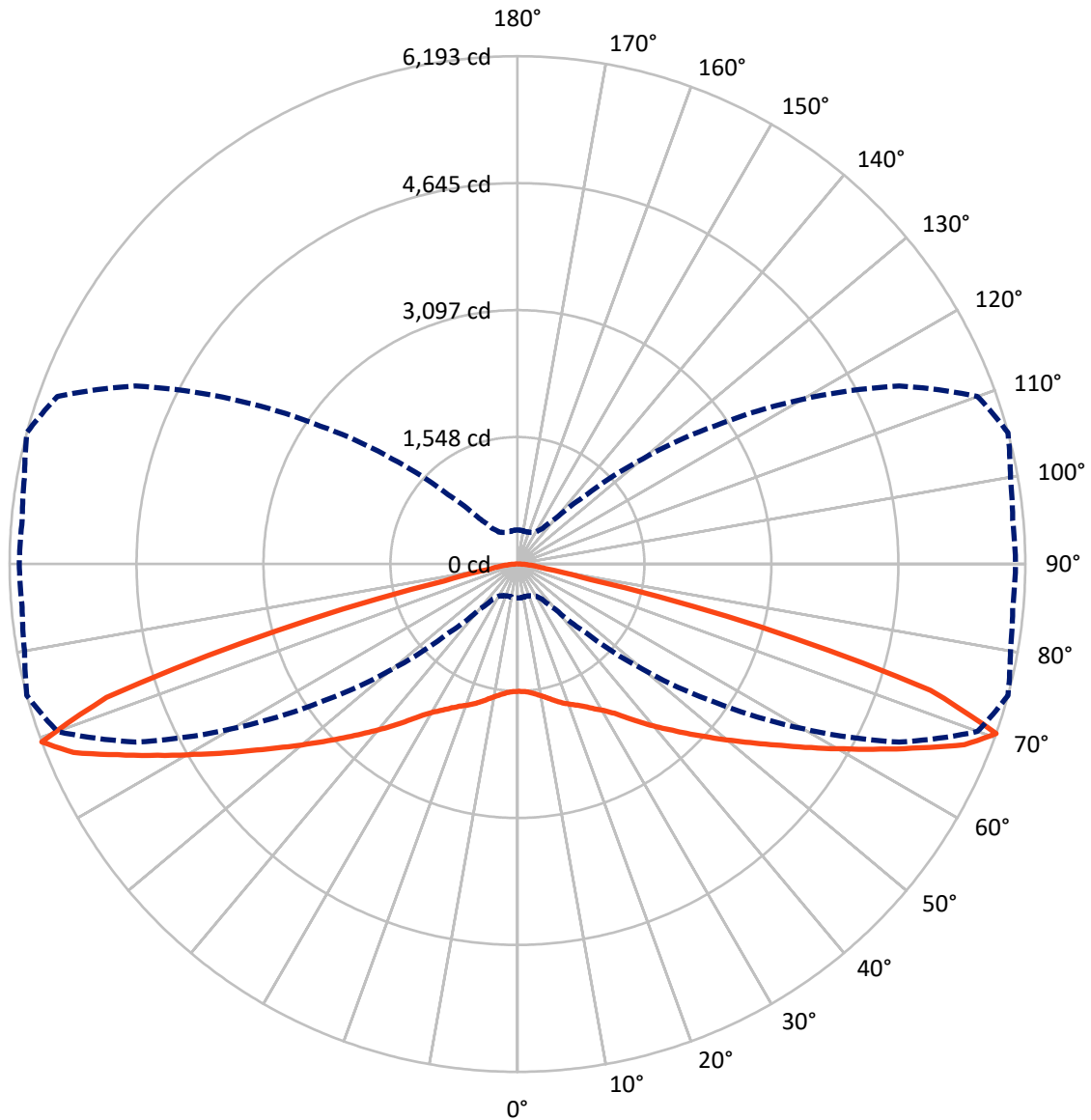


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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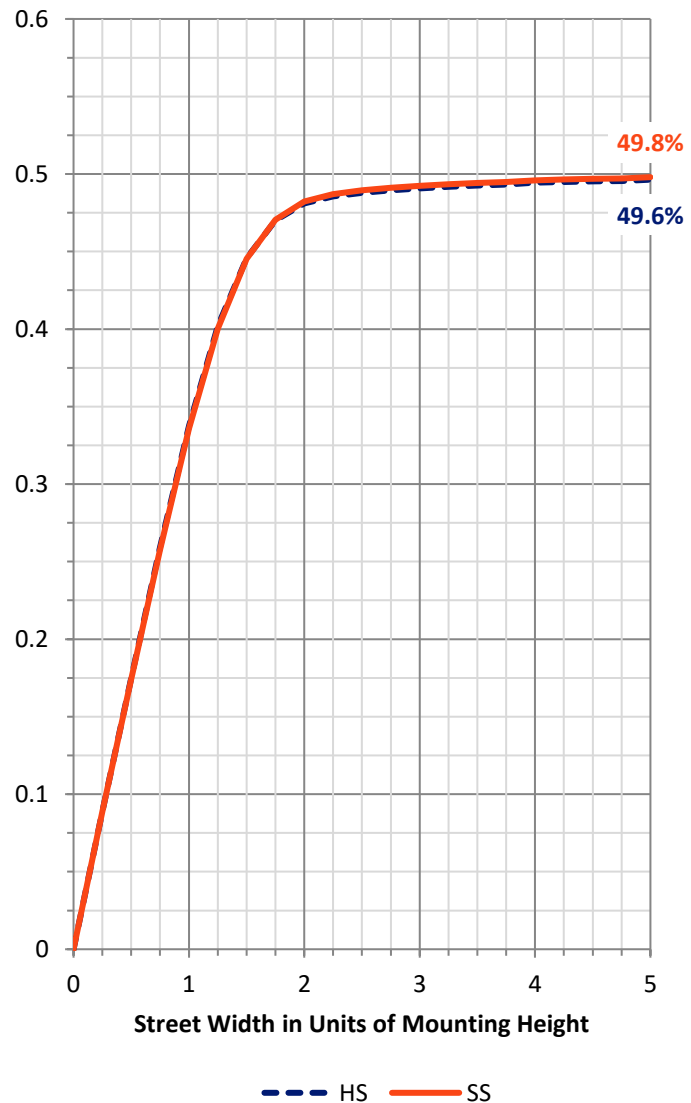
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7000.1	0.0	7000.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7000.1	0.0	7000.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	14000.2	0.0	14000.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	1.1
10°-20°	462.8	3.3
20°-30°	871.0	6.2
30°-40°	1542.4	11.0
40°-50°	2579.4	18.4
50°-60°	3594.4	25.7
60°-70°	3333.2	23.8
70°-80°	1328.4	9.5
80°-90°	139.6	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°	14000.2	100.0
0°-180°	14000.2	100.0



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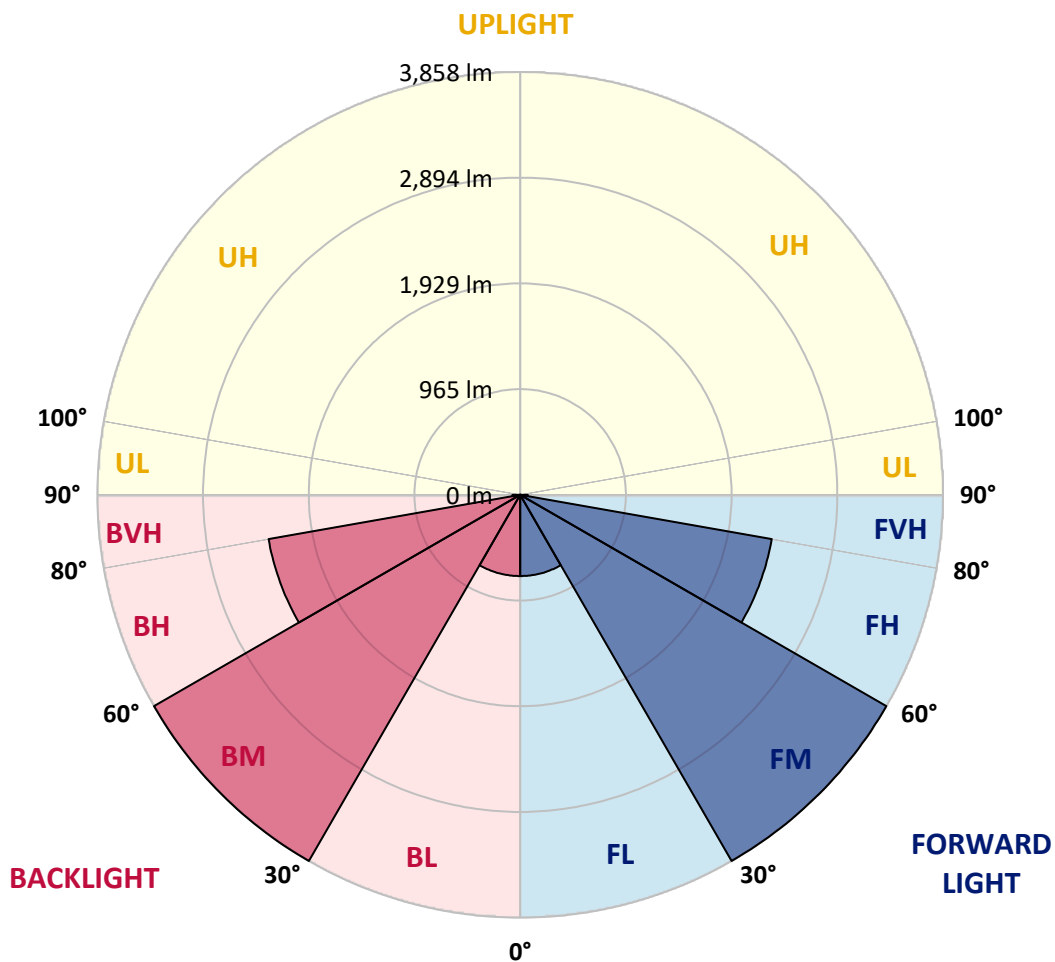
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	741.4	5.3			
FM	(30°-60°)	3858.1	27.6			
FH	(60°-80°)	2330.8	16.6			G2/5000
FVH	(80°-90°)	69.8	0.5			G1/100
BL	(0°-30°)	741.4	5.3	B2/1000		
BM	(30°-60°)	3858.1	27.6	B3/5000		
BH	(60°-80°)	2330.8	16.6	B3/2500		G3/2500
BVH	(80°-90°)	69.8	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°	1553.0	1553.0	1553.0	1553.0	1553.0	1553.0	1553.0	1553.0	1553.0	1553.0	1553.0
