

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: P650768

Luminaire Tested: **GALN-SA2C-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650768
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-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11790.8 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

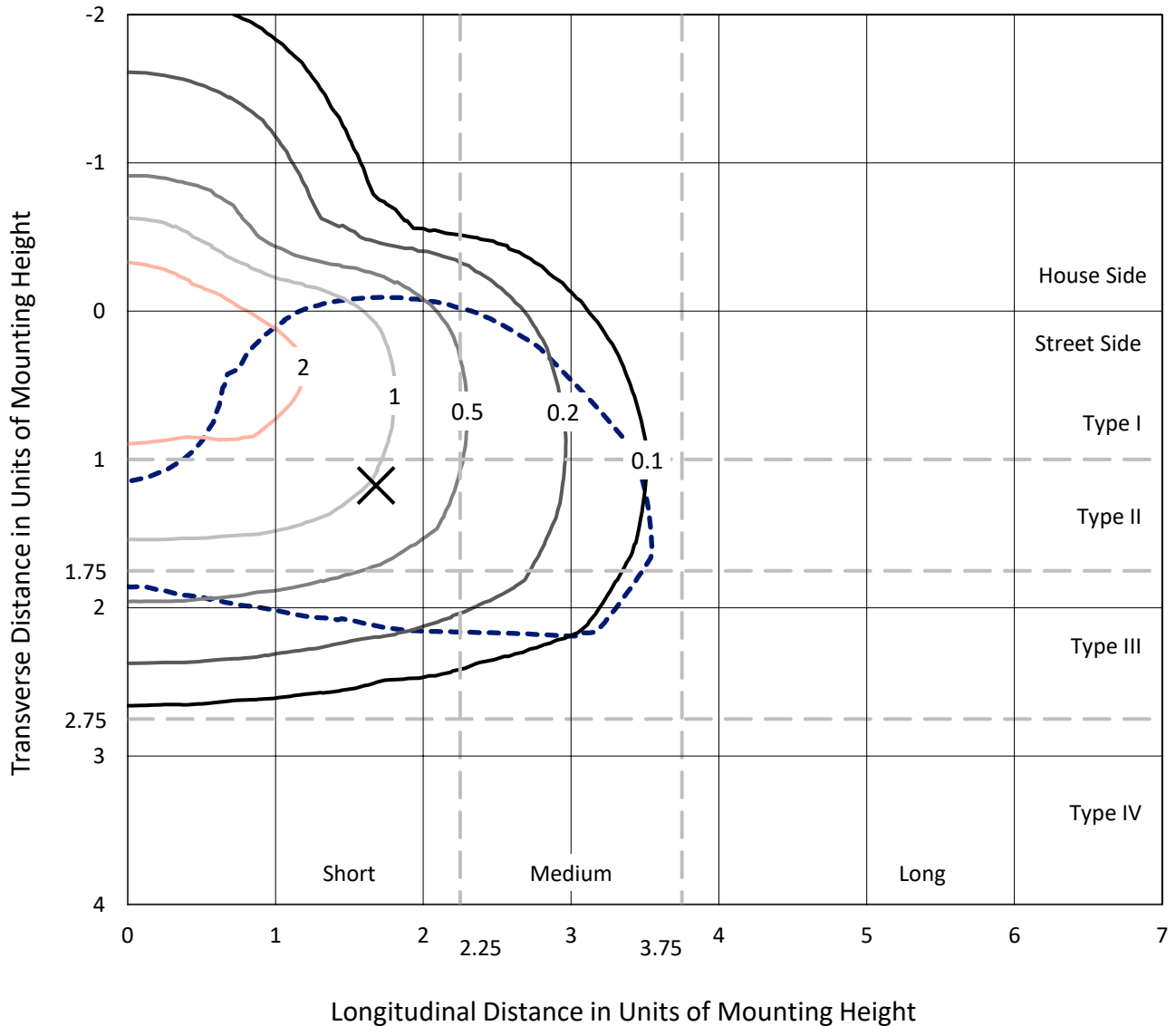
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650768
 CATALOG NUMBER: GALN-SA2C-840-U-T3

