

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: P451430

Luminaire Tested: **GALN-SA2B-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451430
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-SA2B-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11347 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

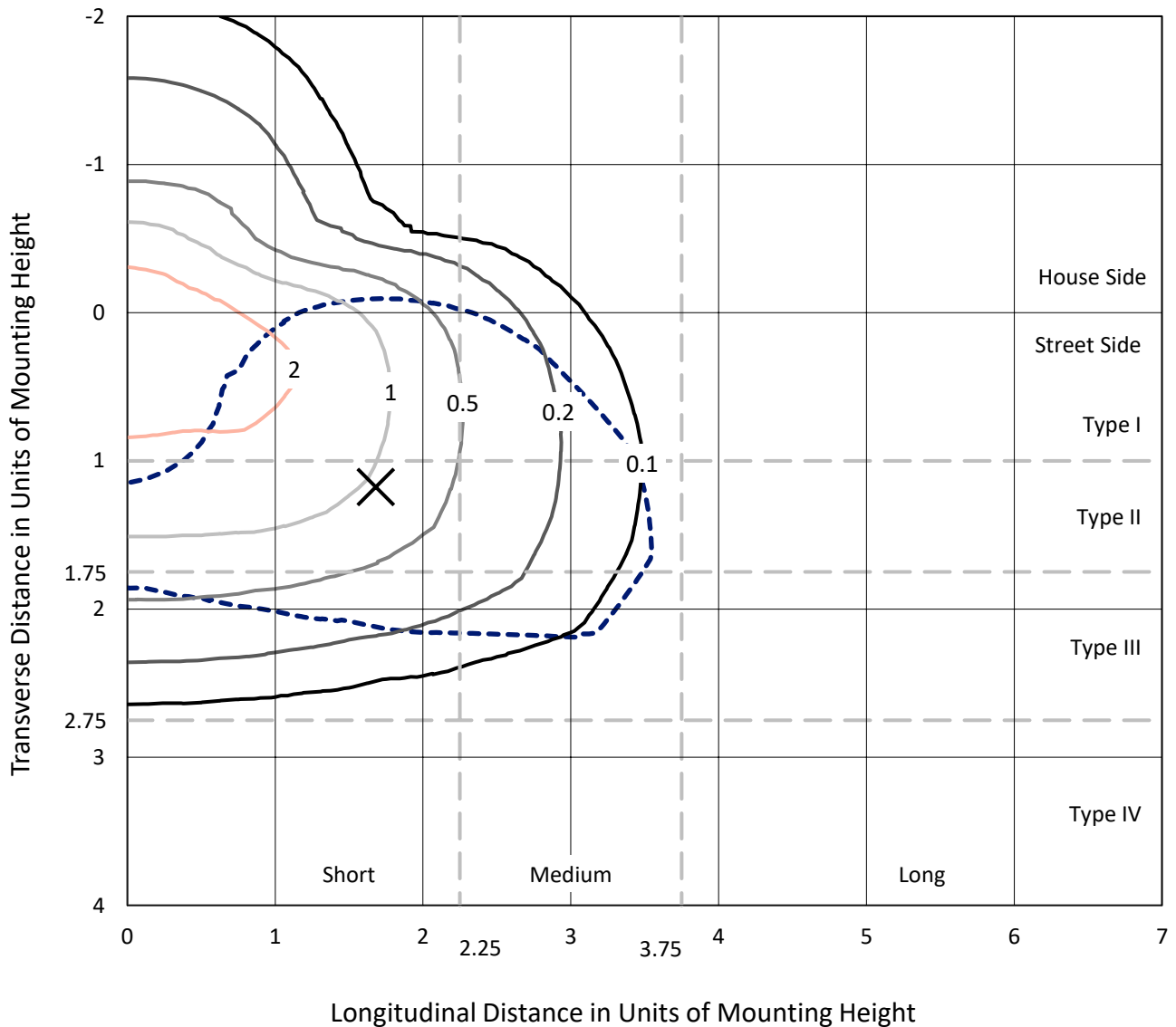
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451430
 CATALOG NUMBER: GALN-SA2B-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

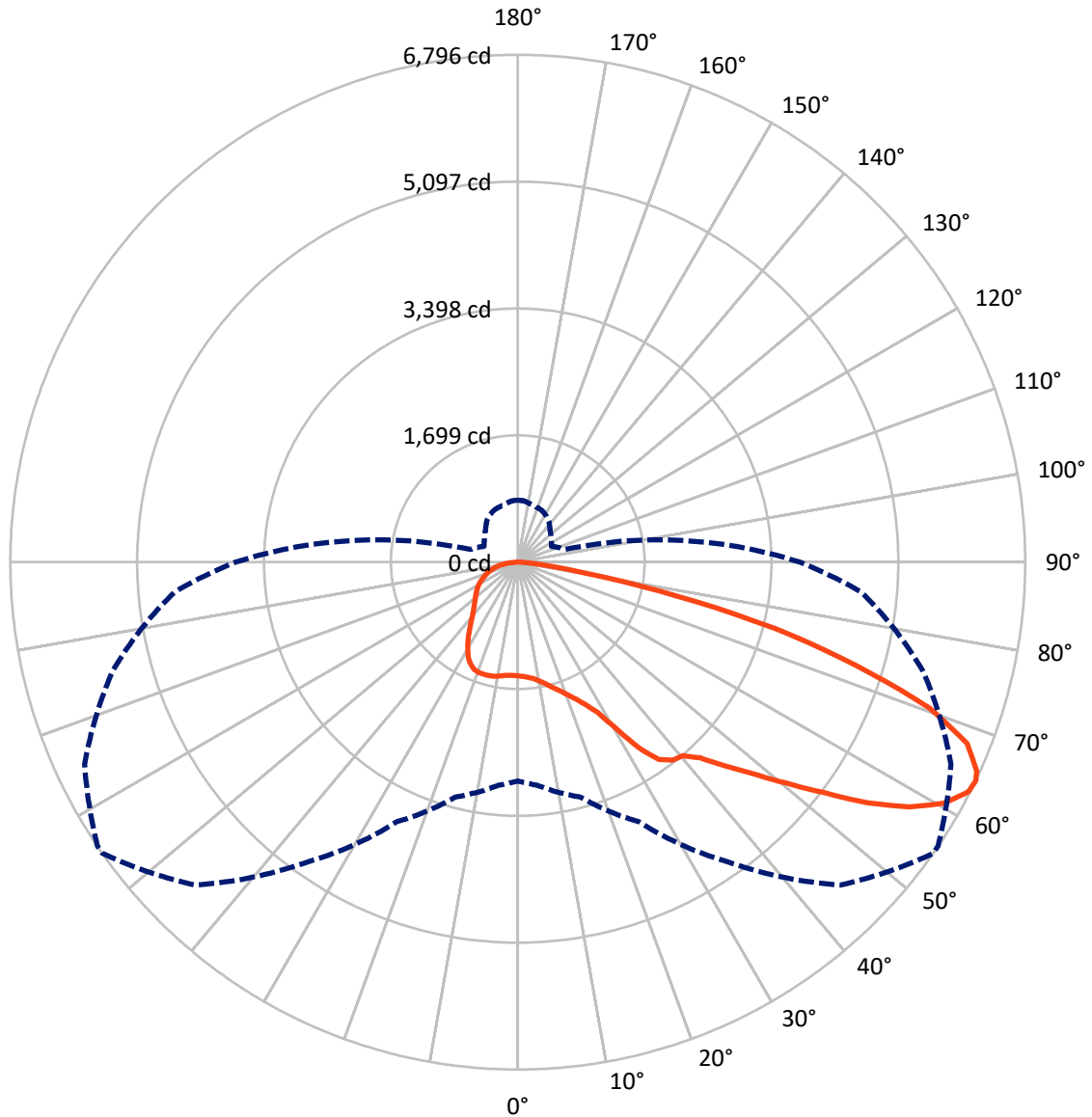
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P451430
CATALOG NUMBER: GALN-SA2B-740-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451430

CATALOG NUMBER: GALN-SA2B-740-U-T3

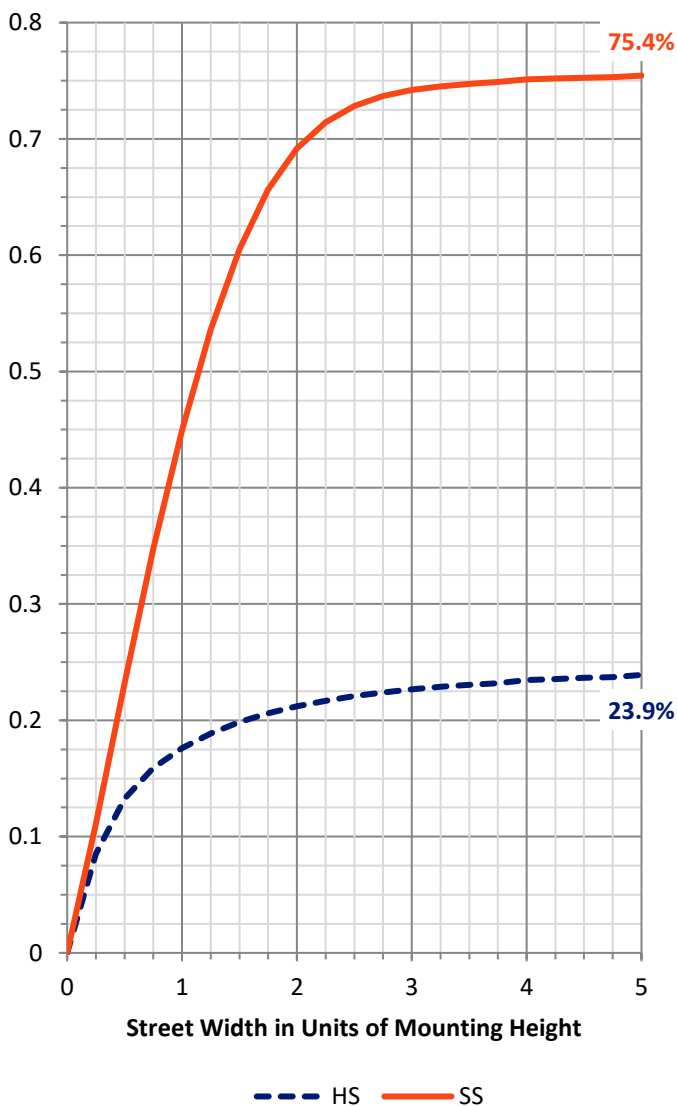
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2756.4	0.0	2756.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	8590.6	0.0	8590.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	11347.0	0.0	11347.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.3
10°-20°	467.3	4.1
20°-30°	831.9	7.3
30°-40°	1279.9	11.3
40°-50°	1814.4	16.0
50°-60°	2626.3	23.1
60°-70°	2717.9	24.0
70°-80°	1272.8	11.2
80°-90°	188.4	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°	11347.0	100.0
