

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: P947343

Luminaire Tested: **GALN-SB2D-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2D-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17123 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 147.6
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

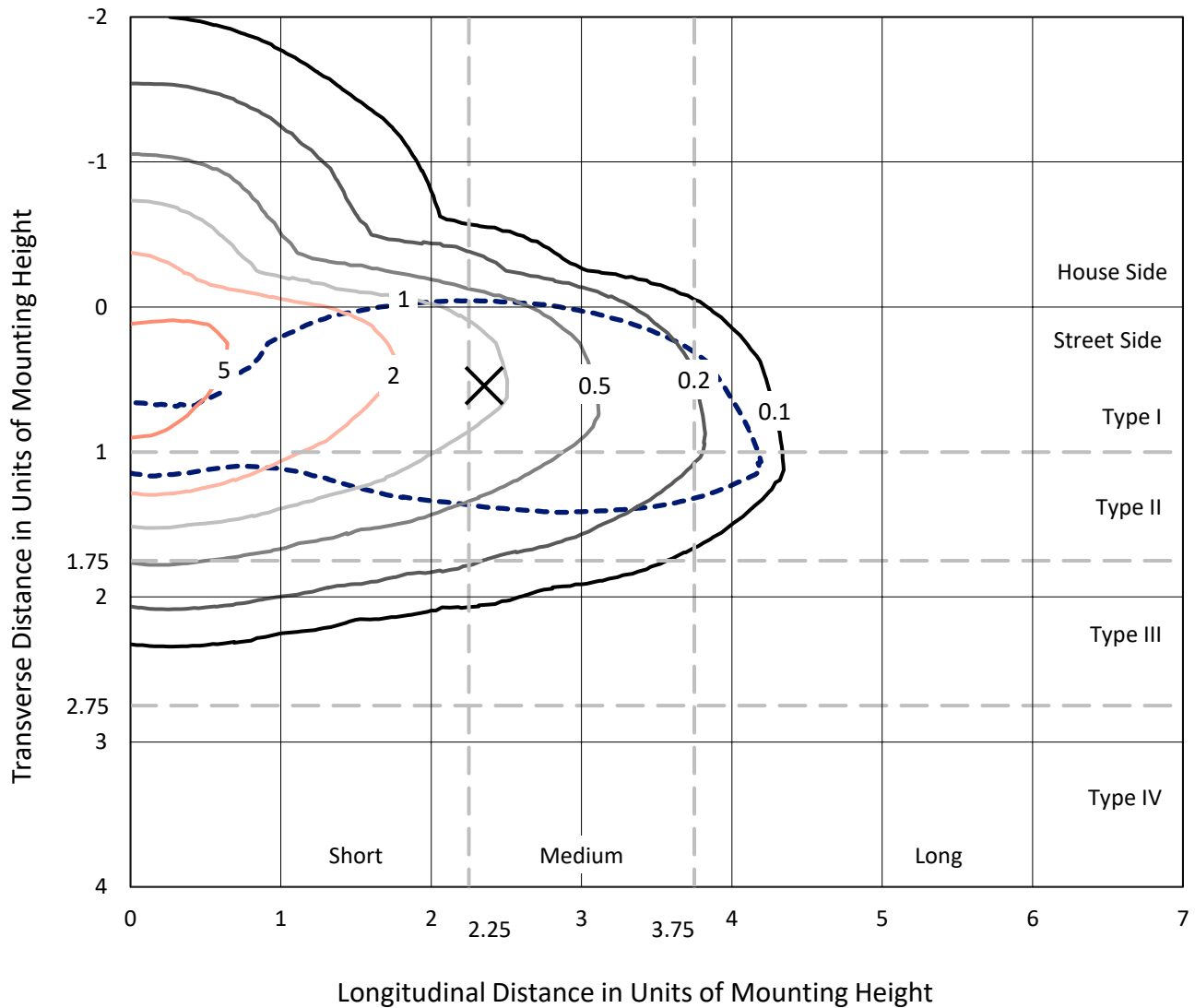


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Iso-Footcandle Lines of Horizontal Illumination

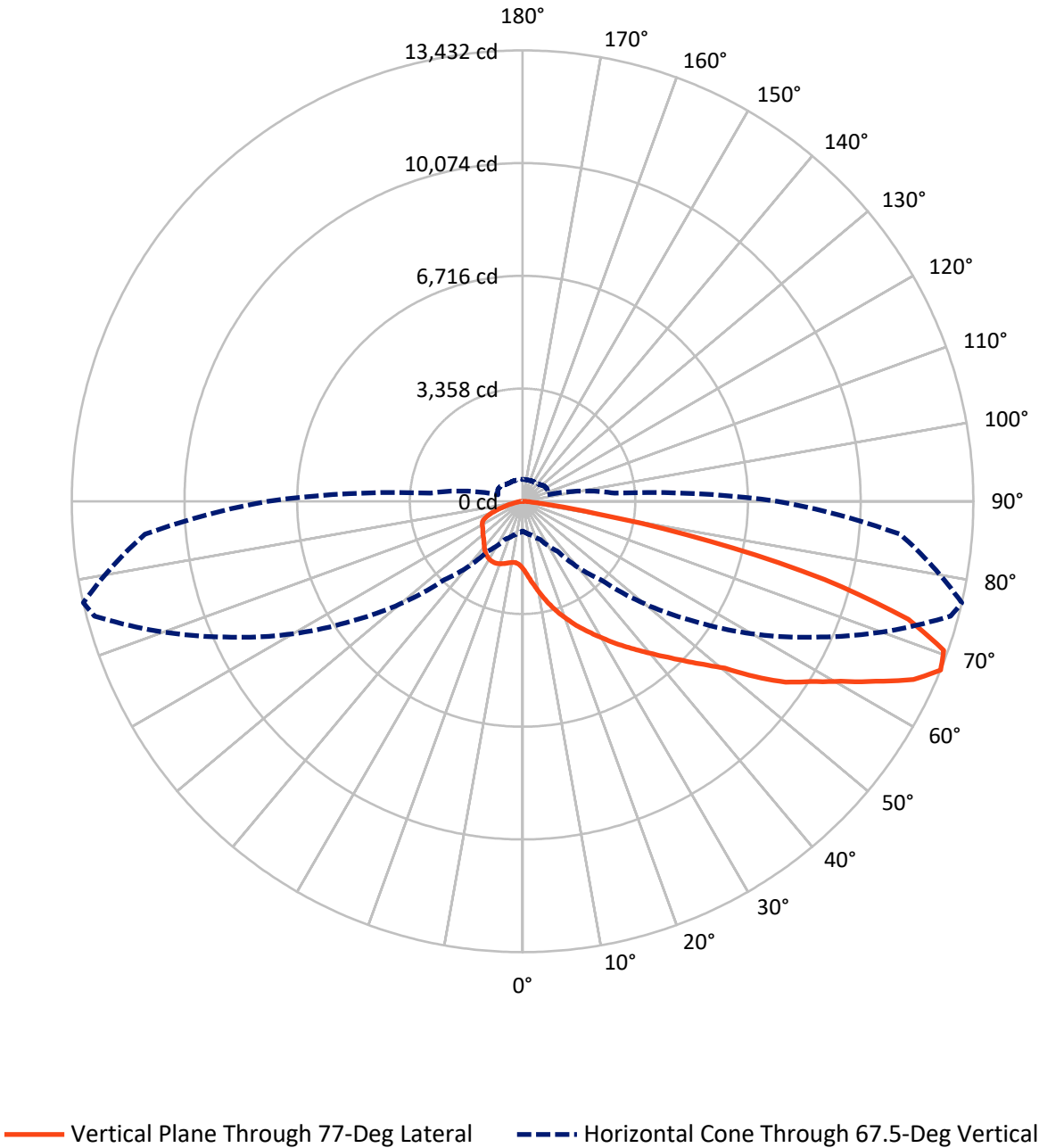
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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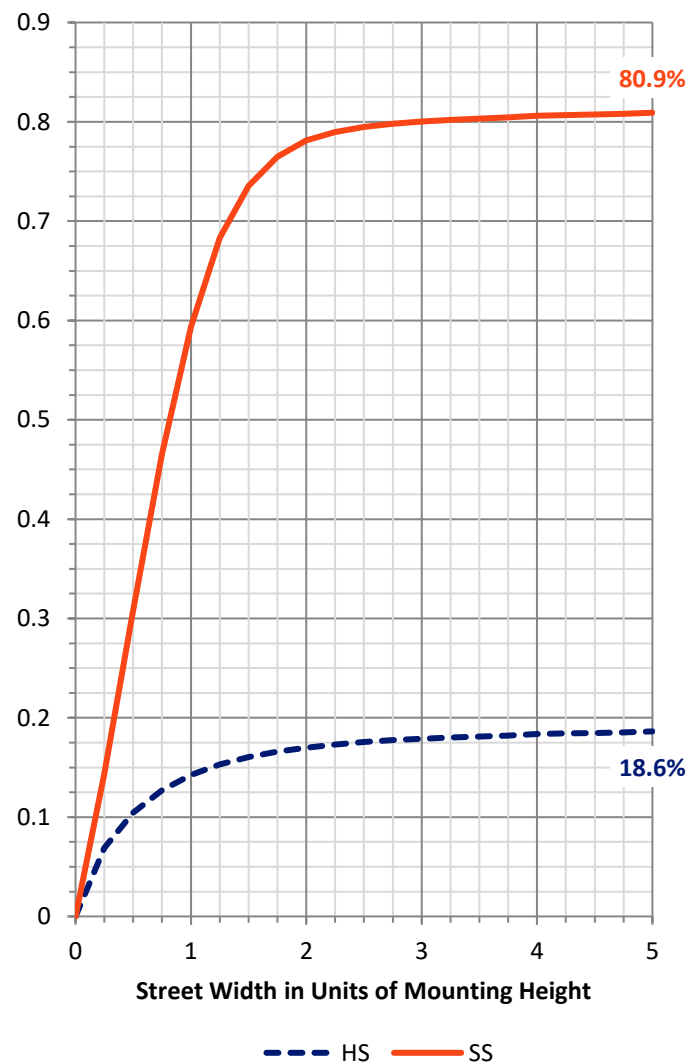
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3239.0	0.0	3239.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	13884.0	0.0	13884.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	17123.0	0.0	17123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	1.3
10°-20°	773.6	4.5
20°-30°	1460.7	8.5
30°-40°	2353.2	13.7
40°-50°	3218.7	18.8
50°-60°	3630.8	21.2
60°-70°	3388.9	19.8
70°-80°	1857.7	10.8
80°-90°	224.1	1.3
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°	17123.0	100.0
0°-180°	17123.0	100.0

Coefficient of Utilization



