

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: P646808

Luminaire Tested: **GALN-SA2C-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646808
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-SA2C-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10977.7 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

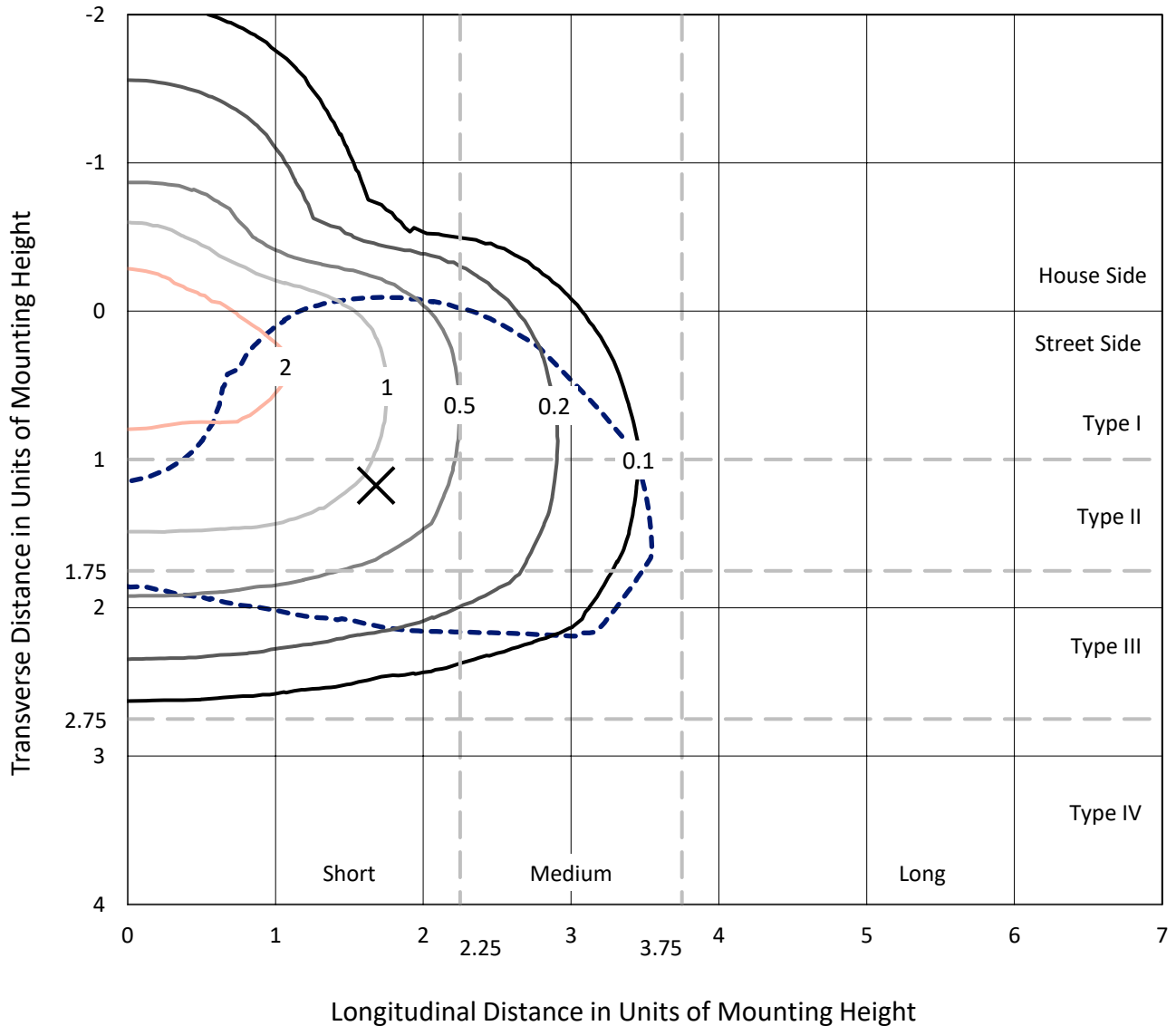
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

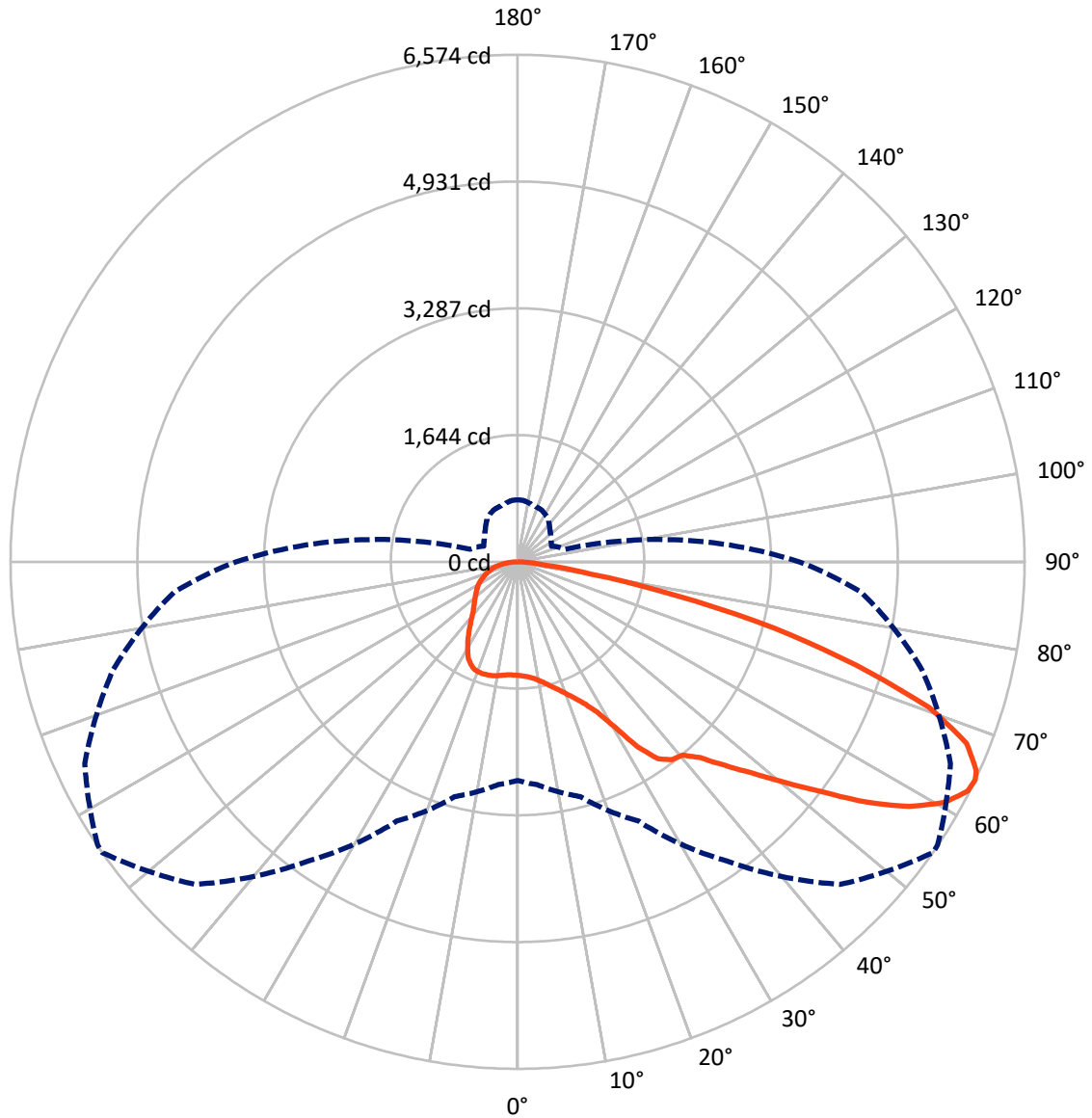
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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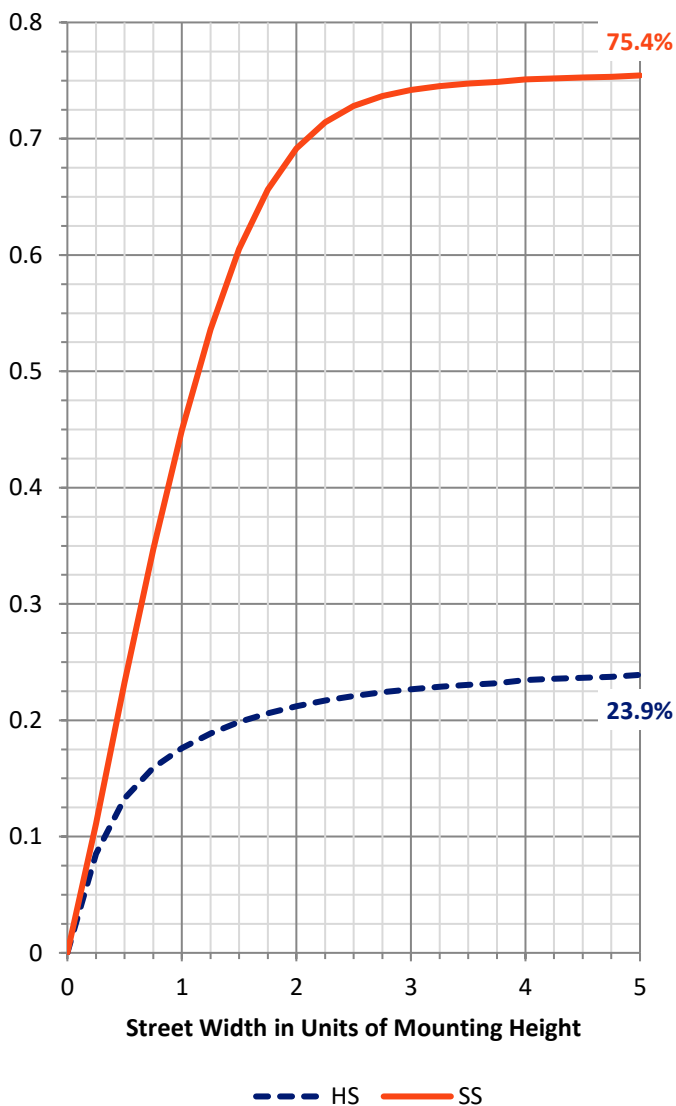
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2666.7	0.0	2666.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	8311.0	0.0	8311.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	10977.7	0.0	10977.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	1.3
10°-20°	452.1	4.1
20°-30°	804.8	7.3
30°-40°	1238.3	11.3
40°-50°	1755.3	16.0
50°-60°	2540.8	23.1
60°-70°	2629.5	24.0
70°-80°	1231.4	11.2
80°-90°	182.3	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°	10977.7	100.0
0°-180°	10977.7	100.0

Coefficient of Utilization

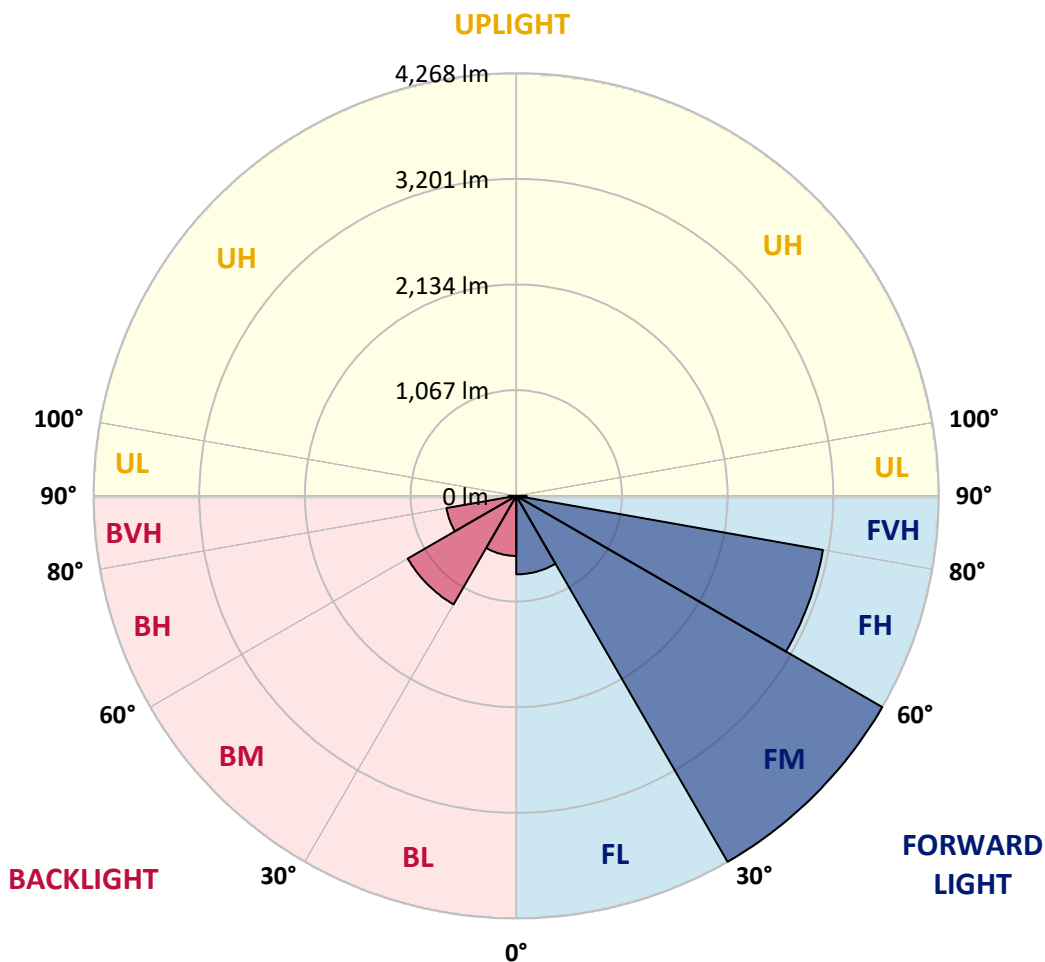


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.8	7.2			
