

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: P190831

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12634.4 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

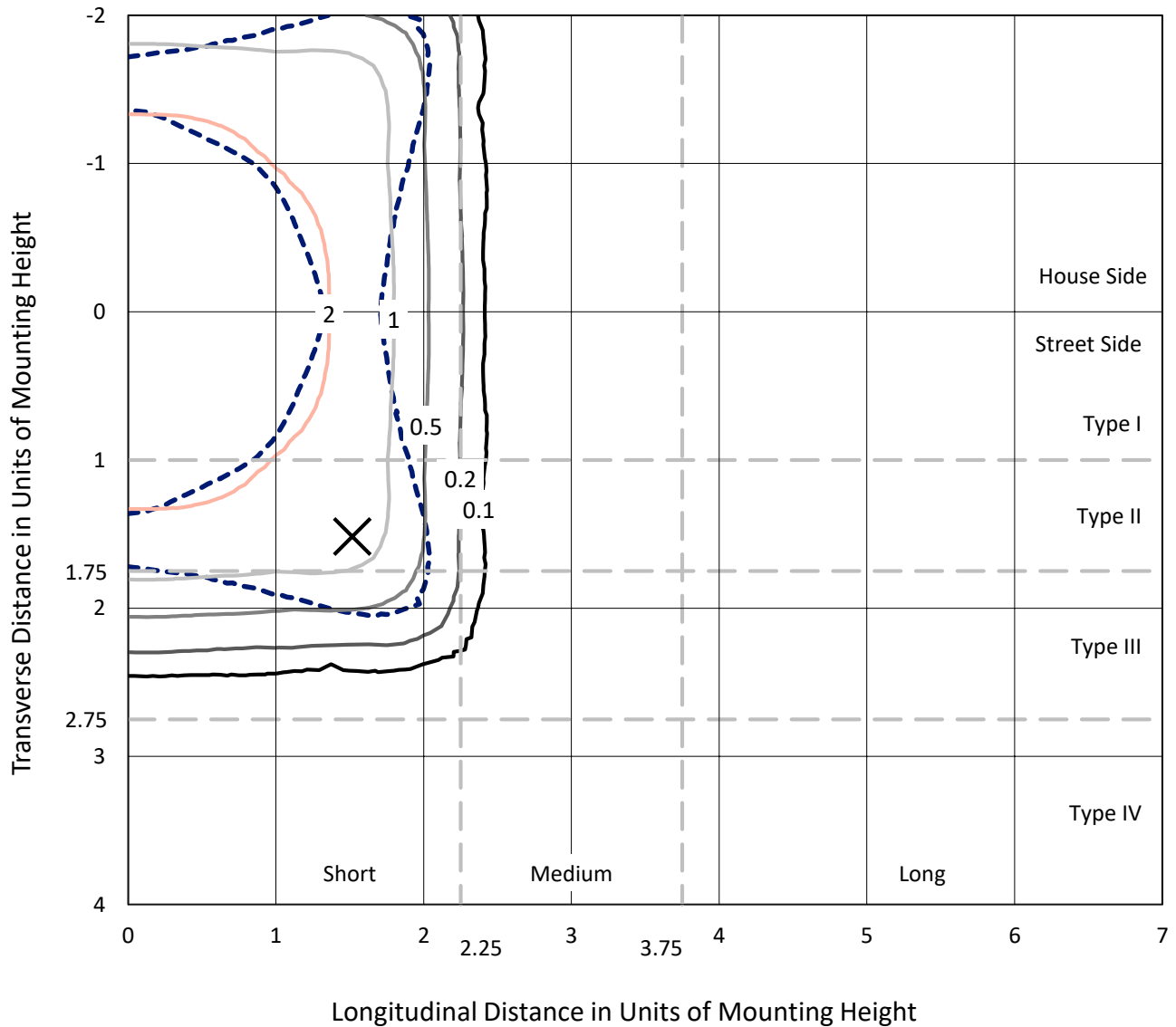
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

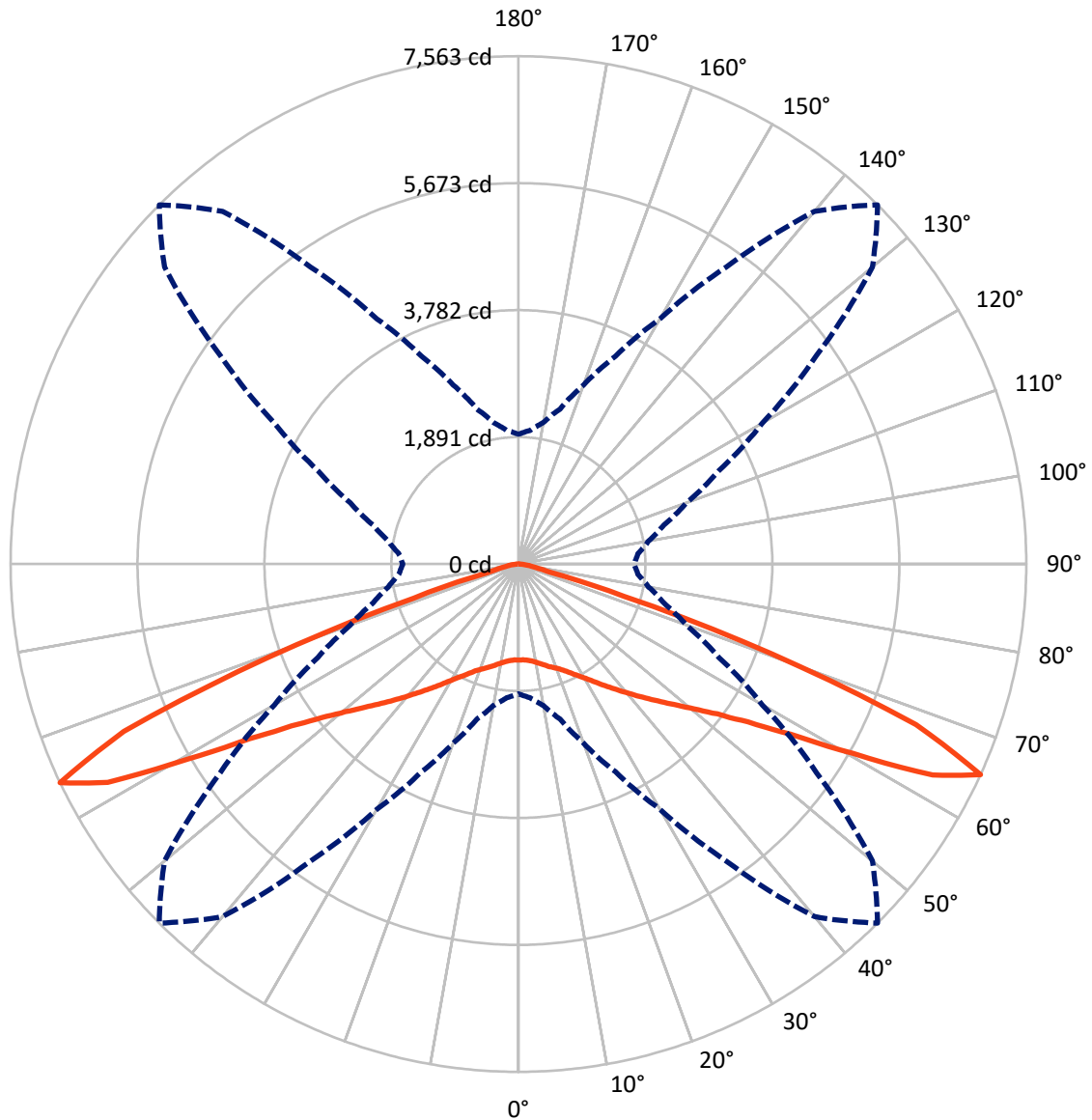
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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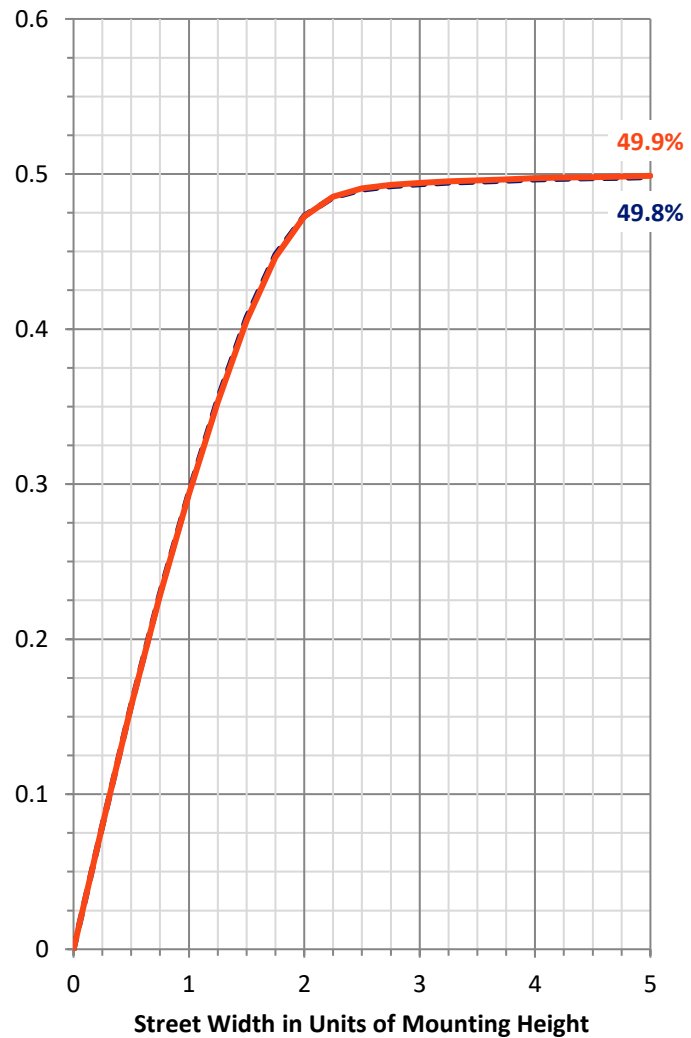
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6317.2	0.0	6317.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6317.2	0.0	6317.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	12634.4	0.0	12634.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	1.1
10°-20°	446.9	3.5
20°-30°	835.6	6.6
30°-40°	1413.2	11.2
40°-50°	2310.8	18.3
50°-60°	3674.5	29.1
60°-70°	3321.5	26.3
70°-80°	420.3	3.3
80°-90°	72.3	0.6
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°	12634.4	100.0
0°-180°	12634.4	100.0



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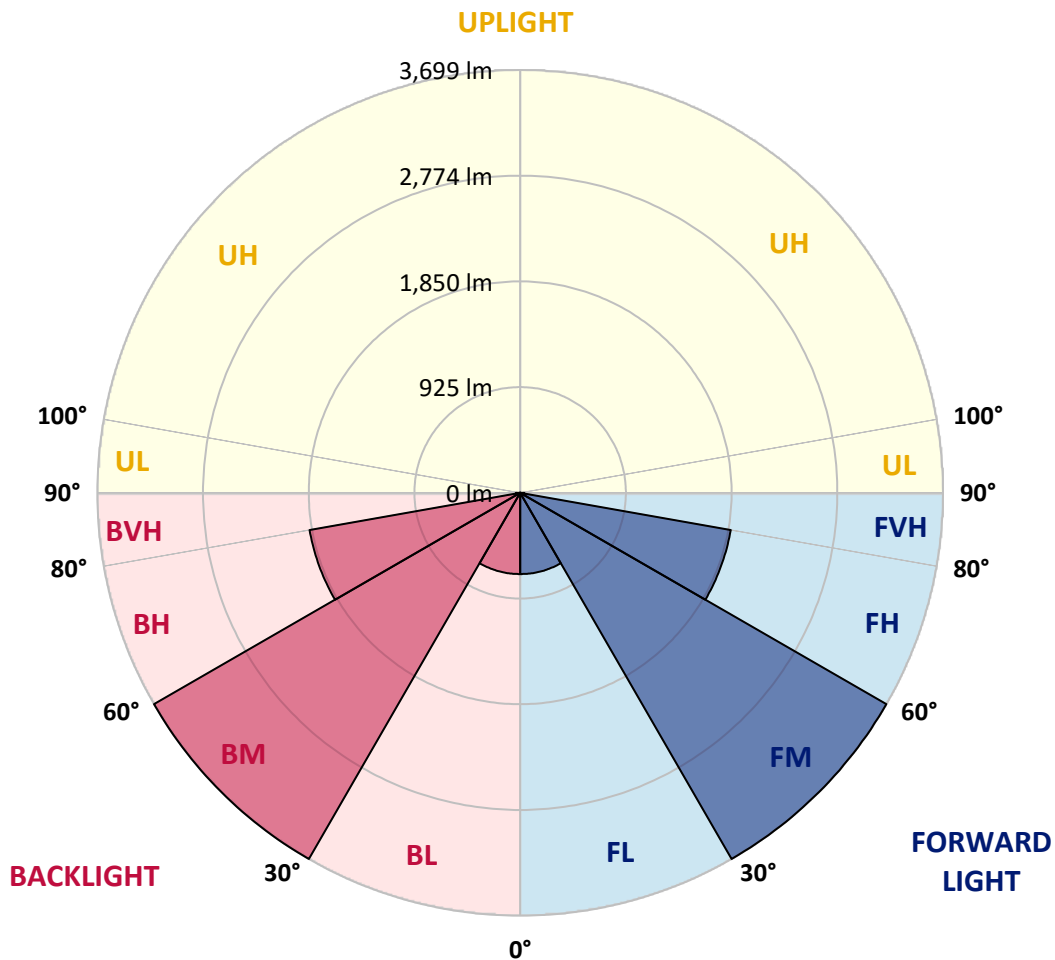
