

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: P949485

Luminaire Tested: **GALN-SB4B-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949485
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-SB4B-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18989 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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



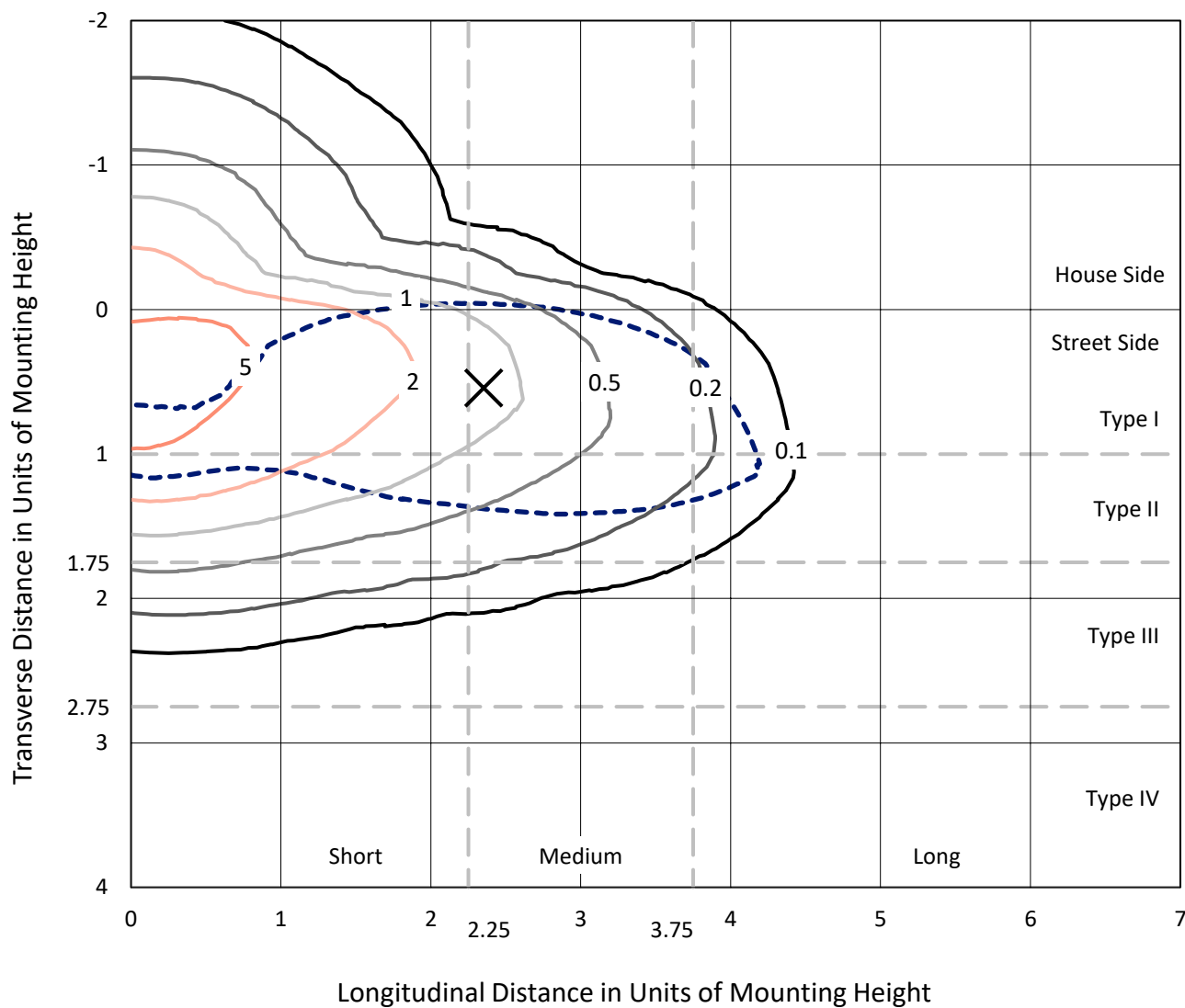
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

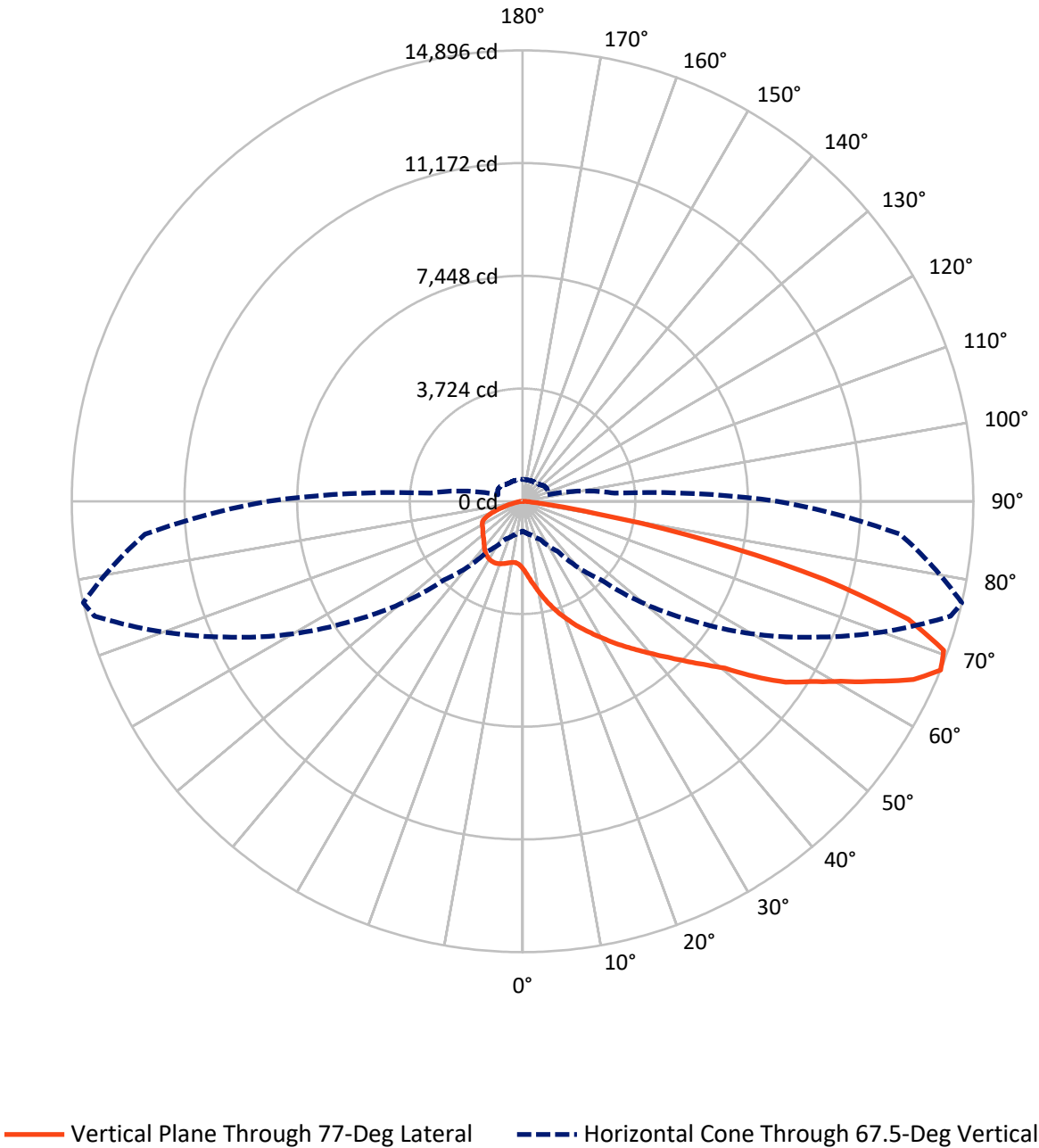


Based on 25 foot mounting height. Maximum calculated value = 7 fc

Type II - Medium - N/A

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Luminous Intensity Polar Plot



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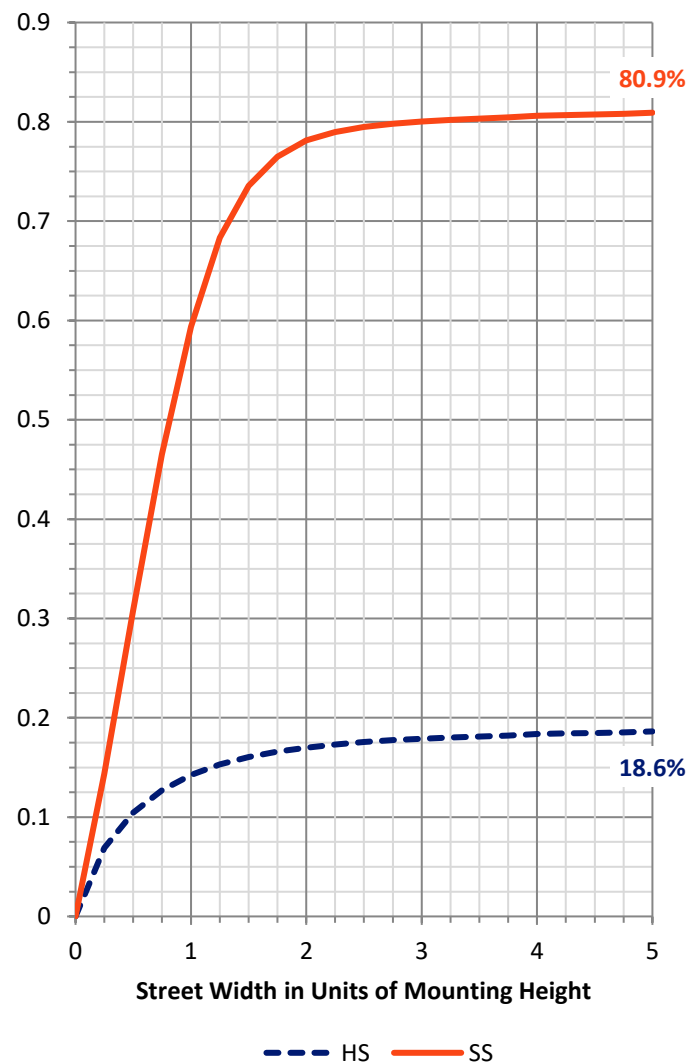
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3592.0	0.0	3592.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	15397.1	0.0	15397.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	18989.0	0.0	18989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	1.3
10°-20°	858.0	4.5
20°-30°	1619.9	8.5
30°-40°	2609.6	13.7
40°-50°	3569.5	18.8
50°-60°	4026.4	21.2
60°-70°	3758.2	19.8
70°-80°	2060.1	10.8
80°-90°	248.5	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°	18989.0	100.0