Iso-Footcandle Lines of Horizontal Illumination

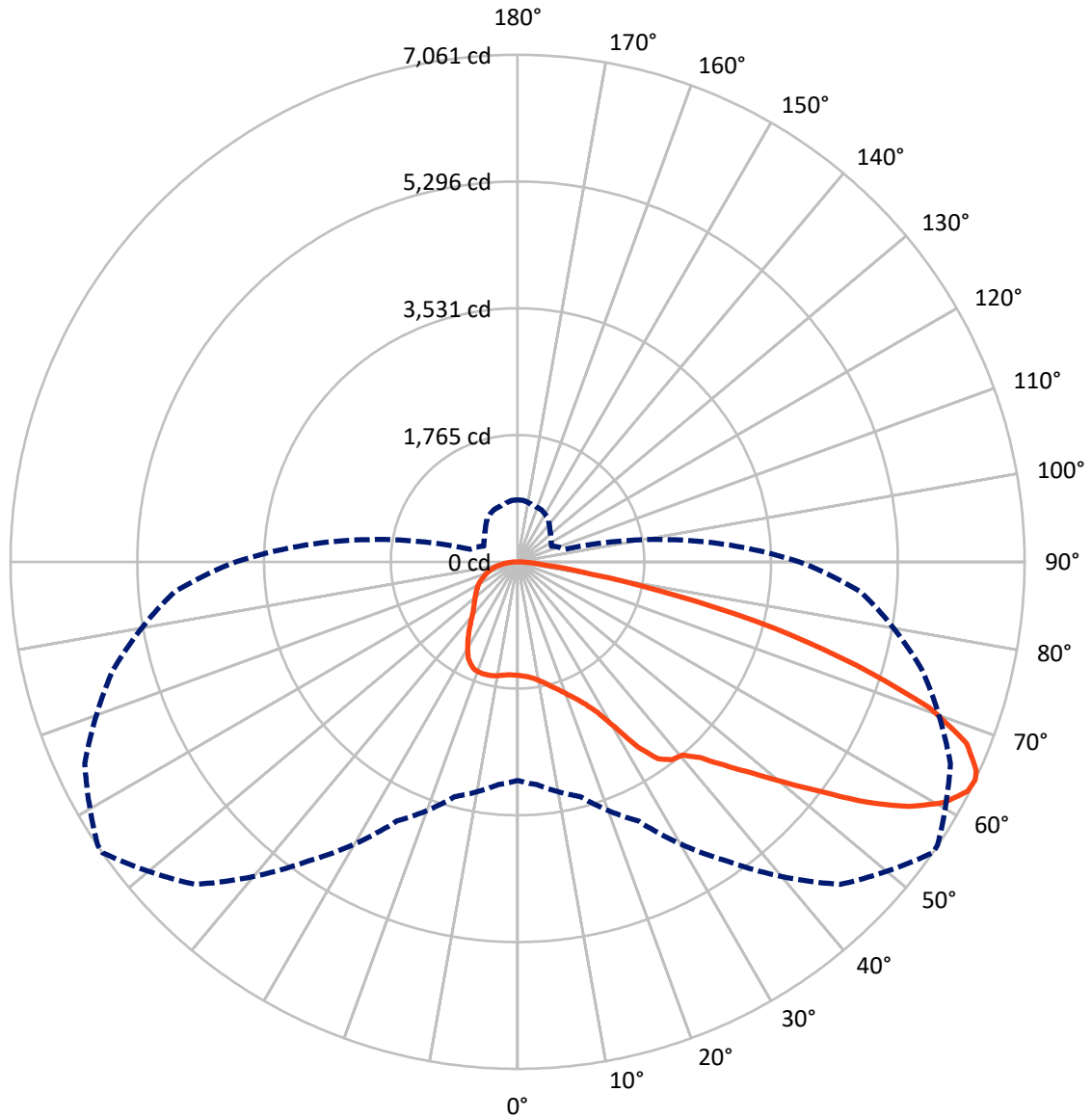
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

REPORT NUMBER: P650768
CATALOG NUMBER: GALN-SA2C-840-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650768
 CATALOG NUMBER: GALN-SA2C-840-U-T3