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.9	5.6			
FM	(30°-60°)	3699.2	29.3			
FH	(60°-80°)	1870.9	14.8			G2/5000
FVH	(80°-90°)	36.1	0.3			G1/100
BL	(0°-30°)	710.9	5.6	B2/1000		
BM	(30°-60°)	3699.2	29.3	B3/5000		
BH	(60°-80°)	1870.9	14.8	B3/2500		G2/5000
BVH	(80°-90°)	36.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1430.8	1431.9	1433.2	1431.9	1433.2	1431.4	1430.2	1431.9	1430.2	1428.4	1429.6
5°	1443.2	1443.8	1443.8	1442.1	1443.8	1442.6	1440.8	1443.2	1441.4	1439.7	1440.8
7.5°	1463.9	1466.3	1464.6	1462.7	1463.9	1462.7	1461.6	1462.1	1461.6	1459.8	1460.4
10°	1491.8	1493.5	1492.3	1491.8	1492.9	1492.3	1491.2	1490.5	1491.2	1489.3	1489.3
12.5°	1525.4	1524.9	1524.3	1524.9	1526.7	1526.7	1526.0	1526.7	1527.8	1528.4	1527.3
15°	1558.6	1559.8	1559.8	1559.8	1563.4	1566.2	1568.1	1569.2	1571.6	1572.2	1569.8
17.5°	1600.0	1600.0	1599.4	1600.0	1603.6	1608.3	1610.0	1612.5	1614.8	1616.6	1613.6
20°	1646.1	1647.4	1647.4	1648.5	1653.3	1658.6	1658.6	1659.7	1658.6	1659.7	1658.0
22.5°	1702.4	1706.0	1706.0	1706.5	1711.3	1717.7	1716.0	1717.7	1714.8	1717.1	1714.8