0°-180°	18989.0	100.0

Coefficient of Utilization



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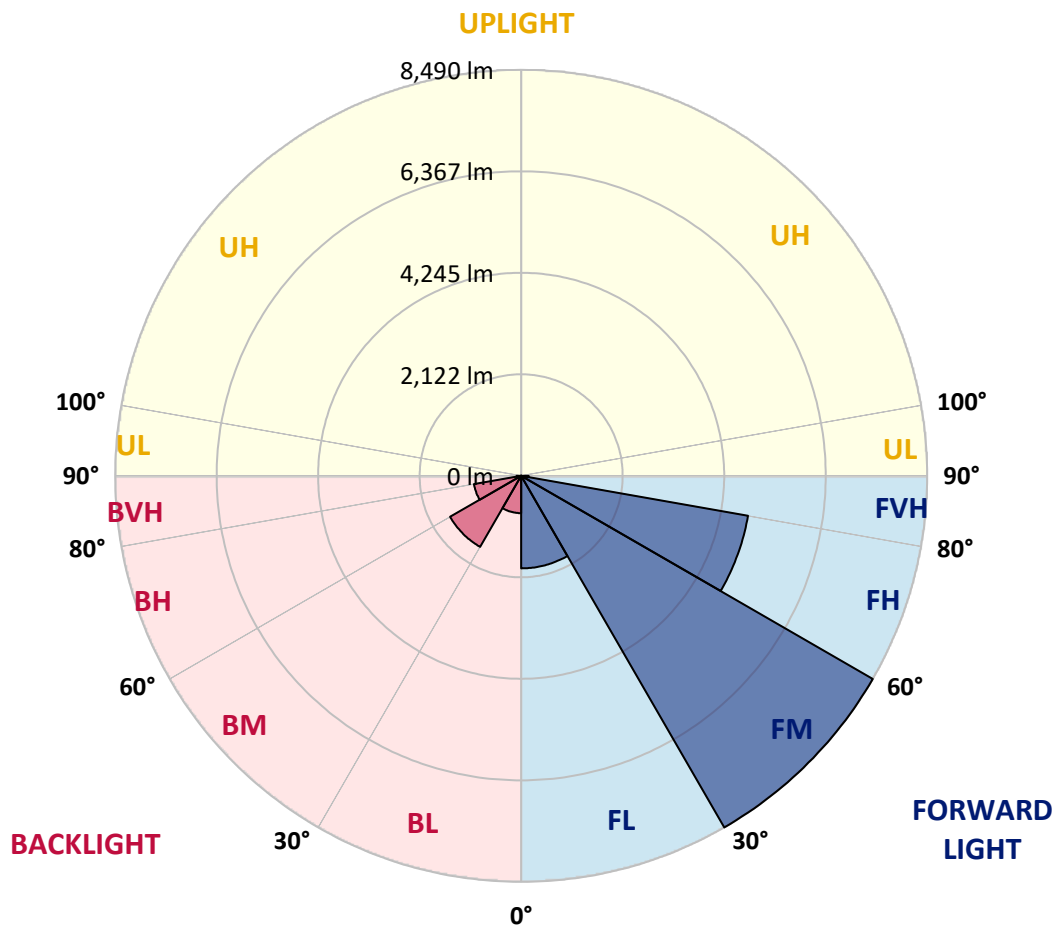
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1935.7	10.2			
FM	(30°-60°)	8489.8	44.7			
FH	(60°-80°)	4816.2	25.4			G2/5000
FVH	(80°-90°)	155.4	0.8			G2/225
BL	(0°-30°)	781.0	4.1	B2/1000		
BM	(30°-60°)	1715.8	9.0	B2/2500		
BH	(60°-80°)	1002.1	5.3	B3/2500		G3/2500
BVH	(80°-90°)	93.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2789.7	2809.3	2784.8	2784.8	2702.4	2659.3	2577.0	2514.2	2401.5	2381.9	2307.4
5°	3297.4	3321.9	3287.6	3272.9	3175.9	3086.7	2948.4	2812.2	2611.3	2590.7	2415.2
7.5°	3690.5	3721.8	3691.4	3675.8	3589.5	3489.5	3327.8	3137.6	2854.3	2814.2	2560.3
10°	4011.0	4015.9	4006.1	4012.0	3944.3	3862.0	3696.3	3474.8	3121.0	3066.1	2735.7
12.5°	4192.3	4214.9	4234.5	4269.8	4258.0	4207.0	4058.0	3793.4	3403.3	3332.7	2926.9
15°	4277.6	4316.8	4360.9	4442.3	4507.9	4520.7	4407.0	4135.5	3690.5	3605.2	3120.0
17.5°	4308.0	4345.2	4414.8	4532.5	4673.6	4768.7	4717.7	4467.8	3974.7	3876.7	3322.9
20°	4461.9	4472.7	4514.8	4626.6	4779.5	4937.3	4975.5	4787.3	4256.0	4145.3	3532.6
22.5°	4791.2	4769.7	4781.4	4832.4	4942.2	5095.1	5182.3	5069.6	4545.2	4417.8	3744.4