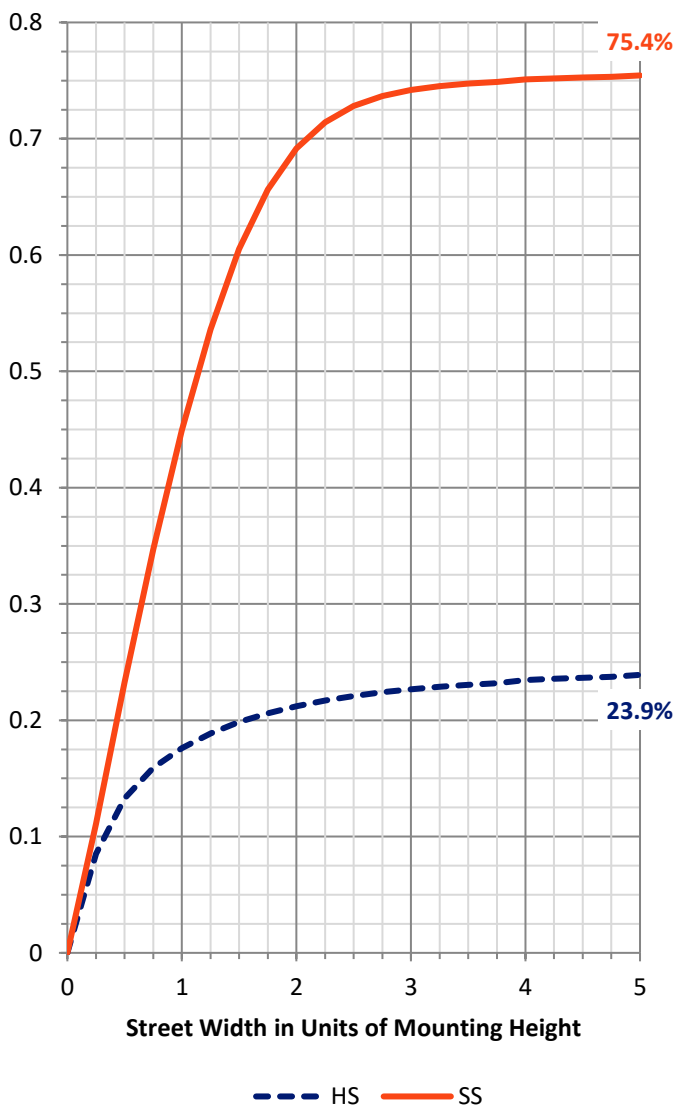
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2864.2	0.0	2864.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	8926.6	0.0	8926.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	11790.8	0.0	11790.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	1.3
10°-20°	485.5	4.1
20°-30°	864.4	7.3
30°-40°	1330.0	11.3
40°-50°	1885.4	16.0
50°-60°	2729.0	23.1
60°-70°	2824.2	24.0
70°-80°	1322.6	11.2
80°-90°	195.8	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°	11790.8	100.0
0°-180°	11790.8	100.0