2.5°	1550.3	1549.0	1550.3	1549.6	1551.0	1551.0	1552.3	1554.9	1554.9	1556.9	1556.3
5°	1535.1	1534.4	1536.4	1538.4	1540.4	1544.4	1548.3	1554.3	1558.9	1562.2	1565.5
7.5°	1505.3	1505.3	1508.0	1512.6	1517.2	1525.8	1535.1	1547.0	1558.9	1568.8	1577.4
10°	1480.8	1482.2	1485.5	1493.4	1501.3	1514.6	1527.1	1544.4	1560.9	1577.4	1590.7
12.5°	1466.3	1468.3	1474.2	1486.1	1499.4	1517.2	1536.4	1558.2	1576.8	1596.6	1609.9
15°	1470.9	1472.2	1480.8	1495.4	1512.6	1535.1	1560.9	1586.7	1608.5	1629.7	1647.6
17.5°	1496.7	1498.7	1508.6	1525.2	1543.0	1569.5	1597.3	1626.4	1653.5	1677.3	1699.2
20°	1543.0	1545.0	1557.6	1575.4	1596.6	1623.8	1651.5	1682.0	1712.4	1737.6	1762.0
22.5°	1608.5	1611.8	1623.8	1641.6	1665.4	1694.6	1727.6	1760.1	1789.2	1812.3	1834.2
25°	1694.6	1701.8	1713.1	1732.9	1758.1	1784.5	1820.3	1853.4	1881.1	1903.0	1918.9
27.5°	1816.3	1826.2	1834.8	1854.0	1878.5	1903.6	1939.4	1968.5	1995.0	2016.1	2028.0
30°	1977.7	1987.7	1996.3	2014.8	2037.3	2061.1	2094.9	2120.7	2137.2	2153.8	2153.1
32.5°	2173.6	2184.2	2187.5	2207.3	2230.5	2256.3	2286.7	2301.3	2314.5	2316.5	2304.6
35°	2392.6	2397.9	2411.1	2437.6	2464.1	2485.3	2514.4	2521.6	2521.6	2511.7	2485.3
37.5°	2632.8	2636.1	2654.6	2684.4	2711.5	2733.4	2753.2	2767.8	2760.5	2739.3	2695.0
40°	2896.2	2902.1	2928.6	2955.0	2985.5	3006.0	3027.2	3029.8	3022.5	2991.4	2931.2