0°-180°	11347.0	100.0



REPORT NUMBER: P451430

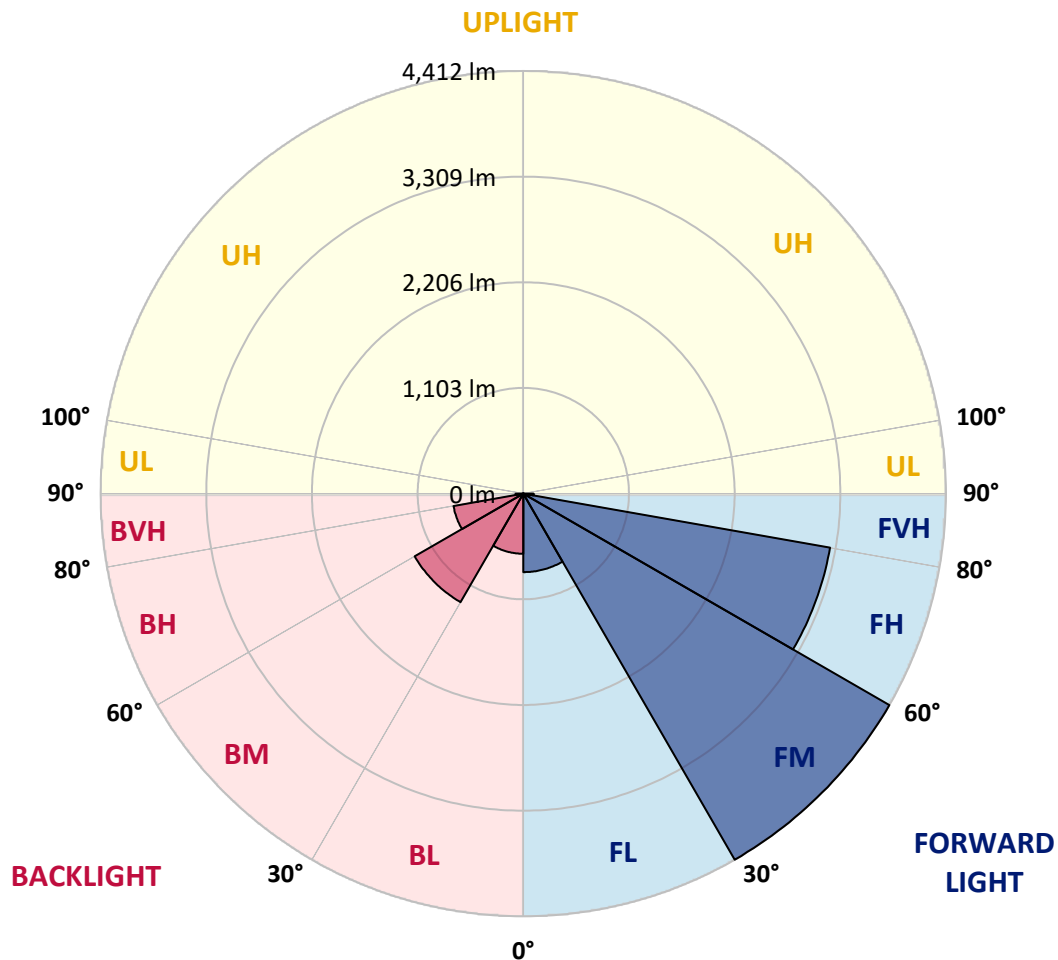
CATALOG NUMBER: GALN-SA2B-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.4	7.2			
FM	(30°-60°)	4412.0	38.9			
FH	(60°-80°)	3251.2	28.7			G2/5000
FVH	(80°-90°)	107.9	1.0			G2/225
BL	(0°-30°)	627.8	5.5	B2/1000		
BM	(30°-60°)	1308.6	11.5	B2/2500		
BH	(60°-80°)	739.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	80.5	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: P451430

CATALOG NUMBER: GALN-SA2B-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4
2.5°	1539.5	1538.9	1540.8	1538.9	1540.1	1535.7	1533.8	1535.1	1533.2	1530.0	1524.3
5°	1558.5	1557.8	1558.5	1555.9	1557.2	1554.7	1550.3	1551.5	1548.4	1541.4	1533.2
7.5°	1590.7	1588.2	1588.2	1587.6	1585.0	1581.2	1578.1	1576.8	1573.7	1564.8	1552.2
10°	1632.5	1632.5	1633.1	1628.1	1631.2	1624.3	1621.1	1620.5	1609.7	1598.3	1580.6
12.5°	1687.5	1690.7	1688.8	1686.2	1685.0	1682.4	1671.7	1674.2	1662.2	1642.6	1621.1
15°	1755.8	1760.9	1757.7	1756.4	1753.3	1743.8	1739.4	1737.5	1721.7	1693.2	1664.7
17.5°	1846.3	1839.9	1837.4	1834.2	1821.0	1814.0	1806.4	1805.2	1791.2	1757.7	1713.4
20°	1925.3	1934.2	1929.1	1926.0	1912.7	1899.4	1893.7	1891.8	1879.8	1843.1	1772.3
22.5°	2019.6	2021.5	2023.4	2015.8	2009.4	1999.3	1989.2	1986.0	1981.6	1943.7	1857.0