Coefficient of Utilization

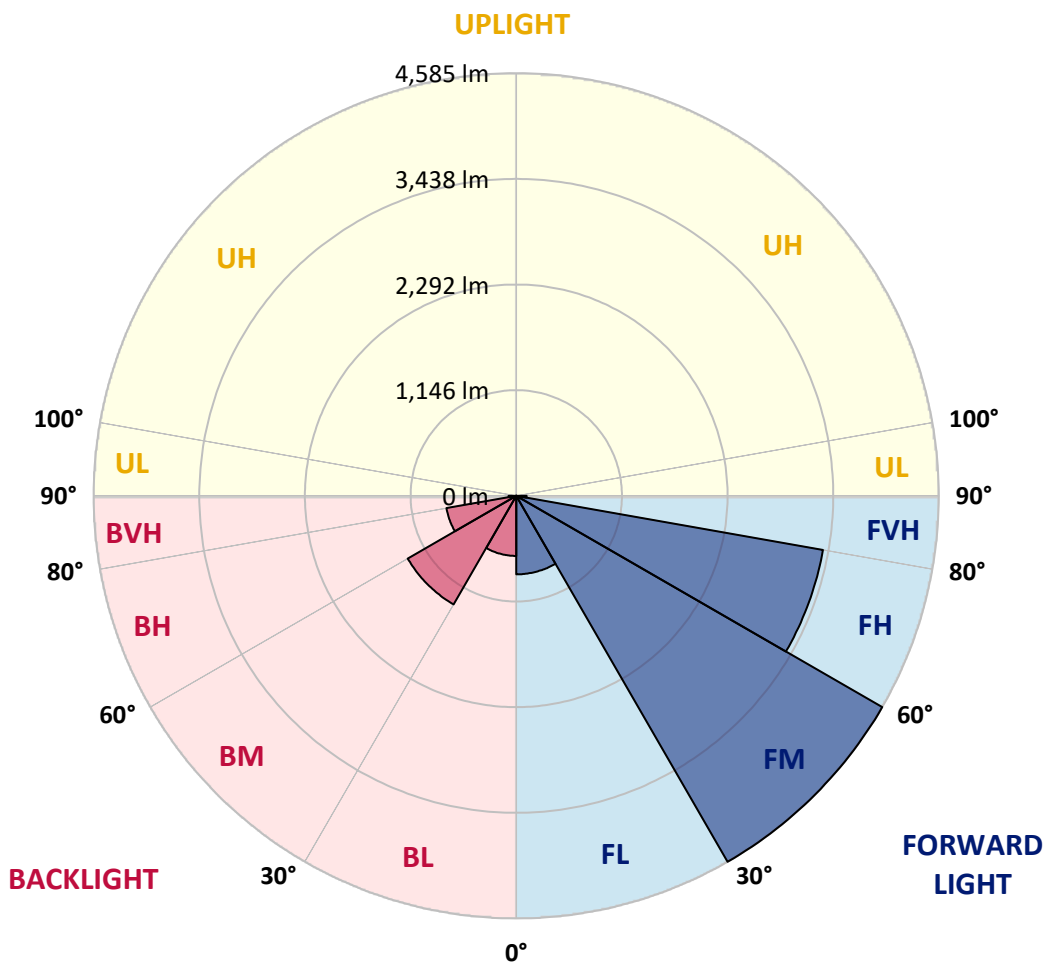


REPORT NUMBER: P650768
 CATALOG NUMBER: GALN-SA2C-840-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	851.5	7.2			
FM (30°-60°)	4584.6	38.9			
FH (60°-80°)	3378.4	28.7			G2/5000
FVH (80°-90°)	112.1	1.0			G2/225
BL (0°-30°)	652.4	5.5	B2/1000		
BM (30°-60°)	1359.8	11.5	B2/2500		
BH (60°-80°)	768.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	83.7	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





