

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: P200072

Luminaire Tested: **GPC-AF-02-LED-E1-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200072
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: GPC-AF-02-LED-E1-5NQ
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13108.1 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 113
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

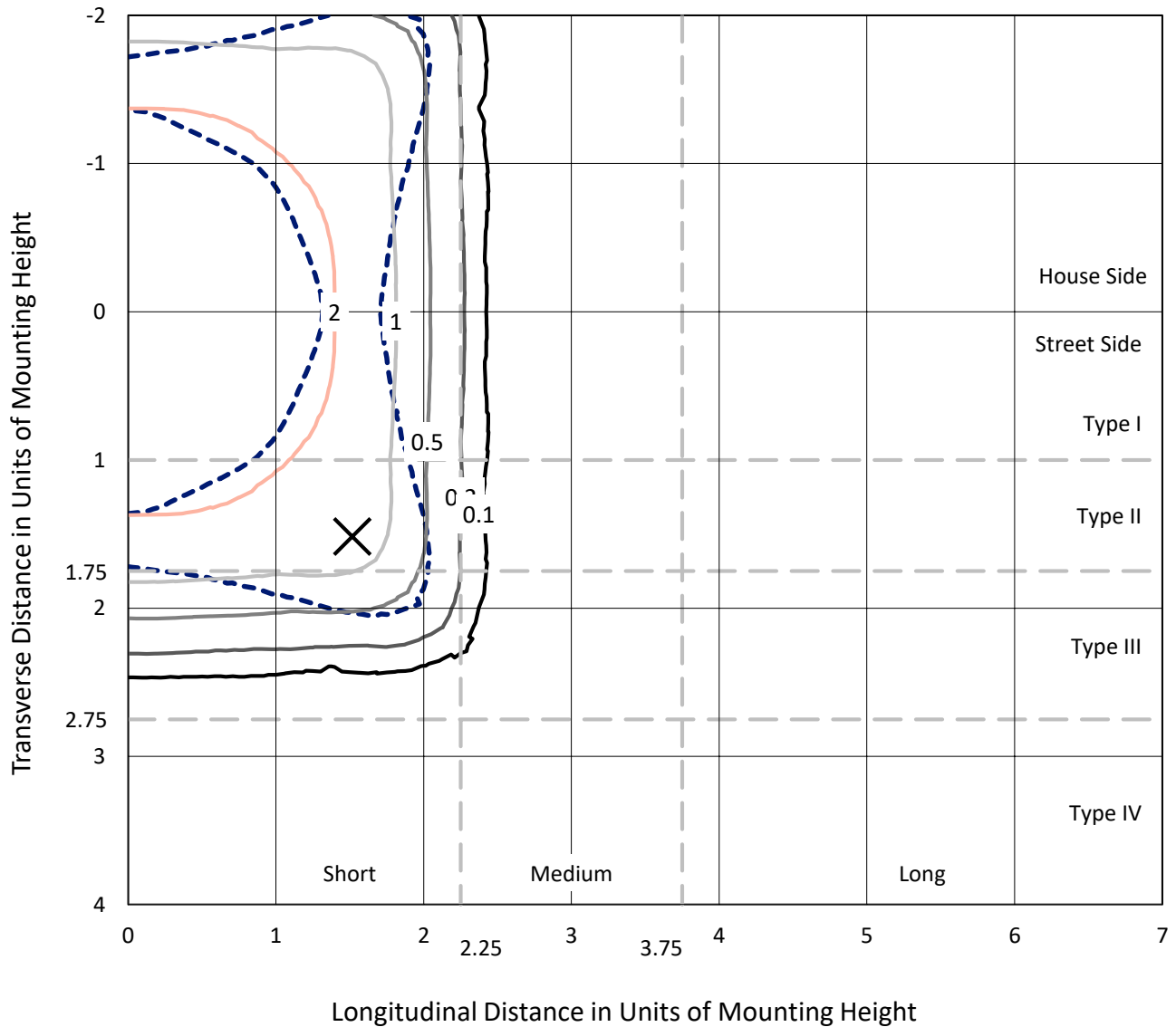


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

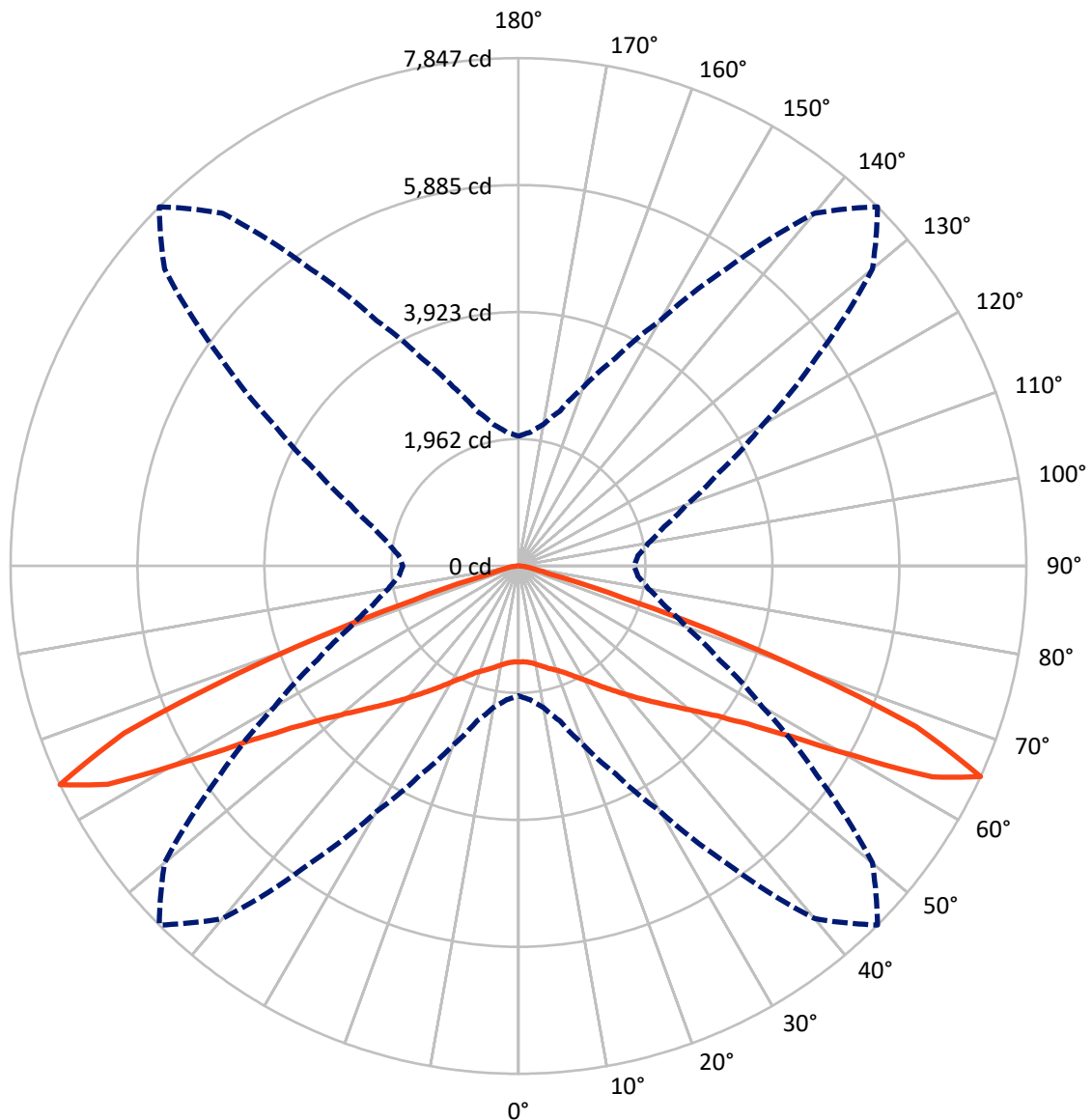


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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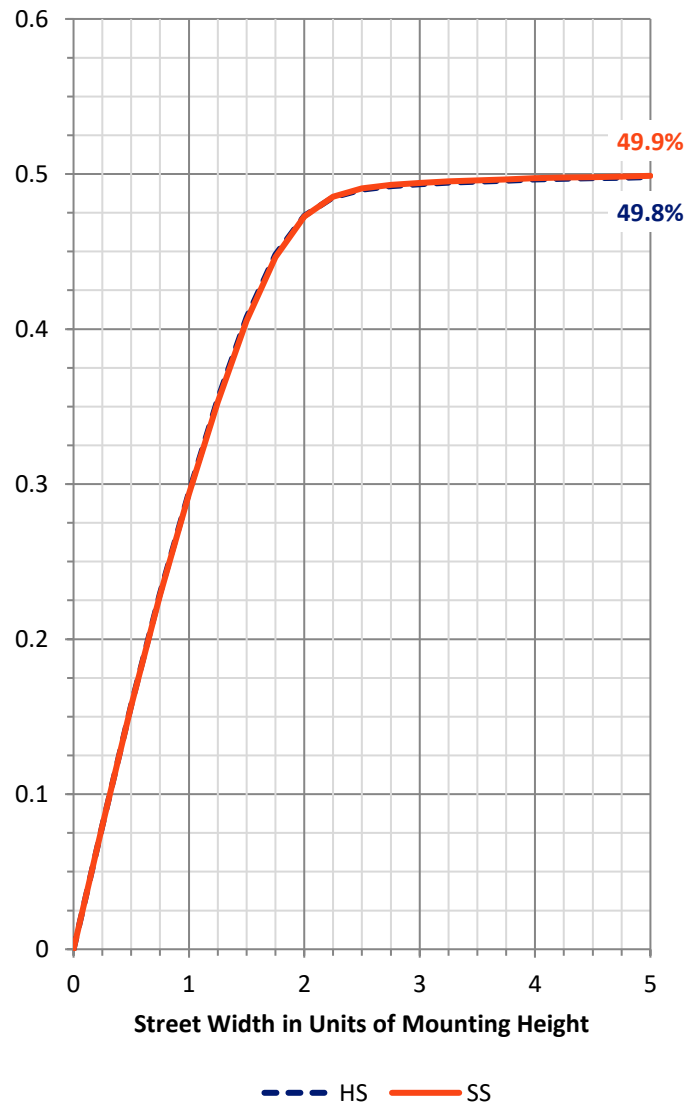
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6554.0	0.0	6554.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6554.0	0.0	6554.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13108.1	0.0	13108.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	1.1
10°-20°	463.6	3.5
20°-30°	866.9	6.6
30°-40°	1466.2	11.2
40°-50°	2397.4	18.3
50°-60°	3812.2	29.1
60°-70°	3446.0	26.3
70°-80°	436.1	3.3
