

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: P949500

Luminaire Tested: **GALN-SB4B-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20458 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

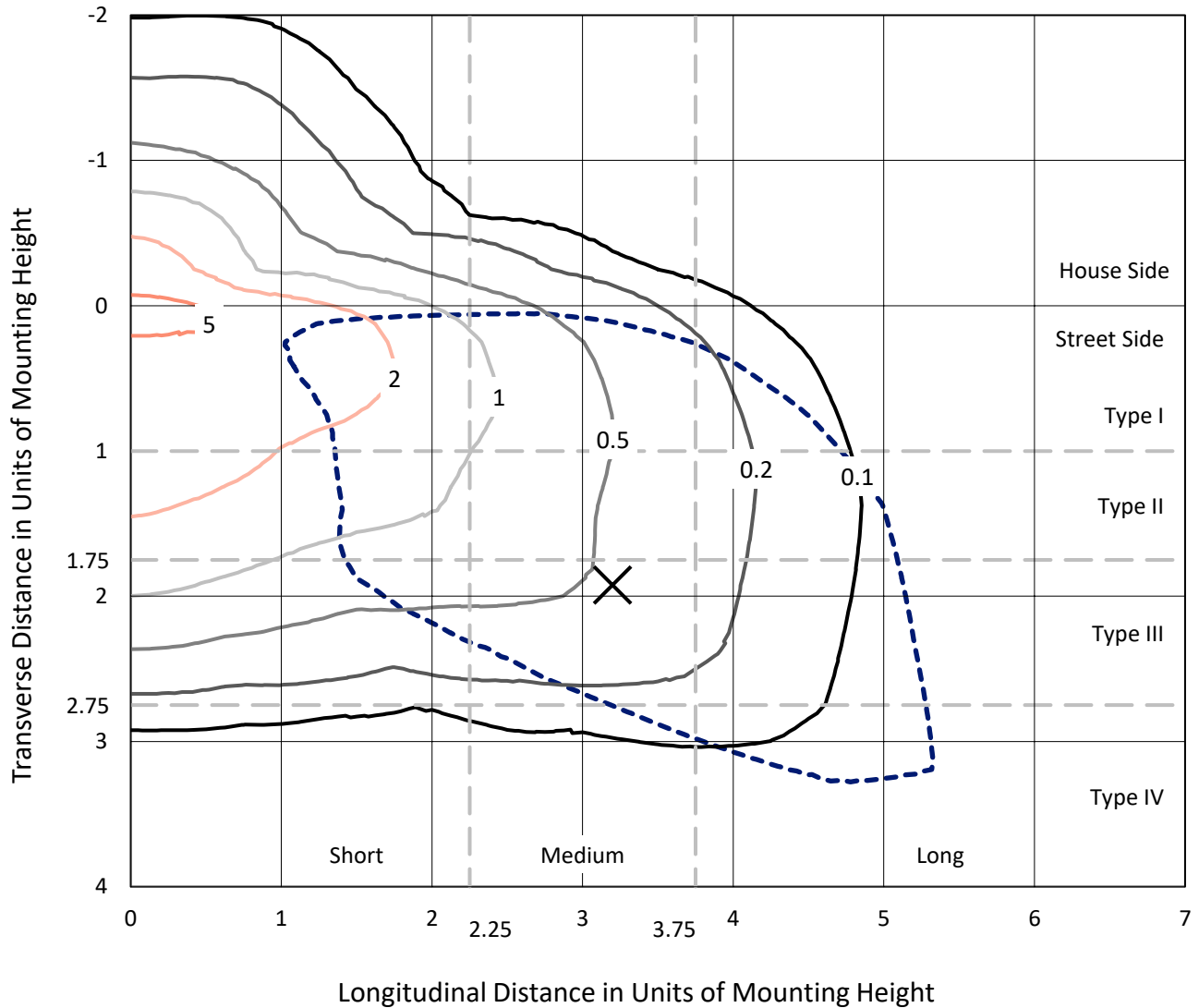
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

