

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: P651813

Luminaire Tested: **GALN-SA3A-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11385.4 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

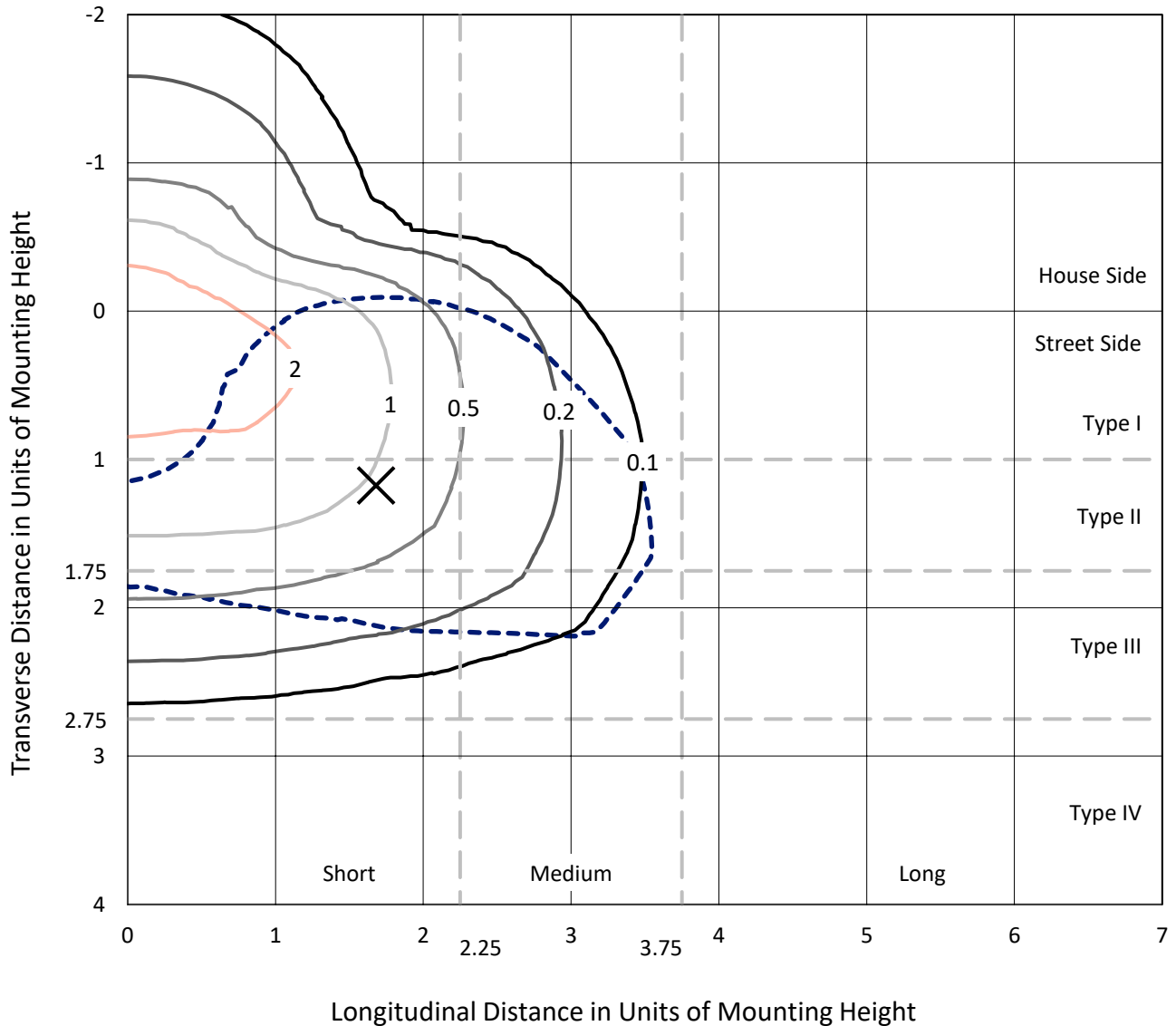
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

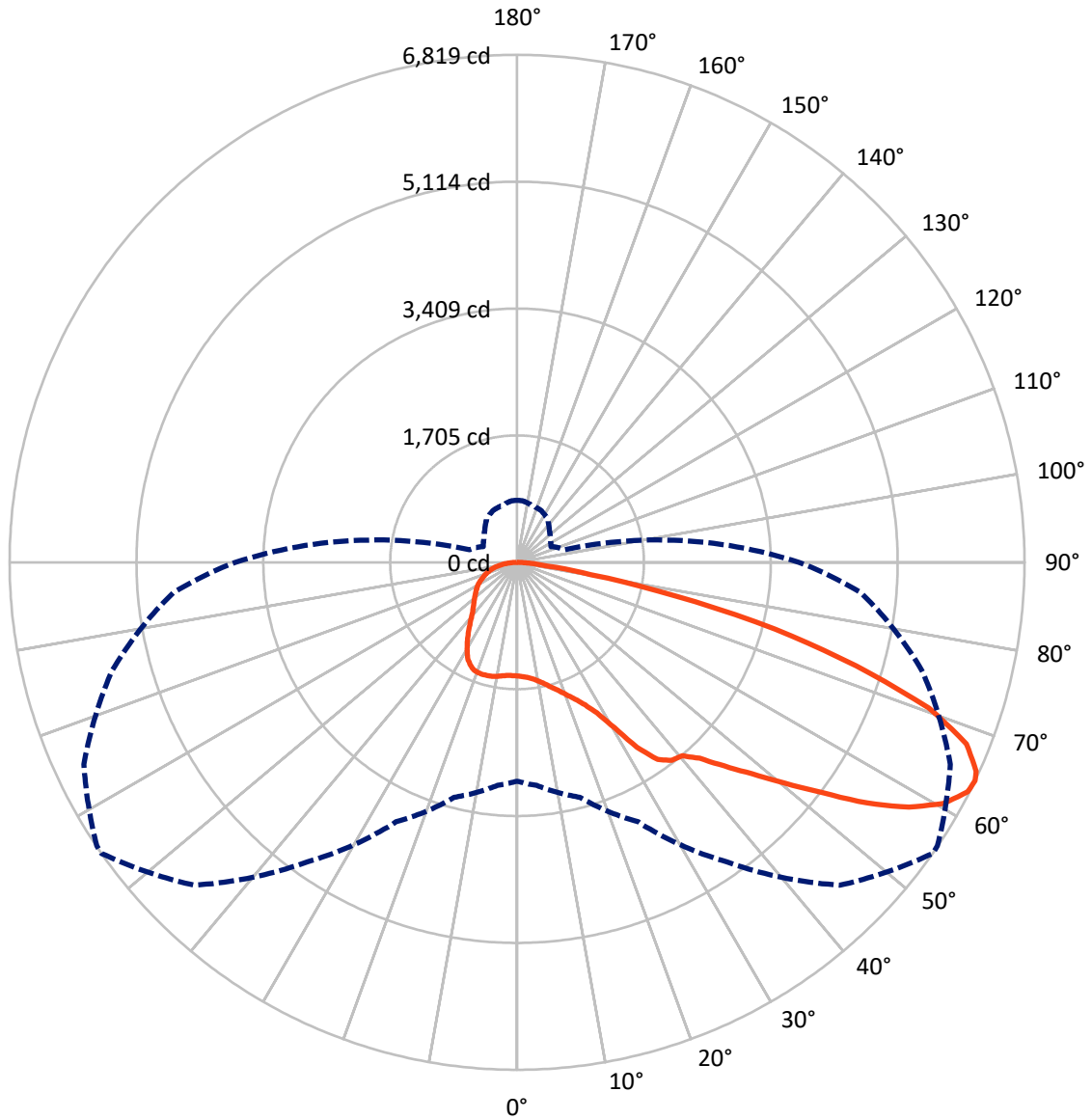
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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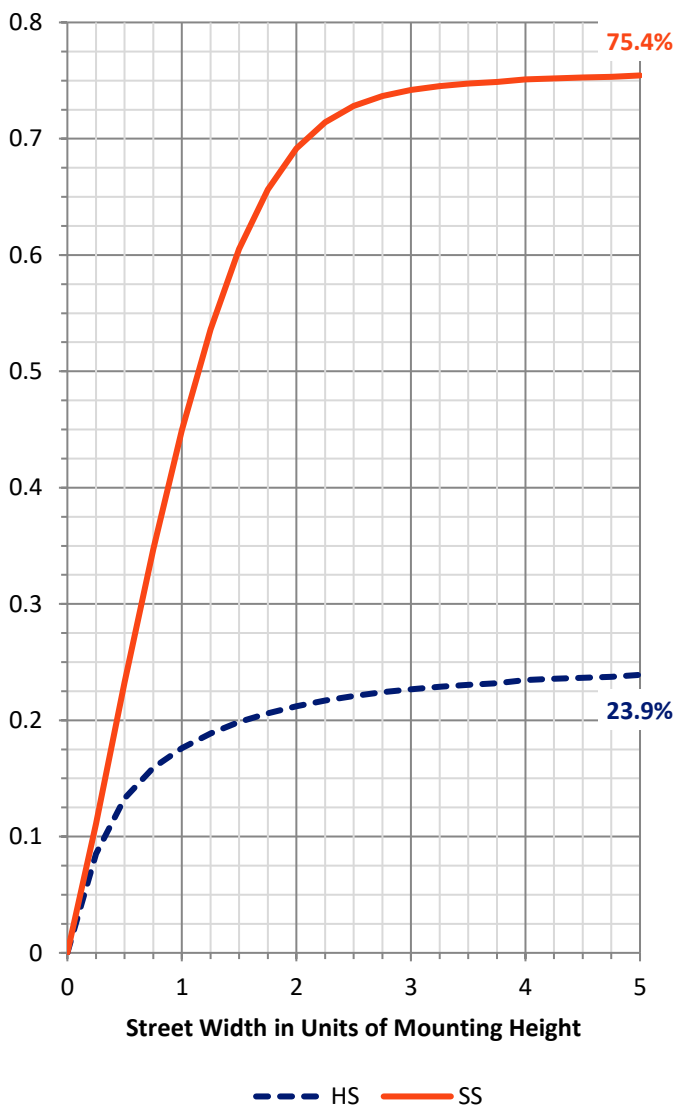
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2765.7	0.0	2765.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	8619.7	0.0	8619.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	11385.4	0.0	11385.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	1.3
10°-20°	468.9	4.1
20°-30°	834.7	7.3
30°-40°	1284.3	11.3
40°-50°	1820.5	16.0
50°-60°	2635.2	23.1
60°-70°	2727.1	24.0
70°-80°	1277.1	11.2
80°-90°	189.1	1.7
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°	11385.4	100.0
0°-180°	11385.4	100.0

Coefficient of Utilization

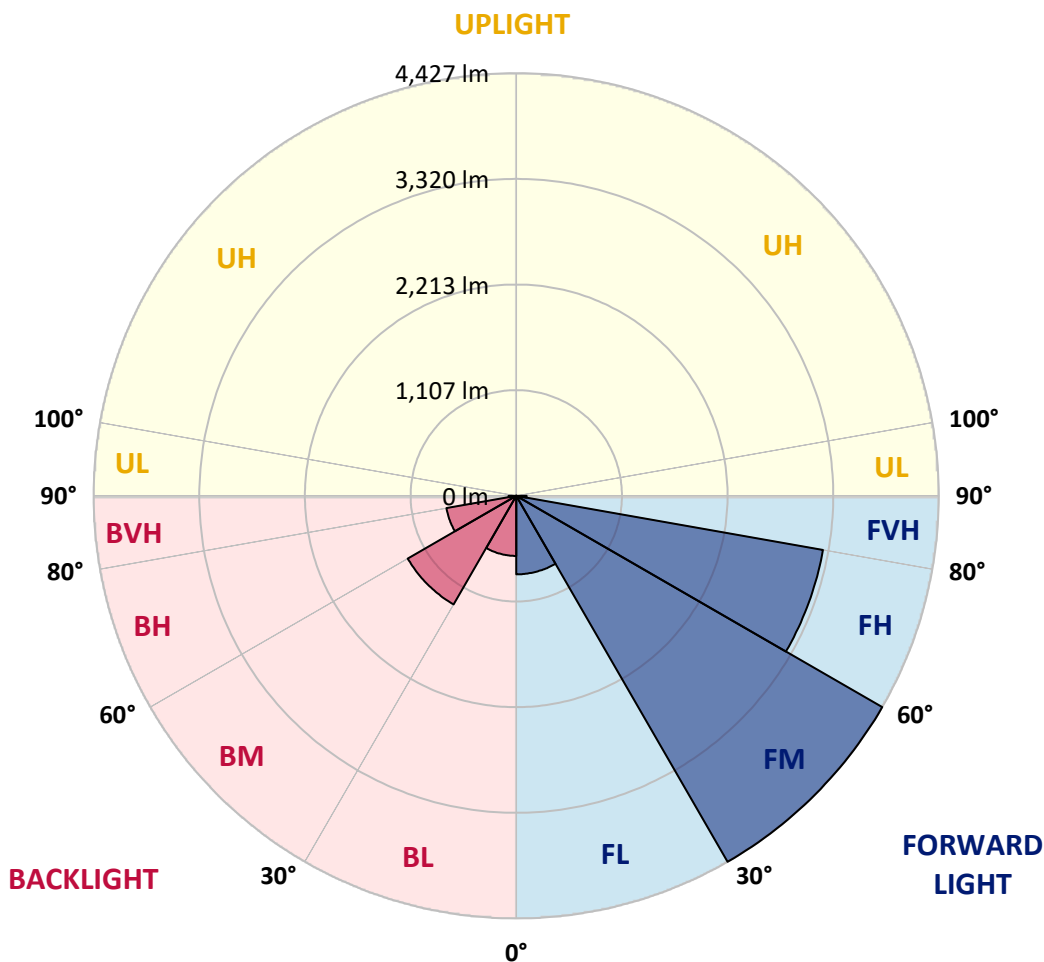


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.2	7.2			
FM (30°-60°)	4427.0	38.9			
FH (60°-80°)	3262.3	28.7			G2/5000