FM (30°-60°)	4268.4	38.9			
FH (60°-80°)	3145.4	28.7			G2/5000
FVH (80°-90°)	104.4	1.0			G2/225
BL (0°-30°)	607.4	5.5	B2/1000		
BM (30°-60°)	1266.0	11.5	B2/2500		
BH (60°-80°)	715.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	77.9	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°	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9
2.5°	1489.4	1488.8	1490.6	1488.8	1490.0	1485.7	1483.9	1485.1	1483.2	1480.2	1474.7
5°	1507.7	1507.1	1507.7	1505.3	1506.5	1504.1	1499.8	1501.0	1498.0	1491.2	1483.2
7.5°	1539.0	1536.5	1536.5	1535.9	1533.4	1529.7	1526.7	1525.5	1522.5	1513.9	1501.6
10°	1579.3	1579.3	1579.9	1575.1	1578.1	1571.4	1568.3	1567.7	1557.3	1546.3	1529.2
12.5°	1632.6	1635.6	1633.8	1631.4	1630.1	1627.7	1617.3	1619.7	1608.1	1589.1	1568.3
15°	1698.6	1703.6	1700.5	1699.3	1696.2	1687.1	1682.7	1680.9	1665.6	1638.1	1610.6
17.5°	1786.2	1780.1	1777.6	1774.5	1761.7	1754.9	1747.7	1746.4	1732.9	1700.5	1657.7
20°	1862.7	1871.2	1866.4	1863.3	1850.4	1837.5	1832.1	1830.3	1818.6	1783.1	1714.6
22.5°	1953.8	1955.7	1957.5	1950.1	1944.0	1934.2	1924.5	1921.4	1917.1	1880.4	1796.6
25°	2051.1	2058.5	2052.3	2045.0	2037.7	2037.1	2046.2	2045.0	2043.2	2007.7	1905.5