25°	2120.1	2127.7	2121.4	2113.8	2106.2	2105.6	2115.1	2113.8	2111.9	2075.2	1969.6
27.5°	2284.0	2290.9	2292.8	2284.6	2255.5	2258.0	2279.5	2286.5	2315.6	2254.9	2114.4
30°	2376.3	2383.3	2399.1	2430.1	2476.2	2516.7	2568.6	2584.4	2612.2	2497.7	2286.5
32.5°	2433.2	2435.8	2464.2	2521.8	2660.3	2811.5	2952.5	2958.2	2975.9	2815.3	2444.0
35°	2523.0	2524.9	2547.7	2611.0	2773.5	3025.2	3243.5	3250.4	3235.9	2913.9	2517.3
37.5°	2633.7	2638.8	2653.3	2705.8	2900.0	3204.2	3364.3	3359.2	3230.2	2992.4	2647.0
40°	2795.0	2795.0	2777.9	2848.8	3033.5	3306.7	3406.6	3397.8	3363.6	3219.4	2844.3
42.5°	2937.3	2934.8	2975.3	3023.3	3200.4	3464.8	3584.4	3598.9	3655.2	3504.7	3068.9
45°	3122.6	3134.0	3156.8	3244.1	3484.4	3734.9	3889.2	3903.2	3982.8	3840.5	3331.4
47.5°	3309.9	3313.7	3385.1	3501.5	3836.1	4101.1	4227.6	4250.4	4323.1	4233.3	3614.1
50°	3442.7	3478.7	3593.2	3776.7	4198.5	4547.7	4646.3	4673.5	4801.9	4660.9	3943.6
52.5°	3583.1	3618.5	3758.3	4037.9	4614.7	5004.3	5125.8	5144.1	5277.6	5093.5	4280.8
55°	3703.3	3736.2	3894.9	4269.4	4946.1	5470.5	5690.6	5669.1	5733.0	5426.8	4540.7
57.5°	3722.9	3749.5	3949.3	4417.4	5195.3	5870.2	6185.8	6198.5	6124.5	5676.0	4755.1
60°	3571.1	3625.5	3855.1	4401.6	5307.3	6148.5	6555.2	6564.1	6354.1	5803.8	4840.5