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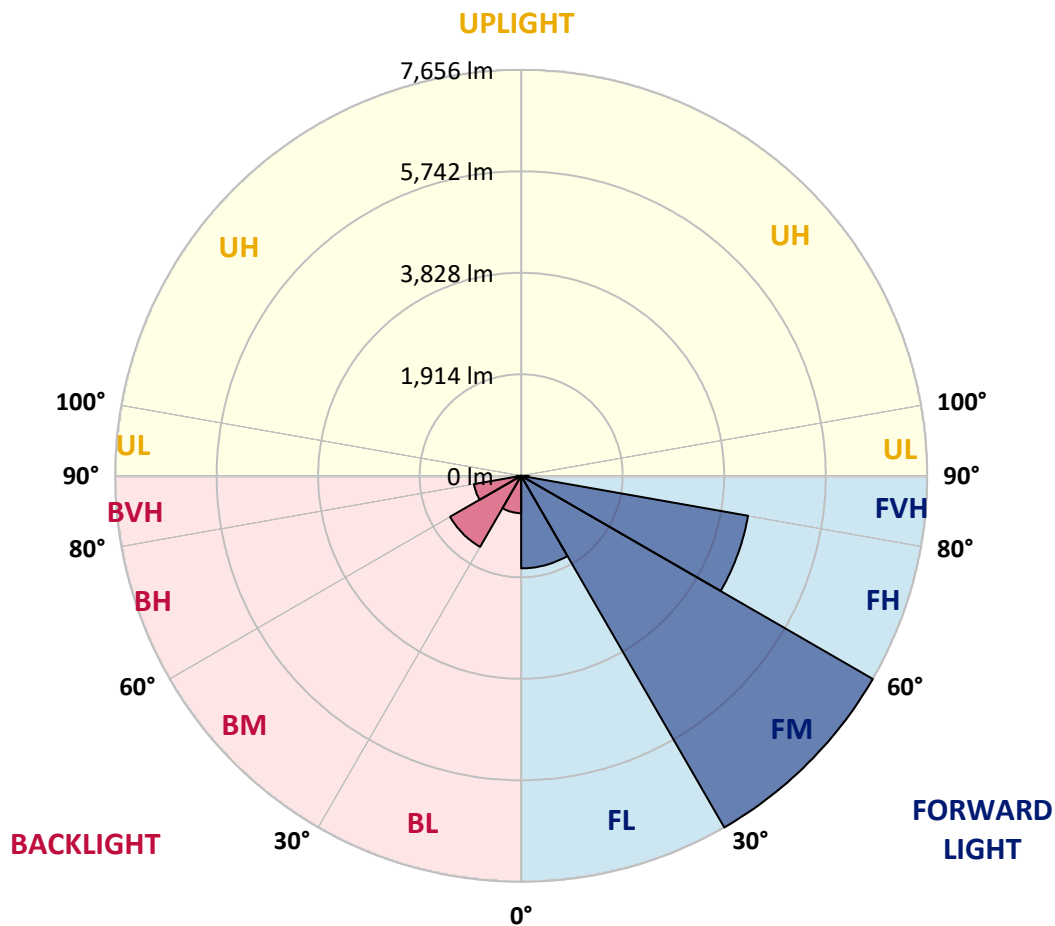
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1745.5	10.2			
FM	(30°-60°)	7655.5	44.7			
FH	(60°-80°)	4342.9	25.4			G2/5000
FVH	(80°-90°)	140.1	0.8			G2/225
BL	(0°-30°)	704.2	4.1	B2/1000		
BM	(30°-60°)	1547.2	9.0	B2/2500		
BH	(60°-80°)	903.6	5.3	B2/1000		G2/1000
BVH	(80°-90°)	83.9	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1
2.5°	2515.5	2533.2	2511.1	2511.1	2436.9	2398.0	2323.7	2267.2	2165.5	2147.8	2080.7
5°	2973.4	2995.5	2964.5	2951.3	2863.8	2783.3	2658.7	2535.9	2354.7	2336.1	2177.9
7.5°	3327.8	3356.1	3328.7	3314.6	3236.8	3146.6	3000.8	2829.3	2573.9	2537.6	2308.7
10°	3616.8	3621.3	3612.4	3617.7	3556.7	3482.5	3333.1	3133.4	2814.3	2764.8	2466.9
12.5°	3780.4	3800.7	3818.4	3850.2	3839.6	3793.6	3659.3	3420.6	3068.8	3005.2	2639.3
15°	3857.3	3892.6	3932.4	4005.7	4065.0	4076.5	3973.9	3729.1	3327.8	3250.9	2813.4
17.5°	3884.7	3918.2	3981.0	4087.1	4214.3	4300.1	4254.1	4028.7	3584.1	3495.7	2996.4
20°	4023.4	4033.1	4071.2	4171.9	4309.8	4452.1	4486.6	4316.9	3837.8	3737.9	3185.5
22.5°	4320.4	4301.0	4311.6	4357.5	4456.5	4594.4	4673.1	4571.4	4098.6	3983.6	3376.4
25°	4811.0	4754.4	4697.8	4644.8	4695.2	4773.0	4862.2	4826.0	4371.7	4225.8	3569.1