25°	1775.7	1781.1	1779.9	1779.9	1783.4	1787.6	1788.2	1791.7	1791.2	1794.1	1792.3
27.5°	1858.6	1866.9	1869.2	1868.6	1871.0	1875.2	1876.3	1880.5	1878.1	1880.5	1879.3
30°	1958.0	1961.5	1966.3	1968.1	1971.0	1975.1	1975.1	1975.7	1972.8	1976.3	1978.1
32.5°	2060.9	2067.5	2072.2	2082.8	2088.1	2091.1	2090.5	2091.7	2088.8	2093.5	2097.0
35°	2197.1	2201.8	2209.5	2217.8	2224.9	2224.3	2222.5	2223.1	2223.1	2227.3	2230.7
37.5°	2361.0	2362.2	2372.2	2384.1	2387.6	2384.1	2373.3	2371.0	2365.7	2371.0	2376.9
40°	2534.4	2538.5	2558.6	2566.3	2568.0	2561.6	2546.1	2537.3	2525.5	2532.0	2540.3
42.5°	2716.0	2724.3	2742.6	2756.2	2762.2	2758.0	2736.7	2723.1	2707.8	2711.2	2719.5
45°	2917.1	2927.3	2953.3	2966.3	2977.5	2971.1	2950.3	2929.6	2905.4	2907.1	2920.1
47.5°	3142.0	3152.1	3185.8	3207.7	3213.6	3212.5	3189.4	3161.0	3127.9	3126.6	3137.9
50°	3394.2	3404.2	3446.2	3479.9	3497.1	3495.3	3468.1	3427.8	3387.6	3388.2	3402.4
52.5°	3640.3	3652.7	3696.4	3754.4	3788.2	3812.4	3795.9	3758.0	3708.9	3710.0	3723.1
55°	3871.1	3891.7	3942.0	4020.7	4083.4	4151.5	4171.1	4169.9	4140.3	4148.6	4161.6