42.5°	3147.6	3152.9	3179.3	3221.0	3260.7	3289.2	3309.0	3313.0	3289.8	3261.4	3186.6
45°	3364.0	3377.9	3412.3	3461.2	3518.8	3559.2	3586.3	3597.5	3577.0	3540.0	3453.3
47.5°	3535.3	3549.2	3598.2	3656.4	3727.9	3793.4	3838.4	3862.2	3856.9	3829.1	3734.5
50°	3661.0	3674.3	3727.2	3798.7	3882.0	3963.4	4040.2	4097.1	4116.9	4104.4	4017.7
52.5°	3675.6	3697.4	3759.6	3855.6	3964.1	4075.3	4184.4	4281.0	4346.5	4356.5	4292.3
55°	3472.5	3494.3	3580.3	3722.6	3884.0	4065.3	4240.0	4402.8	4531.8	4598.0	4564.2
57.5°	2993.4	3032.5	3123.1	3289.8	3527.4	3798.7	4077.2	4366.4	4629.1	4804.4	4838.2
60°	2294.0	2340.3	2431.7	2609.0	2873.7	3197.2	3569.1	3996.5	4460.4	4854.7	5090.3
62.5°	1471.6	1515.2	1611.2	1765.3	1981.1	2331.7	2730.7	3238.2	3861.5	4484.2	5045.3
65°	756.3	780.1	830.4	923.7	1091.8	1353.8	1711.8	2217.9	2930.6	3698.8	4510.0
67.5°	479.1	483.7	494.9	508.2	551.2	641.8	808.6	1124.2	1710.4	2511.7	3461.2
70°	414.2	414.2	408.9	406.9	412.2	424.8	450.6	524.0	721.9	1192.3	1996.3
72.5°	379.1	375.2	365.9	358.6	357.3	357.3	362.6	373.8	405.6	485.7	781.4
75°	349.4	338.1	325.5	316.9	313.6	310.3	309.7	311.6	318.3	330.8	373.2
77.5°	313.0	298.4	283.9	275.3	271.3	266.7	262.7	258.1	254.7	258.7	277.2