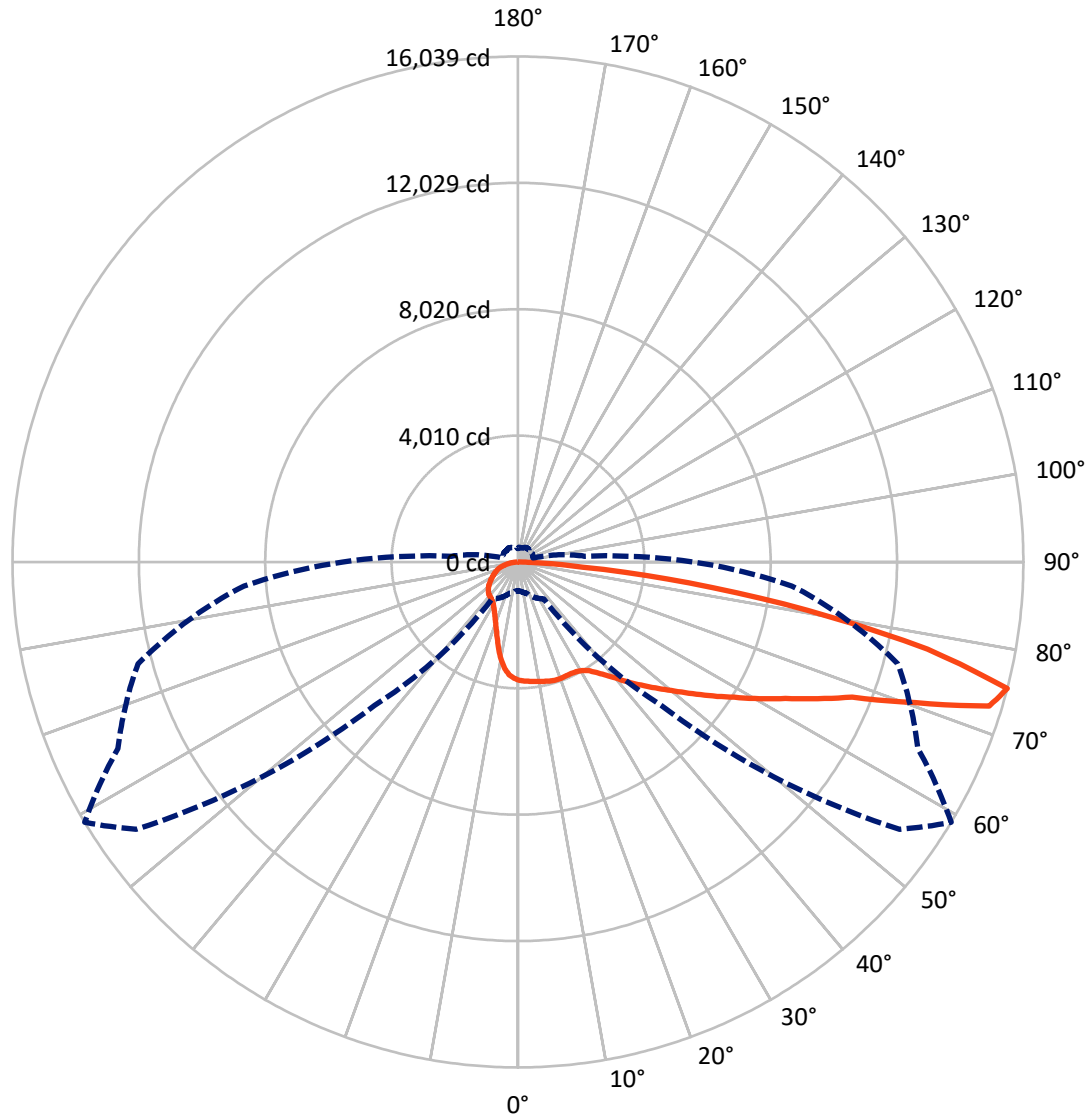
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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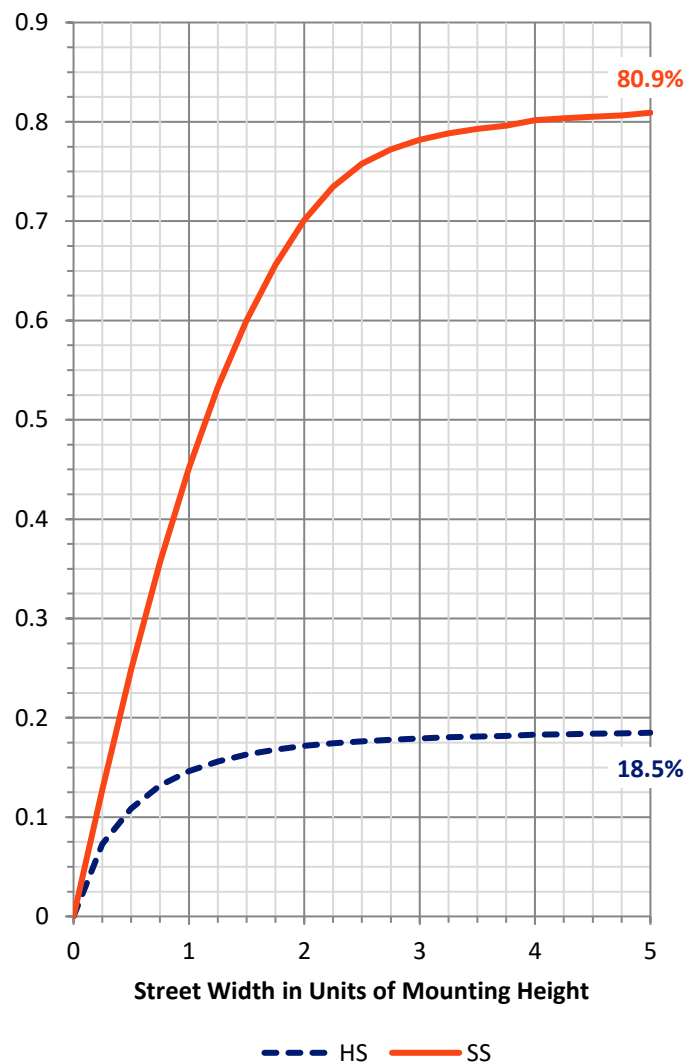
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3837.0	0.0	3837.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16621.0	0.0	16621.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	20458.0	0.0	20458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	1.6
10°-20°	860.6	4.2
20°-30°	1307.2	6.4
30°-40°	1943.1	9.5
40°-50°	2889.8	14.1
50°-60°	3922.6	19.2
60°-70°	4788.8	23.4
70°-80°	3758.2	18.4
80°-90°	651.0	3.2
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°	20458.0	100.0
0°-180°	20458.0	100.0