27.5°	2209.6	2216.4	2218.2	2210.3	2182.1	2184.5	2205.3	2212.1	2240.2	2181.4	2045.6
30°	2299.0	2305.7	2321.0	2351.0	2395.7	2434.8	2485.0	2500.3	2527.2	2416.4	2212.1
32.5°	2354.0	2356.4	2384.0	2439.7	2573.7	2719.9	2856.4	2861.9	2879.0	2723.6	2364.4
35°	2440.9	2442.7	2464.8	2526.0	2683.3	2926.8	3137.9	3144.6	3130.5	2819.1	2435.4
37.5°	2548.0	2552.9	2567.0	2617.7	2805.6	3100.0	3254.8	3249.8	3125.0	2895.0	2560.9
40°	2704.0	2704.0	2687.5	2756.1	2934.8	3199.1	3295.7	3287.2	3254.1	3114.6	2751.8
42.5°	2841.7	2839.2	2878.5	2925.0	3096.3	3352.0	3467.7	3481.8	3536.3	3390.6	2969.0
45°	3021.0	3032.0	3054.0	3138.5	3371.0	3613.3	3762.6	3776.1	3853.2	3715.5	3222.9
47.5°	3202.2	3205.8	3275.0	3387.6	3711.3	3967.6	4090.0	4112.1	4182.4	4095.6	3496.5
50°	3330.6	3365.5	3476.3	3653.7	4061.9	4399.7	4495.1	4521.4	4645.6	4509.1	3815.2
52.5°	3466.5	3500.7	3635.9	3906.5	4464.5	4841.4	4958.9	4976.7	5105.8	4927.7	4141.4
55°	3582.8	3614.6	3768.2	4130.4	4785.1	5292.5	5505.4	5484.5	5546.4	5250.2	4392.9
57.5°	3601.7	3627.4	3820.8	4273.6	5026.2	5679.2	5984.5	5996.8	5925.1	5491.3	4600.4
60°	3454.8	3507.4	3729.6	4258.3	5134.5	5948.4	6341.8	6350.4	6147.3	5614.9	4683.0
62.5°	3194.8	3189.3	3457.9	4012.3	4982.8	6009.6	6552.4	6543.1	6234.2	5555.5	4602.8