57.5°	3982.9	4013.6	4091.2	4215.4	4343.2	4481.6	4598.9	4686.4	4723.7	4779.9	4767.0
60°	3771.0	3820.1	3934.4	4117.2	4369.8	4658.6	4968.1	5270.4	5528.4	5723.1	5611.3
62.5°	3087.6	3151.5	3290.0	3524.3	3906.5	4368.7	4961.0	5675.7	6454.5	6924.4	6588.8
65°	1931.9	1998.2	2139.1	2389.9	2837.3	3411.8	4215.4	5400.1	6855.1	7563.4	6880.6
67.5°	753.3	789.3	865.7	1026.0	1362.2	1873.4	2679.9	4024.3	5764.5	6385.3	5657.4
70°	377.5	381.0	395.3	424.8	497.1	645.6	982.2	1865.7	3306.0	3992.9	3187.0
72.5°	272.8	273.3	280.5	293.5	316.6	349.7	413.6	571.0	1075.1	1643.2	1007.7
75°	208.9	211.2	215.4	222.5	234.9	251.4	274.6	329.0	407.6	472.8	397.6
77.5°	160.9	165.7	168.7	175.1	182.8	194.1	200.6	221.3	257.4	271.0	266.9
80°	122.4	126.6	133.2	138.5	143.8	149.1	146.8	156.2	175.1	186.4	180.4
82.5°	78.2	82.9	101.8	106.5	108.8	112.4	108.3	108.8	117.1	124.3	117.1
85°	50.3	53.3	64.5	70.4	71.0	73.3	71.6	67.4	67.4	61.6	69.3
87.5°	23.1	23.6	28.9	34.3	35.5	31.9	31.4	30.2	24.2	23.1	24.9