27.5°	5430.6	5361.6	5237.0	5062.9	5001.9	5029.3	5069.1	5062.0	4624.5	4476.9	3768.0
30°	6040.4	5960.0	5811.5	5559.6	5398.7	5326.3	5296.2	5275.9	4899.3	4742.0	3968.6
32.5°	6527.5	6463.8	6318.0	6036.0	5802.7	5678.9	5579.1	5506.6	5186.6	5029.3	4180.8
35°	6953.5	6894.3	6727.2	6419.6	6165.9	6034.3	5903.4	5748.8	5485.4	5326.3	4408.8
37.5°	7342.4	7283.2	7054.2	6734.3	6478.8	6387.8	6271.1	6008.6	5785.0	5634.7	4650.1
40°	7588.1	7574.9	7361.0	6998.6	6733.4	6688.3	6649.4	6310.0	6117.3	5977.7	4915.3
42.5°	7650.9	7680.0	7510.3	7212.5	6959.7	6923.4	7014.5	6651.2	6490.3	6356.9	5215.8
45°	7499.7	7583.7	7472.3	7269.9	7120.5	7101.1	7338.0	7024.2	6903.1	6781.1	5578.2
47.5°	7117.0	7259.3	7213.3	7185.1	7163.8	7247.8	7622.6	7420.2	7370.7	7264.6	5991.8
50°	6344.5	6614.1	6694.5	6873.1	7078.1	7361.8	7881.6	7852.4	7916.9	7810.0	6495.6
52.5°	5008.9	5380.2	5846.9	6294.1	6814.7	7323.8	8166.2	8472.9	8745.1	8686.8	7296.4
55°	4134.8	4301.8	4660.7	5480.9	6303.8	7163.8	8294.3	8974.0	9567.1	9515.0	7903.7
57.5°	3463.0	3612.4	3833.4	4518.4	5531.3	6800.6	8373.9	9279.9	10130.2	10124.8	8502.9
60°	2742.7	2900.9	3127.2	3612.4	4628.9	6173.0	8356.2	9628.1	10848.7	10892.9	9233.9
62.5°	1929.5	2103.6	2354.7	2807.2	3707.0	5359.8	7995.6	9880.0	11694.6	11814.8	10113.4