64°	2835.6	2901.7	3152.6	3710.0	4738.0	5915.3	6574.4	6569.4	6192.5	5431.9	4466.3
65°	2616.6	2612.9	2860.7	3462.8	4494.5	5773.4	6535.2	6528.5	6105.7	5321.2	4360.4
67.5°	1889.0	1897.5	2142.3	2672.2	3653.7	5218.4	6280.1	6255.0	5763.0	4954.0	3957.8
70°	1144.3	1149.1	1341.3	1772.7	2622.7	4218.5	5660.8	5662.0	5238.6	4405.8	3368.5
72.5°	602.8	615.6	692.7	1006.6	1592.8	2959.8	4592.4	4701.3	4497.6	3760.2	2661.2
75°	335.4	337.2	391.7	496.3	812.6	1656.4	3451.8	3483.0	3560.7	3026.5	1967.9
77.5°	255.8	259.5	276.6	320.6	442.4	768.0	2089.0	2245.7	2509.4	2133.8	1122.8
80°	207.4	211.1	225.8	252.1	294.3	364.1	970.5	1054.9	1343.2	947.3	438.2
82.5°	161.5	159.1	178.1	195.2	214.2	215.4	398.4	440.6	547.1	407.6	189.7
85°	120.0	120.0	135.2	131.5	138.3	126.1	175.6	193.9	219.1	173.2	88.1
87.5°	47.8	52.6	88.7	79.6	61.8	49.6	64.8	68.5	75.9	67.9	36.7
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°	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9	1472.9
2.5°	1475.3	1477.1	1472.9	1469.8	1468.6	1466.7	1464.9	1465.5	1468.0	1470.4	1469.8
5°	1482.7	1483.2	1476.0	1472.3	1469.8	1467.3	1467.3	1469.2	1474.1	1477.8	1477.8
7.5°	1501.0	1501.0	1490.6	1483.9	1480.2	1476.0	1474.7	1475.3	1479.0	1483.9	1484.5
10°	1529.7	1527.3	1513.9	1503.4	1496.7	1486.4	1477.1	1472.3	1474.1	1477.1	1477.1