FVH (80°-90°)	108.3	1.0			G2/225
BL (0°-30°)	629.9	5.5	B2/1000		
BM (30°-60°)	1313.0	11.5	B2/2500		
BH (60°-80°)	742.0	6.5	B2/1000		G2/1000
BVH (80°-90°)	80.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6
2.5°	1544.7	1544.1	1546.0	1544.1	1545.3	1540.9	1539.0	1540.3	1538.4	1535.2	1529.5
5°	1563.8	1563.2	1563.8	1561.2	1562.5	1560.0	1555.5	1556.8	1553.6	1546.6	1538.4
7.5°	1596.1	1593.6	1593.6	1592.9	1590.4	1586.6	1583.4	1582.2	1579.0	1570.1	1557.4
10°	1638.0	1638.0	1638.7	1633.6	1636.8	1629.8	1626.6	1626.0	1615.1	1603.7	1586.0
12.5°	1693.2	1696.4	1694.5	1691.9	1690.7	1688.1	1677.4	1679.9	1667.9	1648.2	1626.6
15°	1761.7	1766.9	1763.7	1762.4	1759.2	1749.7	1745.2	1743.4	1727.5	1698.9	1670.4
17.5°	1852.6	1846.2	1843.6	1840.4	1827.2	1820.2	1812.5	1811.3	1797.3	1763.7	1719.3
20°	1931.9	1940.8	1935.6	1932.4	1919.2	1905.8	1900.2	1898.2	1886.2	1849.4	1778.3
22.5°	2026.4	2028.3	2030.3	2022.6	2016.3	2006.1	1995.9	1992.7	1988.4	1950.3	1863.3
25°	2127.3	2135.0	2128.6	2121.0	2113.3	2112.8	2122.3	2121.0	2119.1	2082.2	1976.3
27.5°	2291.7	2298.7	2300.6	2292.3	2263.1	2265.7	2287.3	2294.2	2323.4	2262.5	2121.6
30°	2384.3	2391.3	2407.2	2438.3	2484.7	2525.3	2577.2	2593.1	2621.1	2506.2	2294.2