80°-90°	75.0	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°	13108.1	100.0
0°-180°	13108.1	100.0



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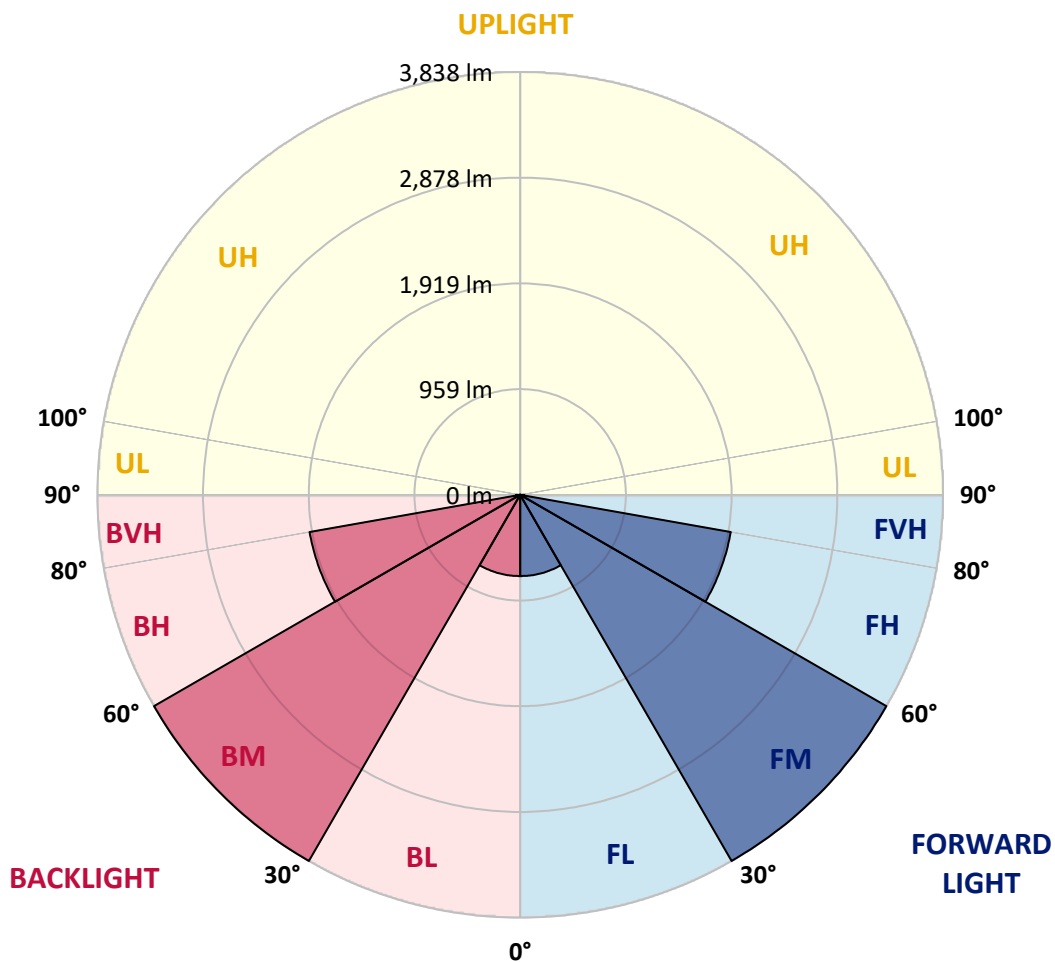
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	737.6	5.6			
FM	(30°-60°)	3837.9	29.3			
FH	(60°-80°)	1941.1	14.8			G2/5000
FVH	(80°-90°)	37.5	0.3			G1/100
BL	(0°-30°)	737.6	5.6	B2/1000		
BM	(30°-60°)	3837.9	29.3	B3/5000		
BH	(60°-80°)	1941.1	14.8	B3/2500		G2/5000
BVH	(80°-90°)	37.5	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°	1483.2	1483.2	1483.2	1483.2	1483.2	1483.2	1483.2	1483.2	1483.2	1483.2	1483.2
2.5°	1484.4	1485.6	1486.9	1485.6	1486.9	1485.0	1483.8	1485.6	1483.8	1481.9	1483.2
5°	1497.3	1497.9	1497.9	1496.1	1497.9	1496.7	1494.8	1497.3	1495.5	1493.6	1494.8
7.5°	1518.8	1521.2	1519.4	1517.5	1518.8	1517.5	1516.3	1516.9	1516.3	1514.5	1515.1
10°	1547.6	1549.5	1548.2	1547.6	1548.8	1548.2	1547.0	1546.4	1547.0	1545.2	1545.2
12.5°	1582.6	1582.0	1581.4	1582.0	1583.8	1583.8	1583.2	1583.8	1585.1	1585.7	1584.4
15°	1617.0	1618.2	1618.2	1618.2	1621.9	1625.0	1626.8	1628.0	1630.5	1631.1	1628.6