65°	1268.4	1383.3	1572.4	1963.1	2762.1	4314.2	7307.0	9912.7	12599.7	12803.0	10938.9
67.5°	889.2	933.4	1044.7	1256.9	1820.8	3308.4	6210.1	9574.2	13203.4	13432.3	11296.9
70°	693.8	715.9	772.5	857.4	1143.7	2224.7	4758.8	8693.8	13074.4	13313.0	10923.0
72.5°	599.3	620.5	641.7	652.3	767.2	1373.5	3223.5	7269.0	11859.0	12020.8	9497.3
75°	543.6	548.9	566.6	563.0	585.1	891.0	1860.6	5296.2	9356.8	9301.1	7010.9
77.5°	457.0	464.0	493.2	488.8	519.7	609.0	966.1	3418.0	6066.1	5687.8	3902.3
80°	387.1	390.7	422.5	417.2	451.7	441.1	493.2	1742.1	2573.0	2179.6	1125.2
82.5°	134.3	166.2	322.6	332.3	344.7	266.9	284.6	710.6	785.8	601.9	236.0
85°	65.4	69.8	164.4	233.3	232.5	134.3	138.8	253.7	247.5	194.5	78.7
87.5°	10.6	13.3	19.4	91.0	72.5	35.4	47.7	49.5	51.3	44.2	17.7
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°	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1
2.5°	2031.2	1987.0	1894.2	1808.4	1741.2	1676.7	1640.5	1609.5	1591.9	1588.3	1588.3
5°	2086.0	1994.9	1826.1	1683.8	1591.0	1522.0	1485.8	1462.8	1451.3	1444.3	1443.4
7.5°	2164.6	2031.2	1790.7	1629.0	1531.8	1482.3	1463.7	1460.2	1459.3	1460.2	1462.8
10°	2273.3	2090.4	1787.2	1615.7	1534.4	1507.0	1506.1	1507.0	1510.6	1511.4	1512.3