REPORT NUMBER: P650768
 CATALOG NUMBER: GALN-SA2C-840-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0
2.5°	1599.8	1599.1	1601.0	1599.1	1600.3	1595.8	1593.8	1595.1	1593.1	1589.8	1583.9
5°	1619.4	1618.8	1619.4	1616.8	1618.1	1615.5	1610.9	1612.2	1608.9	1601.7	1593.1
7.5°	1653.0	1650.3	1650.3	1649.7	1647.0	1643.1	1639.8	1638.5	1635.2	1626.0	1612.9
10°	1696.3	1696.3	1697.0	1691.8	1695.0	1687.8	1684.5	1683.9	1672.7	1660.8	1642.5
12.5°	1753.5	1756.8	1754.8	1752.2	1750.9	1748.3	1737.1	1739.7	1727.2	1706.8	1684.5
15°	1824.5	1829.8	1826.5	1825.1	1821.9	1812.0	1807.4	1805.5	1789.0	1759.5	1729.9
17.5°	1918.5	1911.9	1909.2	1906.0	1892.2	1884.9	1877.1	1875.8	1861.3	1826.5	1780.5
20°	2000.7	2009.8	2004.6	2001.3	1987.5	1973.7	1967.8	1965.8	1953.3	1915.2	1841.6
22.5°	2098.5	2100.6	2102.5	2094.6	2088.0	2077.5	2067.0	2063.7	2059.1	2019.7	1929.7
25°	2203.1	2211.0	2204.3	2196.5	2188.6	2187.9	2197.8	2196.5	2194.5	2156.4	2046.7
27.5°	2373.3	2380.5	2382.5	2374.0	2343.7	2346.3	2368.7	2375.9	2406.2	2343.0	2197.1
30°	2469.3	2476.5	2492.9	2525.1	2573.1	2615.2	2669.1	2685.5	2714.4	2595.4	2375.9
32.5°	2528.4	2531.0	2560.6	2620.4	2764.4	2921.4	3068.0	3073.9	3092.3	2925.3	2539.6
35°	2621.7	2623.7	2647.4	2713.1	2882.0	3143.6	3370.3	3377.5	3362.4	3027.9	2615.8
37.5°	2736.7	2742.0	2757.1	2811.6	3013.5	3329.6	3495.9	3490.6	3356.5	3109.4	2750.6
40°	2904.3	2904.3	2886.6	2960.2	3152.2	3436.1	3539.9	3530.7	3495.2	3345.3	2955.6
42.5°	3052.2	3049.6	3091.7	3141.6	3325.7	3600.3	3724.5	3739.7	3798.2	3641.8	3188.9
45°	3244.7	3256.6	3280.2	3371.0	3620.8	3881.0	4041.3	4055.8	4138.6	3990.7	3461.6
47.5°	3439.4	3443.3	3517.6	3638.5	3986.2	4261.5	4393.0	4416.7	4492.2	4398.9	3755.5
50°	3577.4	3614.8	3733.8	3924.4	4362.8	4725.6	4828.1	4856.4	4989.7	4843.2	4097.9
52.5°	3723.3	3760.0	3905.3	4195.8	4795.2	5200.1	5326.2	5345.3	5484.0	5292.7	4448.2
55°	3848.2	3882.3	4047.3	4436.4	5139.6	5684.5	5913.2	5890.8	5957.2	5639.1	4718.3
57.5°	3868.5	3896.1	4103.8	4590.2	5398.5	6099.9	6427.8	6441.0	6364.0	5898.0	4941.1
60°	3710.7	3767.3	4005.9	4573.7	5514.9	6389.0	6811.6	6820.8	6602.6	6030.8	5029.9
62.5°	3431.4	3425.6	3714.0	4309.5	5351.9	6454.8	7037.7	7027.8	6696.0	5967.1	4943.7
64°	3045.7	3116.7	3386.1	3984.8	5089.0	6353.5	7061.4	7056.1	6651.2	5834.3	4797.1
65°	2810.4	2806.4	3072.6	3719.3	4827.4	6201.0	7019.3	7012.1	6557.9	5715.4	4683.4
67.5°	2028.9	2038.1	2301.0	2870.2	3924.4	5604.9	6745.2	6718.3	6189.8	5321.0	4251.0
70°	1229.0	1234.3	1440.6	1904.0	2816.9	4531.0	6080.1	6081.4	5626.6	4732.1	3618.1
72.5°	647.4	661.2	744.0	1081.2	1710.8	3179.1	4932.5	5049.5	4830.7	4038.7	2858.3
75°	360.2	362.1	420.7	533.0	872.8	1779.1	3707.5	3741.0	3824.4	3250.7	2113.7
77.5°	274.8	278.7	297.0	344.4	475.2	824.9	2243.8	2412.1	2695.3	2291.8	1206.0
80°	222.8	226.7	242.5	270.8	316.1	391.1	1042.4	1133.1	1442.7	1017.4	470.6
82.5°	173.5	170.9	191.2	209.7	230.0	231.4	427.9	473.2	587.6	437.7	203.8
85°	128.8	128.8	145.2	141.3	148.5	135.4	188.6	208.3	235.3	186.0	94.6