17.5°	1659.9	1659.9	1659.3	1659.9	1663.6	1668.5	1670.5	1672.9	1675.4	1677.2	1674.2
20°	1707.9	1709.1	1709.1	1710.4	1715.3	1720.8	1720.8	1722.0	1720.8	1722.0	1720.2
22.5°	1766.2	1769.9	1769.9	1770.5	1775.4	1782.2	1780.3	1782.2	1779.1	1781.6	1779.1
25°	1842.3	1847.9	1846.6	1846.6	1850.3	1854.6	1855.2	1858.9	1858.3	1861.4	1859.5
27.5°	1928.3	1936.9	1939.3	1938.7	1941.2	1945.4	1946.7	1951.0	1948.5	1951.0	1949.7
30°	2031.4	2035.1	2040.0	2041.8	2044.9	2049.2	2049.2	2049.8	2046.7	2050.4	2052.2
32.5°	2138.2	2144.9	2149.9	2161.0	2166.5	2169.6	2169.0	2170.2	2167.1	2172.0	2175.7
35°	2279.4	2284.4	2292.3	2300.9	2308.3	2307.7	2305.8	2306.4	2306.4	2310.7	2314.4
37.5°	2449.5	2450.7	2461.1	2473.4	2477.1	2473.4	2462.3	2459.9	2454.4	2459.9	2466.0
40°	2629.4	2633.7	2654.6	2662.5	2664.4	2657.6	2641.7	2632.5	2620.1	2626.9	2635.5
42.5°	2817.8	2826.4	2845.4	2859.6	2865.7	2861.4	2839.3	2825.2	2809.2	2812.9	2821.5
45°	3026.5	3036.9	3063.9	3077.4	3089.1	3082.4	3060.9	3039.4	3014.2	3016.1	3029.6
47.5°	3259.8	3270.3	3305.3	3328.0	3334.1	3332.9	3308.9	3279.5	3245.1	3243.9	3255.5
50°	3521.3	3531.7	3575.3	3610.4	3628.2	3626.4	3598.1	3556.3	3514.6	3515.2	3529.9