25°	5335.2	5272.5	5209.8	5151.0	5206.8	5293.1	5392.1	5351.9	4848.1	4686.3	3958.1
27.5°	6022.4	5945.9	5807.7	5614.6	5547.0	5577.4	5621.5	5613.6	5128.4	4964.7	4178.6
30°	6698.7	6609.5	6444.8	6165.5	5987.1	5906.7	5873.4	5850.8	5433.3	5258.8	4401.1
32.5°	7238.8	7168.2	7006.5	6693.8	6435.0	6297.8	6187.0	6106.7	5751.8	5577.4	4636.4
35°	7711.3	7645.6	7460.3	7119.2	6837.9	6691.8	6546.8	6375.2	6083.1	5906.7	4889.2
37.5°	8142.5	8076.9	7823.0	7468.2	7184.9	7083.9	6954.5	6663.4	6415.4	6248.8	5156.8
40°	8415.0	8400.3	8163.1	7761.2	7467.2	7417.2	7374.1	6997.7	6784.0	6629.1	5450.9
42.5°	8484.6	8517.0	8328.8	7998.5	7718.1	7677.9	7778.9	7376.0	7197.6	7049.6	5784.2
45°	8317.0	8410.1	8286.6	8062.2	7896.5	7874.9	8137.6	7789.7	7655.4	7520.1	6186.1
47.5°	7892.6	8050.4	7999.4	7968.1	7944.5	8037.7	8453.3	8228.8	8173.9	8056.3	6644.8
50°	7035.9	7334.9	7424.1	7622.1	7849.5	8164.1	8740.5	8708.1	8779.7	8661.1	7203.5
52.5°	5554.8	5966.5	6484.0	6980.0	7557.4	8122.0	9056.1	9396.2	9698.1	9633.4	8091.6
55°	4585.4	4770.6	5168.6	6078.2	6990.8	7944.5	9198.2	9952.0	10609.7	10551.9	8765.0
57.5°	3840.4	4006.1	4251.1	5010.8	6134.1	7541.7	9286.4	10291.1	11234.1	11228.2	9429.5
60°	3041.6	3217.0	3468.0	4006.1	5133.3	6845.7	9266.8	10677.3	12031.0	12080.0	10240.2