32.5°	2441.5	2444.0	2472.5	2530.3	2669.3	2821.0	2962.5	2968.2	2986.0	2824.8	2452.3
35°	2531.6	2533.5	2556.3	2619.8	2782.9	3035.5	3254.4	3261.4	3246.8	2923.8	2525.9
37.5°	2642.7	2647.7	2662.4	2715.0	2909.9	3215.1	3375.7	3370.6	3241.1	3002.5	2656.0
40°	2804.5	2804.5	2787.3	2858.4	3043.7	3317.9	3418.2	3409.3	3375.0	3230.4	2854.0
42.5°	2947.3	2944.8	2985.4	3033.6	3211.3	3476.6	3596.5	3611.1	3667.6	3516.6	3079.3
45°	3133.2	3144.7	3167.5	3255.1	3496.2	3747.6	3902.4	3916.4	3996.3	3853.5	3342.6
47.5°	3321.1	3324.9	3396.6	3513.4	3849.1	4115.0	4241.9	4264.8	4337.8	4247.6	3626.3
50°	3454.3	3490.6	3605.4	3789.5	4212.7	4563.1	4662.1	4689.4	4818.2	4676.7	3957.0
52.5°	3595.3	3630.8	3771.0	4051.5	4630.4	5021.3	5143.1	5161.6	5295.4	5110.8	4295.2
55°	3715.9	3748.8	3908.1	4283.8	4962.9	5489.0	5709.9	5688.3	5752.4	5445.2	4556.1
57.5°	3735.5	3762.1	3962.7	4432.3	5212.9	5890.1	6206.8	6219.5	6145.3	5695.3	4771.2
60°	3583.2	3637.7	3868.2	4416.5	5325.3	6169.3	6577.5	6586.3	6375.6	5823.5	4856.9
62.5°	3313.5	3307.7	3586.4	4161.4	5167.9	6232.8	6795.8	6786.2	6465.8	5761.9	4773.8
64°	2940.9	3009.4	3269.6	3847.8	4914.0	6135.1	6818.6	6813.5	6422.5	5633.7	4632.2
65°	2713.7	2710.0	2967.0	3591.4	4661.4	5987.8	6778.0	6771.0	6332.5	5518.9	4522.5