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°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1429.0	1430.2	1430.8	1432.5	1433.2	1433.2	1433.8	1434.9
5°	1440.2	1442.1	1442.6	1445.0	1445.5	1445.0	1446.1	1446.8
7.5°	1460.4	1463.3	1464.6	1466.9	1465.1	1467.4	1468.0	1468.0
10°	1489.9	1492.9	1493.5	1495.9	1494.7	1495.9	1495.9	1494.7
12.5°	1529.0	1529.6	1527.8	1529.6	1527.3	1528.4	1526.7	1525.4
15°	1572.2	1570.4	1566.2	1566.2	1562.8	1563.4	1562.8	1562.1
17.5°	1614.2	1610.6	1607.7	1606.5	1603.6	1603.0	1601.2	1601.2
20°	1660.4	1658.6	1656.8	1654.4	1651.5	1648.5	1648.0	1649.1
22.5°	1716.0	1715.4	1715.4	1714.3	1710.1	1707.1	1705.4	1705.4
25°	1790.6	1785.3	1785.3	1784.6	1782.9	1781.1	1777.5	1779.3
27.5°	1874.6	1871.6	1873.9	1873.4	1871.6	1871.6	1869.2	1869.2
30°	1978.1	1977.0	1980.5	1977.6	1971.6	1971.0	1968.7	1965.7
32.5°	2097.7	2096.4	2101.8	2098.3	2088.8	2083.4	2078.7	2076.4
35°	2230.7	2231.4	2237.9	2235.6	2224.9	2221.3	2213.1	2211.8
37.5°	2376.3	2385.8	2397.1	2399.4	2390.5	2388.2	2379.3	2374.6
40°	2547.4	2559.8	2576.9	2581.1	2571.6	2569.9	2557.4	2550.9
42.5°	2729.6	2750.9	2772.2	2775.8	2766.3	2756.9	2745.0	2740.3