62.5°	2139.8	2332.9	2611.3	3113.1	4111.0	5943.9	8866.9	10956.7	12969.1	13102.4	11215.5
65°	1406.6	1534.0	1743.8	2177.0	3063.1	4784.4	8103.3	10993.0	13972.8	14198.2	12131.0
67.5°	986.1	1035.1	1158.6	1393.8	2019.2	3668.9	6886.9	10617.6	14642.3	14896.1	12528.0
70°	769.5	794.0	856.7	950.8	1268.4	2467.2	5277.4	9641.3	14499.2	14763.8	12113.3
72.5°	664.6	688.1	711.6	723.4	850.8	1523.2	3574.8	8061.2	13151.4	13330.8	10532.3
75°	602.8	608.7	628.3	624.4	648.9	988.0	2063.3	5873.4	10376.4	10314.7	7775.0
77.5°	506.8	514.6	547.0	542.1	576.4	675.4	1071.4	3790.4	6727.1	6307.6	4327.6
80°	429.3	433.2	468.5	462.7	500.9	489.1	547.0	1932.0	2853.4	2417.2	1247.8
82.5°	149.0	184.3	357.8	368.6	382.3	296.0	315.6	788.1	871.4	667.5	261.7
85°	72.5	77.4	182.3	258.8	257.8	149.0	153.9	281.3	274.5	215.6	87.2
87.5°	11.8	14.7	21.6	101.0	80.4	39.2	52.9	54.9	56.9	49.0	19.6
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°	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0	2228.0
2.5°	2252.5	2203.5	2100.6	2005.5	1931.0	1859.4	1819.3	1784.9	1765.3	1761.4	1761.4
5°	2313.3	2212.3	2025.1	1867.3	1764.4	1687.9	1647.7	1622.2	1609.5	1601.7	1600.7
7.5°	2400.5	2252.5	1985.9	1806.5	1698.7	1643.8	1623.2	1619.3	1618.3	1619.3	1622.2