62.5°	3302.3	3296.6	3574.3	4147.3	5150.4	6211.8	6772.8	6763.3	6443.9	5742.5	4757.7
64°	2931.0	2999.3	3258.6	3834.8	4897.4	6114.4	6795.6	6790.5	6400.9	5614.7	4616.6
65°	2704.6	2700.8	2956.9	3579.3	4645.7	5967.6	6755.1	6748.1	6311.1	5500.2	4507.2
67.5°	1952.5	1961.4	2214.4	2762.1	3776.7	5394.0	6491.3	6465.4	5956.9	5120.7	4091.0
70°	1182.8	1187.8	1386.4	1832.3	2710.9	4360.4	5851.2	5852.5	5414.8	4554.0	3481.9
72.5°	623.0	636.3	716.0	1040.5	1646.4	3059.4	4746.9	4859.5	4648.9	3886.7	2750.7
75°	346.6	348.5	404.8	513.0	840.0	1712.2	3567.9	3600.2	3680.5	3128.3	2034.1
77.5°	264.4	268.2	285.9	331.4	457.3	793.8	2159.4	2321.3	2593.9	2205.5	1160.6
80°	214.4	218.2	233.4	260.6	304.2	376.3	1003.1	1090.4	1388.3	979.1	452.9
82.5°	167.0	164.4	184.1	201.8	221.4	222.6	411.8	455.4	565.5	421.2	196.1
85°	124.0	124.0	139.8	136.0	142.9	130.3	181.5	200.5	226.4	179.0	91.1
87.5°	49.3	54.4	91.7	82.2	63.9	51.2	67.0	70.8	78.4	70.2	37.9
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: P451430
 CATALOG NUMBER: GALN-SA2B-740-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4	1522.4
2.5°	1525.0	1526.9	1522.4	1519.3	1518.0	1516.1	1514.2	1514.8	1517.4	1519.9	1519.3
5°	1532.5	1533.2	1525.6	1521.8	1519.3	1516.7	1516.7	1518.6	1523.7	1527.5	1527.5
7.5°	1551.5	1551.5	1540.8	1533.8	1530.0	1525.6	1524.3	1525.0	1528.7	1533.8	1534.4