52.5°	3776.7	3789.6	3835.0	3895.2	3930.2	3955.3	3938.2	3898.9	3847.9	3849.2	3862.7
55°	4016.1	4037.6	4089.9	4171.5	4236.6	4307.1	4327.4	4326.2	4295.5	4304.1	4317.6
57.5°	4132.2	4164.1	4244.5	4373.4	4506.0	4649.7	4771.2	4862.1	4900.8	4959.1	4945.6
60°	3912.4	3963.3	4081.9	4271.5	4533.7	4833.2	5154.3	5468.0	5735.7	5937.6	5821.6
62.5°	3203.4	3269.7	3413.3	3656.4	4052.9	4532.5	5147.0	5888.5	6696.4	7183.9	6835.8
65°	2004.4	2073.1	2219.3	2479.5	2943.6	3539.7	4373.4	5602.5	7112.1	7846.9	7138.5
67.5°	781.5	819.0	898.2	1064.5	1413.2	1943.6	2780.4	4175.2	5980.7	6624.6	5869.5
70°	391.7	395.4	410.1	440.8	515.7	669.7	1019.1	1935.6	3429.9	4142.6	3306.5
72.5°	283.1	283.7	291.0	304.5	328.5	362.8	429.1	592.4	1115.4	1704.8	1045.5
75°	216.7	219.1	223.4	230.8	243.8	261.0	284.9	341.4	423.0	490.5	412.6
77.5°	166.9	171.9	174.9	181.7	189.7	201.3	208.1	229.6	267.1	281.2	276.9
80°	127.1	131.3	138.1	143.6	149.1	154.7	152.2	162.0	181.7	193.3	187.2
82.5°	81.0	85.9	105.6	110.5	112.9	116.6	112.3	112.9	121.5	128.9	121.5
85°	52.2	55.2	66.9	73.0	73.7	76.1	74.3	70.0	70.0	63.8	71.8
87.5°	23.9	24.6	30.1	35.6	36.8	33.1	32.5	31.3	25.2	23.9	25.8