87.5°	51.3	56.5	95.3	85.4	66.4	53.2	69.6	73.6	81.5	72.9	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650768
 CATALOG NUMBER: GALN-SA2C-840-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0
2.5°	1584.6	1586.5	1582.0	1578.7	1577.4	1575.4	1573.4	1574.1	1576.7	1579.3	1578.7
5°	1592.5	1593.1	1585.3	1581.3	1578.7	1576.0	1576.0	1578.1	1583.3	1587.2	1587.2
7.5°	1612.2	1612.2	1601.0	1593.8	1589.8	1585.3	1583.9	1584.6	1588.6	1593.8	1594.5
10°	1643.1	1640.5	1626.0	1614.8	1607.6	1596.5	1586.5	1581.3	1583.3	1586.5	1586.5
12.5°	1680.6	1673.3	1654.9	1639.8	1622.0	1601.0	1580.7	1570.1	1569.5	1572.8	1571.5
15°	1720.7	1712.8	1687.1	1659.5	1628.6	1597.7	1573.4	1558.3	1546.5	1543.2	1550.4
17.5°	1767.3	1750.9	1715.4	1677.3	1631.3	1591.2	1553.1	1522.1	1501.1	1495.2	1497.1
20°	1823.9	1802.2	1754.2	1694.4	1629.3	1567.5	1508.3	1467.0	1432.8	1422.3	1423.6
22.5°	1902.0	1864.6	1794.3	1702.9	1612.9	1522.8	1440.6	1386.8	1345.3	1328.9	1338.8
25°	1990.8	1950.0	1832.4	1700.9	1570.1	1451.1	1360.5	1290.2	1252.7	1228.4	1233.7
27.5°	2113.0	2040.7	1873.2	1683.2	1509.0	1363.8	1258.6	1192.2	1158.1	1145.5	1151.5
30°	2269.4	2158.3	1917.1	1635.2	1412.4	1253.3	1156.1	1112.7	1092.3	1076.6	1081.8
32.5°	2382.5	2241.2	1927.0	1554.3	1307.9	1152.8	1086.4	1054.2	1031.8	1016.8	1020.0
35°	2463.3	2311.5	1922.4	1455.1	1198.8	1070.0	1031.2	1004.9	968.7	935.9	930.0
37.5°	2571.8	2399.5	1888.9	1346.7	1091.0	1014.1	986.5	937.9	886.0	841.9	840.0
40°	2738.0	2502.7	1817.2	1219.2	999.0	972.7	939.2	876.1	820.2	784.7	782.1
42.5°	2909.6	2598.1	1720.0	1085.1	923.4	929.3	888.6	826.1	792.0	769.0	766.3
45°	3119.3	2701.2	1614.8	968.7	867.6	888.6	844.5	808.4	788.0	772.9	769.0
47.5°	3346.0	2807.1	1496.6	864.3	820.2	851.1	826.1	809.7	798.5	788.0	783.4
50°	3590.5	2925.3	1385.5	780.1	777.5	812.3	824.2	818.3	811.6	808.4	804.5
52.5°	3858.7	3046.3	1292.1	721.0	740.1	784.7	824.9	829.4	829.4	827.5	824.9
55°	4040.1	3130.5	1197.5	673.1	701.9	762.4	823.5	841.3	847.8	845.2	842.6
57.5°	4174.1	3176.5	1078.5	631.6	669.7	740.7	816.3	842.6	849.2	852.4	851.1
60°	4201.7	3133.7	922.7	588.2	634.9	709.1	790.0	822.8	831.4	851.8	853.8
62.5°	4077.5	3002.3	767.7	545.5	592.1	661.2	754.5	800.5	817.6	849.2	852.4
64°	3925.0	2855.0	681.5	518.6	564.6	634.2	736.8	794.6	816.9	859.0	861.6
65°	3813.3	2747.9	627.6	501.5	546.8	616.5	726.9	796.6	822.8	874.1	878.1
67.5°	3401.8	2379.2	519.2	461.4	504.8	586.3	728.9	813.0	821.6	880.0	879.3
70°	2814.9	1894.2	435.1	424.5	464.0	562.0	721.0	786.8	787.3	826.1	816.9
72.5°	2107.8	1399.9	377.3	386.4	418.6	504.1	680.9	751.2	740.1	745.3	736.1
75°	1447.9	926.0	324.7	345.7	371.3	445.6	624.4	682.2	664.5	657.9	651.4
77.5°	772.9	512.0	270.1	305.6	322.7	385.2	544.9	600.7	582.3	556.7	548.2
80°	312.9	241.2	217.6	253.1	262.9	310.2	453.5	488.4	474.5	429.8	415.4
82.5°	157.1	144.6	170.9	199.1	199.8	221.5	337.2	370.0	339.2	284.6	272.1
85°	82.2	84.8	117.7	140.0	123.5	119.6	202.4	224.1	205.7	178.8	161.1
87.5°	29.6	34.1	61.8	61.1	43.4	23.0	44.7	21.7	11.9	7.2	9.2
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)