10°	2521.1	2318.2	1982.0	1791.8	1701.6	1671.2	1670.3	1671.2	1675.2	1676.1	1677.1
12.5°	2651.4	2385.8	1997.7	1804.6	1738.9	1722.2	1719.3	1718.3	1721.2	1723.2	1724.2
15°	2793.6	2475.0	2024.1	1832.0	1780.0	1762.4	1759.5	1753.6	1752.6	1751.6	1750.6
17.5°	2939.6	2563.2	2053.5	1861.4	1806.5	1782.0	1771.2	1757.5	1746.7	1743.8	1746.7
20°	3087.6	2650.5	2074.1	1876.1	1808.5	1774.2	1752.6	1729.1	1710.5	1699.7	1703.6
22.5°	3245.4	2741.6	2086.9	1872.2	1790.8	1743.8	1704.6	1677.1	1648.7	1630.1	1631.1
25°	3399.3	2821.0	2085.9	1851.6	1756.5	1696.7	1646.7	1611.5	1572.2	1552.6	1552.6
27.5°	3547.4	2892.6	2061.4	1815.3	1707.5	1640.9	1581.1	1538.9	1500.7	1482.1	1481.1
30°	3700.3	2952.4	2023.1	1762.4	1649.7	1576.2	1510.5	1474.2	1439.9	1422.3	1421.3
32.5°	3852.2	3007.3	1969.2	1696.7	1583.0	1512.5	1447.8	1414.4	1393.8	1393.8	1394.8
35°	4012.9	3045.5	1897.7	1620.3	1512.5	1444.8	1393.8	1374.2	1372.3	1360.5	1357.6
37.5°	4182.5	3070.0	1810.4	1541.9	1442.9	1379.1	1363.5	1339.9	1320.3	1294.8	1290.9
40°	4360.9	3094.5	1705.6	1460.5	1369.3	1334.1	1327.2	1295.8	1240.0	1177.2	1168.4
42.5°	4577.5	3111.2	1596.7	1379.1	1291.9	1280.1	1289.9	1236.0	1146.8	1099.8	1100.8
45°	4828.5	3138.6	1496.8	1298.8	1212.5	1212.5	1253.7	1183.1	1109.6	1080.2	1085.1
47.5°	5153.9	3202.3	1403.6	1210.5	1139.0	1158.6	1173.3	1119.4	1078.2	1042.0	1041.0