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°	1483.2	1483.2	1483.2	1483.2	1483.2	1483.2	1483.2	1483.2
2.5°	1482.6	1483.8	1484.4	1486.2	1486.9	1486.9	1487.5	1488.7
5°	1494.2	1496.1	1496.7	1499.1	1499.7	1499.1	1500.4	1501.0
7.5°	1515.1	1518.2	1519.4	1521.8	1520.0	1522.5	1523.1	1523.1
10°	1545.8	1548.8	1549.5	1551.9	1550.7	1551.9	1551.9	1550.7
12.5°	1586.3	1586.9	1585.1	1586.9	1584.4	1585.7	1583.8	1582.6
15°	1631.1	1629.3	1625.0	1625.0	1621.3	1621.9	1621.3	1620.7
17.5°	1674.8	1671.1	1667.9	1666.7	1663.6	1663.0	1661.2	1661.2
20°	1722.6	1720.8	1719.0	1716.5	1713.4	1710.4	1709.8	1711.0
22.5°	1780.3	1779.7	1779.7	1778.5	1774.2	1771.1	1769.3	1769.3
25°	1857.7	1852.2	1852.2	1851.5	1849.7	1847.9	1844.2	1846.0
27.5°	1944.8	1941.8	1944.2	1943.6	1941.8	1941.8	1939.3	1939.3
30°	2052.2	2051.0	2054.7	2051.6	2045.5	2044.9	2042.4	2039.4
32.5°	2176.3	2175.1	2180.6	2176.9	2167.1	2161.6	2156.7	2154.2
35°	2314.4	2315.0	2321.8	2319.3	2308.3	2304.6	2296.0	2294.8
37.5°	2465.4	2475.2	2486.9	2489.4	2480.1	2477.7	2468.5	2463.6
40°	2642.9	2655.8	2673.6	2677.9	2668.1	2666.2	2653.3	2646.6