80°	269.3	252.8	241.5	236.2	232.2	225.6	217.0	209.1	201.8	200.5	211.7
82.5°	217.0	197.8	198.5	200.5	193.2	183.9	174.7	166.1	153.5	146.9	153.5
85°	175.3	165.4	160.8	173.4	162.8	148.9	134.3	119.1	99.3	83.4	90.6
87.5°	68.2	68.2	101.9	156.8	140.9	115.1	98.6	84.0	52.3	40.4	41.0
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°	1553.0	1553.0	1553.0	1553.0	1553.0	1553.0	1553.0	1553.0
2.5°	1555.6	1556.9	1556.3	1555.6	1555.6	1554.9	1555.6	1555.6
5°	1567.5	1570.8	1570.8	1572.1	1572.1	1572.8	1573.5	1572.8
7.5°	1585.4	1591.3	1595.3	1599.9	1600.6	1601.3	1602.6	1601.3
10°	1603.2	1615.1	1623.8	1632.4	1636.3	1637.6	1639.0	1639.0
12.5°	1625.7	1642.3	1657.5	1672.7	1680.0	1684.0	1684.0	1686.6
15°	1662.8	1679.3	1697.2	1717.7	1730.3	1736.9	1738.9	1738.9
17.5°	1715.1	1729.6	1744.8	1764.7	1780.6	1789.2	1791.2	1790.5
20°	1775.9	1789.8	1798.4	1811.0	1824.9	1834.8	1837.5	1837.5
22.5°	1845.4	1853.4	1854.7	1858.6	1869.9	1883.1	1889.1	1890.4
25°	1922.2	1924.2	1918.9	1918.9	1926.1	1938.7	1944.7	1945.3
27.5°	2021.4	2011.5	1998.3	1993.6	1998.3	2012.8	2020.1	2022.7
30°	2145.2	2121.3	2090.9	2074.4	2071.7	2090.9	2104.1	2106.1
32.5°	2286.7	2252.3	2212.0	2178.2	2169.6	2181.5	2197.4	2196.8
35°	2454.8	2413.8	2364.8	2321.8	2302.0	2313.9	2336.4	2339.0
37.5°	2648.7	2595.1	2538.8	2484.6	2453.5	2456.8	2480.6	2488.6