12.5°	1564.7	1557.9	1540.8	1526.7	1510.2	1490.6	1471.6	1461.9	1461.2	1464.3	1463.1
15°	1602.0	1594.7	1570.8	1545.1	1516.3	1487.5	1464.9	1450.8	1439.9	1436.8	1443.5
17.5°	1645.4	1630.1	1597.1	1561.6	1518.8	1481.4	1446.0	1417.2	1397.6	1392.1	1393.9
20°	1698.1	1677.9	1633.2	1577.5	1516.9	1459.4	1404.3	1365.8	1334.0	1324.2	1325.4
22.5°	1770.8	1736.0	1670.5	1585.5	1501.6	1417.8	1341.3	1291.2	1252.6	1237.3	1246.5
25°	1853.5	1815.5	1706.0	1583.6	1461.9	1351.1	1266.7	1201.2	1166.3	1143.6	1148.6
27.5°	1967.3	1899.9	1744.0	1567.1	1404.9	1269.7	1171.8	1110.0	1078.2	1066.5	1072.1
30°	2112.9	2009.5	1784.9	1522.5	1315.0	1166.9	1076.4	1036.0	1017.0	1002.3	1007.2
32.5°	2218.2	2086.6	1794.1	1447.1	1217.7	1073.3	1011.5	981.5	960.7	946.6	949.7
35°	2293.4	2152.1	1789.9	1354.7	1116.1	996.2	960.1	935.6	901.9	871.4	865.8
37.5°	2394.4	2234.1	1758.6	1253.8	1015.8	944.1	918.5	873.2	824.9	783.9	782.1
40°	2549.2	2330.1	1691.9	1135.1	930.1	905.6	874.5	815.7	763.7	730.6	728.2
42.5°	2708.9	2418.9	1601.4	1010.2	859.7	865.2	827.3	769.1	737.4	716.0	713.5
45°	2904.1	2514.9	1503.4	901.9	807.7	827.3	786.3	752.6	733.7	719.6	716.0
47.5°	3115.2	2613.5	1393.3	804.7	763.7	792.4	769.1	753.9	743.5	733.7	729.4
50°	3342.9	2723.6	1289.9	726.3	723.9	756.3	767.3	761.9	755.7	752.6	749.0