50°	5624.4	3355.2	1307.6	1121.4	1083.1	1122.3	1101.7	1070.4	1022.4	992.9	990.0
52.5°	6208.6	3445.4	1222.3	1041.0	1035.1	1074.3	1044.9	1015.5	979.2	940.0	932.2
55°	6606.6	3462.1	1150.8	982.2	1002.7	998.8	988.0	961.6	942.0	890.0	891.0
57.5°	7051.6	3495.4	1091.9	946.9	982.2	939.0	935.1	912.6	887.1	851.8	840.0
60°	7583.8	3547.4	1041.0	933.2	964.5	899.8	880.2	871.4	845.9	828.3	833.2
62.5°	8164.1	3594.4	989.0	935.1	943.9	861.6	832.2	829.3	813.6	807.7	807.7
65°	8560.1	3466.0	924.3	933.2	911.6	822.4	785.1	784.2	771.4	769.5	768.5
67.5°	8421.9	3059.2	837.1	905.7	878.3	783.2	742.0	738.1	721.4	722.4	722.4
70°	7729.9	2478.9	716.5	838.1	837.1	747.9	696.9	684.2	661.6	665.6	669.5
72.5°	6432.1	1836.9	554.8	725.3	771.4	715.5	645.0	624.4	596.0	599.9	598.9
75°	4645.2	1248.8	403.8	551.9	671.4	677.3	594.0	558.7	524.4	530.3	532.2
77.5°	2377.0	707.7	297.0	380.3	527.3	615.6	547.9	500.9	493.0	547.9	540.1
80°	775.3	354.8	205.8	266.6	346.0	503.8	480.3	426.4	424.4	437.2	375.4
82.5°	231.3	150.0	132.3	175.5	191.1	386.2	414.6	322.5	277.4	292.1	301.9
85°	79.4	72.5	75.5	87.2	91.2	226.4	290.1	213.7	201.9	222.5	219.6
87.5°	18.6	25.5	21.6	19.6	19.6	54.9	112.7	89.2	123.5	82.3	79.4
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)