67.5°	1959.1	1968.0	2221.9	2771.5	3789.5	5412.3	6513.4	6487.3	5977.1	5138.1	4104.8
70°	1186.8	1191.9	1391.1	1838.6	2720.0	4375.2	5871.1	5872.4	5433.2	4569.4	3493.7
72.5°	625.1	638.5	718.4	1044.0	1652.0	3069.7	4763.0	4875.9	4664.6	3899.9	2760.1
75°	347.8	349.7	406.2	514.7	842.8	1718.0	3580.1	3612.3	3693.0	3138.9	2041.0
77.5°	265.3	269.1	286.9	332.5	458.8	796.5	2166.7	2329.1	2602.6	2213.0	1164.5
80°	215.1	218.9	234.2	261.5	305.3	377.6	1006.5	1094.1	1393.0	982.5	454.4
82.5°	167.5	165.0	184.7	202.4	222.1	223.4	413.2	456.9	567.3	422.7	196.7
85°	124.4	124.4	140.3	136.4	143.4	130.8	182.2	201.2	227.2	179.6	91.4
87.5°	49.5	54.6	92.0	82.5	64.1	51.4	67.3	71.1	78.7	70.5	38.1
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°	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6	1527.6
2.5°	1530.1	1532.0	1527.6	1524.4	1523.1	1521.2	1519.4	1519.9	1522.5	1525.1	1524.4
5°	1537.8	1538.4	1530.8	1526.9	1524.4	1521.9	1521.9	1523.8	1528.9	1532.6	1532.6
7.5°	1556.8	1556.8	1546.0	1539.0	1535.2	1530.8	1529.5	1530.1	1533.9	1539.0	1539.6
10°	1586.6	1584.1	1570.1	1559.3	1552.3	1541.6	1532.0	1526.9	1528.9	1532.0	1532.0
12.5°	1622.8	1615.8	1598.1	1583.4	1566.3	1546.0	1526.3	1516.2	1515.6	1518.7	1517.4