10°	1581.2	1578.7	1564.8	1554.0	1547.1	1536.3	1526.9	1521.8	1523.7	1526.9	1526.9
12.5°	1617.3	1610.3	1592.6	1578.1	1561.0	1540.8	1521.2	1511.0	1510.4	1513.6	1512.3
15°	1655.9	1648.3	1623.6	1597.1	1567.3	1537.6	1514.2	1499.7	1488.3	1485.1	1492.1
17.5°	1700.8	1685.0	1650.8	1614.1	1569.9	1531.3	1494.6	1464.9	1444.6	1438.9	1440.8
20°	1755.2	1734.3	1688.1	1630.6	1568.0	1508.5	1451.6	1411.7	1378.8	1368.7	1370.0
22.5°	1830.5	1794.4	1726.7	1638.8	1552.2	1465.5	1386.4	1334.6	1294.7	1278.9	1288.4
25°	1915.8	1876.6	1763.4	1636.9	1511.0	1396.6	1309.3	1241.6	1205.5	1182.1	1187.2
27.5°	2033.5	1963.9	1802.6	1619.8	1452.2	1312.4	1211.2	1147.4	1114.5	1102.4	1108.1
30°	2184.0	2077.1	1845.0	1573.7	1359.2	1206.2	1112.6	1070.8	1051.2	1036.0	1041.1
32.5°	2292.8	2156.8	1854.5	1495.9	1258.7	1109.4	1045.5	1014.5	993.0	978.5	981.6
35°	2370.6	2224.5	1850.1	1400.4	1153.7	1029.7	992.4	967.1	932.3	900.7	895.0
37.5°	2475.0	2309.3	1817.8	1296.0	1049.9	975.9	949.4	902.6	852.6	810.2	808.3
40°	2635.0	2408.6	1748.9	1173.3	961.4	936.1	903.8	843.1	789.4	755.2	752.7
42.5°	2800.1	2500.3	1655.2	1044.3	888.7	894.4	855.1	795.1	762.2	740.0	737.5
45°	3001.8	2599.6	1554.0	932.3	834.9	855.1	812.8	778.0	758.4	743.8	740.0
47.5°	3220.1	2701.4	1440.2	831.7	789.4	819.1	795.1	779.2	768.5	758.4	753.9