42.5°	2831.9	2854.0	2876.1	2879.8	2870.0	2860.2	2847.9	2843.0
45°	3043.1	3069.5	3098.3	3105.8	3090.9	3079.3	3063.3	3063.3
47.5°	3280.1	3313.2	3345.8	3366.0	3352.5	3340.2	3321.2	3308.9
50°	3560.0	3605.5	3647.8	3668.7	3647.2	3623.9	3590.8	3579.7
52.5°	3911.2	3960.3	3997.1	3986.0	3952.9	3920.4	3884.1	3869.4
55°	4359.3	4375.9	4375.9	4334.1	4267.9	4213.2	4156.1	4137.1
57.5°	4919.8	4855.9	4757.7	4633.1	4476.5	4340.3	4248.2	4204.6
60°	5578.6	5271.6	4924.7	4584.0	4304.1	4073.3	3936.3	3873.7
62.5°	6017.5	5214.5	4519.5	3972.5	3569.8	3291.8	3102.7	3029.0
65°	5624.0	4348.9	3418.2	2763.8	2324.9	2041.8	1854.6	1785.9
67.5°	4119.3	2725.1	1820.2	1304.6	955.8	762.5	685.7	653.8
70°	1849.1	959.5	588.1	459.2	396.0	363.5	349.3	344.4
72.5°	557.4	403.3	340.1	307.0	281.8	265.9	254.2	253.0
75°	336.4	280.0	248.7	228.9	213.0	200.1	194.0	192.1
77.5°	235.1	205.6	190.9	176.8	164.5	154.7	149.1	144.8
80°	165.1	151.0	144.2	136.3	128.3	119.1	111.1	107.4
82.5°	110.5	107.4	107.4	102.5	95.7	87.2	71.2	67.5
85°	71.2	70.6	71.8	70.0	65.1	55.9	46.0	43.6
87.5°	33.1	33.8	37.4	36.8	35.6	29.5	23.3	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)