12.5°	2390.9	2151.4	1801.3	1627.2	1568.0	1553.0	1550.3	1549.4	1552.1	1553.9	1554.7
15°	2519.1	2231.8	1825.2	1652.0	1605.1	1589.2	1586.6	1581.3	1580.4	1579.5	1578.6
17.5°	2650.8	2311.3	1851.7	1678.5	1629.0	1606.9	1597.2	1584.8	1575.1	1572.4	1575.1
20°	2784.2	2390.0	1870.3	1691.7	1630.8	1599.8	1580.4	1559.2	1542.4	1532.6	1536.2
22.5°	2926.5	2472.2	1881.8	1688.2	1614.8	1572.4	1537.1	1512.3	1486.7	1469.9	1470.8
25°	3065.3	2543.8	1880.9	1669.6	1583.9	1530.0	1484.9	1453.1	1417.7	1400.1	1400.1
27.5°	3198.8	2608.3	1858.8	1636.9	1539.7	1479.6	1425.7	1387.7	1353.2	1336.4	1335.5
30°	3336.6	2662.2	1824.3	1589.2	1487.6	1421.3	1362.1	1329.4	1298.4	1282.5	1281.6
32.5°	3473.6	2711.7	1775.7	1530.0	1427.5	1363.8	1305.5	1275.4	1256.9	1256.9	1257.8
35°	3618.6	2746.2	1711.2	1461.1	1363.8	1302.8	1256.9	1239.2	1237.4	1226.8	1224.2
37.5°	3771.5	2768.3	1632.5	1390.3	1301.1	1243.6	1229.5	1208.3	1190.6	1167.6	1164.1
40°	3932.4	2790.4	1538.0	1317.0	1234.8	1203.0	1196.8	1168.5	1118.1	1061.5	1053.6
42.5°	4127.7	2805.4	1439.8	1243.6	1165.0	1154.3	1163.2	1114.6	1034.1	991.7	992.6
45°	4354.0	2830.2	1349.7	1171.1	1093.4	1093.4	1130.5	1066.8	1000.6	974.0	978.5
47.5°	4647.4	2887.6	1265.7	1091.6	1027.1	1044.7	1058.0	1009.4	972.3	939.6	938.7