50°	3455.3	2815.3	1333.3	750.8	748.2	781.8	793.2	787.5	781.1	778.0	774.2
52.5°	3713.4	2931.6	1243.5	693.9	712.2	755.2	793.8	798.2	798.2	796.3	793.8
55°	3888.0	3012.6	1152.4	647.7	675.5	733.7	792.5	809.6	815.9	813.4	810.9
57.5°	4017.0	3056.9	1037.9	607.8	644.5	712.8	785.6	810.9	817.2	820.4	819.1
60°	4043.6	3015.8	888.0	566.1	611.0	682.5	760.3	791.9	800.1	819.7	821.6
62.5°	3924.0	2889.3	738.8	525.0	569.9	636.3	726.1	770.4	786.8	817.2	820.4
64°	3777.3	2747.6	655.9	499.0	543.3	610.4	709.0	764.7	786.2	826.7	829.2
65°	3669.8	2644.5	604.0	482.6	526.2	593.3	699.5	766.6	791.9	841.2	845.0
67.5°	3273.8	2289.6	499.7	444.0	485.8	564.2	701.4	782.4	790.6	846.9	846.3
70°	2709.0	1822.9	418.7	408.6	446.5	540.8	693.9	757.1	757.7	795.1	786.2
72.5°	2028.4	1347.2	363.1	371.9	402.9	485.1	655.3	722.9	712.2	717.3	708.4
75°	1393.4	891.2	312.5	332.7	357.4	428.8	600.9	656.5	639.5	633.1	626.8
77.5°	743.8	492.7	260.0	294.1	310.6	370.6	524.3	578.1	560.4	535.7	527.5
80°	301.1	232.1	209.4	243.5	253.0	298.5	436.4	469.9	456.7	413.7	399.7
82.5°	151.2	139.1	164.4	191.6	192.3	213.2	324.5	356.1	326.4	273.9	261.9
85°	79.1	81.6	113.2	134.7	118.9	115.1	194.8	215.7	198.0	172.0	155.0
87.5°	28.5	32.9	59.5	58.8	41.7	22.1	43.0	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)