15°	1661.5	1653.9	1629.1	1602.4	1572.7	1542.8	1519.4	1504.7	1493.3	1490.2	1497.1
17.5°	1706.6	1690.7	1656.4	1619.6	1575.2	1536.5	1499.7	1469.8	1449.5	1443.8	1445.7
20°	1761.1	1740.2	1693.9	1636.1	1573.3	1513.6	1456.5	1416.5	1383.5	1373.4	1374.6
22.5°	1836.7	1800.5	1732.5	1644.3	1557.4	1470.5	1391.1	1339.1	1299.1	1283.3	1292.8
25°	1922.4	1883.0	1769.4	1642.5	1516.2	1401.3	1313.7	1245.8	1209.6	1186.1	1191.2
27.5°	2040.4	1970.5	1808.7	1625.3	1457.1	1316.9	1215.3	1151.2	1118.3	1106.2	1111.9
30°	2191.4	2084.2	1851.3	1579.0	1363.8	1210.3	1116.3	1074.5	1054.8	1039.6	1044.6
32.5°	2300.6	2164.1	1860.8	1500.9	1262.9	1113.1	1049.1	1017.9	996.4	981.8	985.0
35°	2378.6	2232.0	1856.3	1405.1	1157.6	1033.2	995.7	970.3	935.4	903.7	898.0
37.5°	2483.4	2317.0	1824.0	1300.4	1053.5	979.3	952.6	905.7	855.5	813.0	811.1
40°	2643.9	2416.7	1754.7	1177.2	964.6	939.3	906.9	846.0	792.1	757.7	755.2
42.5°	2809.5	2508.7	1660.9	1047.8	891.7	897.3	858.1	797.8	764.7	742.5	740.0
45°	3012.0	2608.4	1559.3	935.4	837.7	858.1	815.5	780.6	760.9	746.3	742.5
47.5°	3231.0	2710.5	1445.1	834.5	792.1	821.8	797.8	781.9	771.1	760.9	756.5
50°	3467.0	2824.8	1337.9	753.3	750.8	784.4	795.8	790.1	783.8	780.6	776.8