45°	2933.2	2958.6	2986.4	2993.6	2979.3	2968.1	2952.6	2952.6
47.5°	3161.5	3193.6	3224.9	3244.4	3231.4	3219.5	3201.2	3189.4
50°	3431.4	3475.2	3516.0	3536.1	3515.4	3493.0	3460.9	3450.3
52.5°	3769.9	3817.1	3852.7	3842.0	3810.1	3778.7	3743.8	3729.6
55°	4201.8	4217.8	4217.8	4177.5	4113.6	4061.0	4006.0	3987.6
57.5°	4742.1	4680.5	4585.8	4465.7	4314.8	4183.5	4094.7	4052.7
60°	5376.9	5081.1	4746.8	4418.3	4148.6	3926.1	3794.1	3733.8
62.5°	5800.0	5026.1	4356.2	3829.0	3440.9	3172.8	2990.6	2919.5
65°	5420.7	4191.7	3294.7	2664.0	2240.9	1968.1	1787.6	1721.3
67.5°	3970.5	2626.6	1754.5	1257.4	921.3	734.9	660.9	630.1
70°	1782.3	924.8	566.8	442.6	381.7	350.3	336.7	331.9
72.5°	537.3	388.7	327.9	295.8	271.6	256.2	245.0	243.8
75°	324.3	269.9	239.7	220.8	205.3	192.9	187.0	185.3
77.5°	226.6	198.2	184.0	170.4	158.6	149.1	143.8	139.6
80°	159.2	145.6	139.0	131.3	123.7	114.8	107.1	103.5
82.5°	106.5	103.5	103.5	98.8	92.3	84.0	68.6	65.1
85°	68.6	68.0	69.3	67.4	62.7	53.8	44.4	42.0
87.5°	31.9	32.5	36.1	35.5	34.3	28.4	22.5	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)