40°	2865.1	2795.6	2724.8	2652.0	2607.7	2599.1	2628.2	2632.8
42.5°	3096.6	3007.3	2918.0	2828.0	2771.1	2757.9	2791.6	2789.6
45°	3343.4	3229.6	3125.1	3025.8	2958.4	2938.5	2966.3	2966.3
47.5°	3608.8	3468.5	3344.1	3231.6	3158.2	3129.7	3156.2	3158.2
50°	3890.0	3741.1	3594.9	3469.8	3381.8	3345.4	3379.8	3385.1
52.5°	4169.9	4025.0	3877.4	3734.5	3628.0	3583.6	3623.3	3640.5
55°	4453.7	4311.5	4170.5	4030.9	3904.5	3852.3	3894.6	3916.5
57.5°	4753.5	4621.8	4487.5	4346.5	4224.8	4143.4	4188.4	4217.5
60°	5104.8	4992.3	4852.7	4697.2	4574.2	4491.5	4517.3	4543.1
62.5°	5382.7	5426.4	5308.0	5128.0	4969.8	4864.0	4889.1	4916.2
65°	5248.4	5696.4	5801.6	5619.6	5400.6	5235.8	5225.2	5239.1
67.5°	4386.9	5257.0	5891.6	6064.9	5881.6	5652.7	5610.3	5630.9
70°	2934.5	4018.4	5137.9	5971.6	6193.3	6104.6	6062.9	6075.5
72.5°	1409.4	2340.3	3485.7	4594.0	5268.9	5578.6	5677.8	5726.1
75°	515.4	929.0	1680.0	2531.6	3056.3	3538.0	3852.3	3980.6
77.5°	311.0	375.2	536.6	807.9	915.1	1024.3	981.9	1003.1
80°	230.3	260.0	294.4	330.8	342.7	342.7	329.5	318.9
82.5°	161.4	180.6	197.2	217.0	222.3	212.4	174.7	139.0
85°	103.9	112.5	119.8	132.3	129.0	123.1	82.7	73.4
87.5°	47.6	54.3	56.9	62.9	60.2	57.6	41.0	34.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)