52.5°	3726.0	2941.6	1247.7	696.2	714.6	757.7	796.5	800.9	800.9	799.0	796.5
55°	3901.1	3022.8	1156.3	649.8	677.8	736.2	795.2	812.3	818.7	816.2	813.6
57.5°	4030.6	3067.2	1041.4	609.9	646.7	715.3	788.2	813.6	820.0	823.2	821.8
60°	4057.2	3026.0	891.0	568.0	613.1	684.7	762.9	794.6	802.8	822.5	824.4
62.5°	3937.3	2899.0	741.3	526.7	571.8	638.5	728.6	773.0	789.5	820.0	823.2
64°	3790.1	2756.9	658.1	500.7	545.1	612.4	711.4	767.2	788.9	829.5	832.0
65°	3682.2	2653.4	606.1	484.2	528.1	595.3	701.9	769.2	794.6	844.1	847.9
67.5°	3284.9	2297.4	501.4	445.5	487.4	566.1	703.8	785.1	793.3	849.7	849.2
70°	2718.2	1829.0	420.2	410.0	448.1	542.6	696.2	759.7	760.3	797.8	788.9
72.5°	2035.3	1351.8	364.3	373.2	404.3	486.8	657.5	725.4	714.6	719.6	710.8
75°	1398.1	894.2	313.5	333.8	358.6	430.3	602.9	658.8	641.6	635.3	628.9
77.5°	746.3	494.4	260.9	295.1	311.6	371.9	526.1	580.0	562.3	537.6	529.3
80°	302.1	232.9	210.1	244.3	253.9	299.6	437.9	471.5	458.2	415.0	401.1
82.5°	151.7	139.6	165.0	192.3	192.9	213.9	325.6	357.3	327.5	274.8	262.7
85°	79.3	81.8	113.6	135.1	119.3	115.5	195.4	216.4	198.6	172.7	155.5
87.5°	28.6	33.0	59.6	59.0	41.9	22.2	43.1	20.9	11.4	7.0	8.9
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)