52.5°	3592.6	2836.2	1203.0	671.3	689.0	730.6	768.0	772.2	772.2	770.4	768.0
55°	3761.5	2914.6	1114.9	626.6	653.5	709.8	766.7	783.2	789.3	786.9	784.5
57.5°	3886.3	2957.4	1004.1	588.0	623.5	689.6	760.0	784.5	790.6	793.6	792.4
60°	3911.9	2917.6	859.1	547.6	591.1	660.2	735.6	766.1	774.1	793.0	794.9
62.5°	3796.3	2795.2	714.7	507.9	551.3	615.6	702.5	745.3	761.2	790.6	793.6
64°	3654.3	2658.1	634.5	482.8	525.6	590.5	686.0	739.8	760.6	799.8	802.2
65°	3550.3	2558.4	584.4	466.9	509.1	573.9	676.7	741.7	766.1	813.9	817.5
67.5°	3167.2	2215.1	483.4	429.6	470.0	545.8	678.6	756.9	764.9	819.3	818.7
70°	2620.8	1763.6	405.1	395.3	432.0	523.2	671.3	732.5	733.0	769.1	760.6
72.5°	1962.4	1303.4	351.3	359.8	389.8	469.3	633.9	699.4	689.0	693.9	685.4
75°	1348.0	862.2	302.3	321.9	345.7	414.9	581.3	635.2	618.6	612.5	606.4
77.5°	719.6	476.7	251.5	284.5	300.4	358.6	507.3	559.3	542.1	518.3	510.4
80°	291.3	224.6	202.6	235.6	244.8	288.8	422.2	454.7	441.8	400.2	386.7
82.5°	146.3	134.6	159.1	185.4	186.0	206.2	313.9	344.5	315.8	265.0	253.3
85°	76.5	78.9	109.5	130.4	115.0	111.3	188.5	208.7	191.5	166.5	149.9
87.5°	27.6	31.8	57.6	56.9	40.4	21.5	41.6	20.2	11.0	6.7	8.5
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)