50°	5071.7	3025.5	1179.1	1011.2	976.7	1012.0	993.5	965.2	921.9	895.4	892.7
52.5°	5598.5	3106.8	1102.2	938.7	933.4	968.7	942.2	915.7	883.0	847.6	840.6
55°	5957.4	3121.9	1037.7	885.6	904.2	900.7	891.0	867.1	849.4	802.6	803.4
57.5°	6358.6	3151.9	984.6	853.8	885.6	846.8	843.2	822.9	799.9	768.1	757.5
60°	6838.6	3198.8	938.7	841.5	869.7	811.4	793.7	785.8	762.8	746.9	751.3
62.5°	7361.8	3241.2	891.8	843.2	851.2	776.9	750.4	747.8	733.6	728.3	728.3
65°	7718.9	3125.4	833.5	841.5	822.0	741.6	708.0	707.1	695.6	693.8	693.0
67.5°	7594.3	2758.6	754.8	816.7	792.0	706.2	669.1	665.6	650.5	651.4	651.4
70°	6970.3	2235.3	646.1	755.7	754.8	674.4	628.4	616.9	596.6	600.2	603.7
72.5°	5800.0	1656.4	500.3	654.1	695.6	645.2	581.6	563.0	537.4	540.9	540.1
75°	4188.7	1126.1	364.2	497.6	605.5	610.8	535.6	503.8	472.9	478.2	479.9
77.5°	2143.4	638.2	267.8	342.9	475.5	555.1	494.1	451.7	444.6	494.1	487.0
80°	699.1	320.0	185.6	240.4	312.0	454.3	433.1	384.5	382.7	394.2	338.5
82.5°	208.6	135.2	119.3	158.2	172.4	348.2	373.9	290.8	250.1	263.4	272.2
85°	71.6	65.4	68.1	78.7	82.2	204.2	261.6	192.7	182.1	200.6	198.0
87.5°	16.8	23.0	19.4	17.7	17.7	49.5	101.6	80.4	111.4	74.2	71.6
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)