Coefficient of Utilization



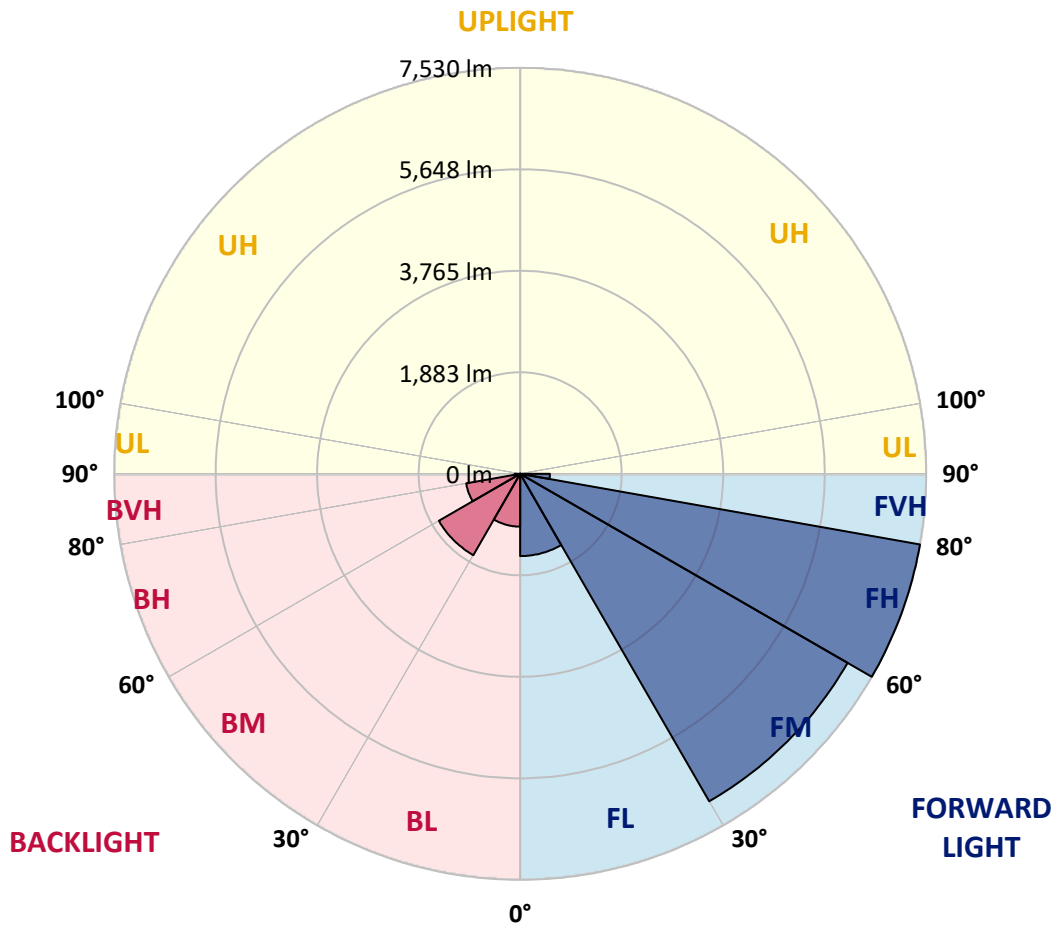
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1525.4	7.5			
FM (30°-60°)	7013.9	34.3			
FH (60°-80°)	7530.4	36.8			G4/12000
FVH (80°-90°)	551.4	2.7			G4/750
BL (0°-30°)	979.2	4.8	B2/1000		
BM (30°-60°)	1741.6	8.5	B2/2500		
BH (60°-80°)	1016.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	99.7	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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0
2.5°	3786.9	3773.7	3786.9	3781.4	3779.2	3774.8	3775.9	3783.6	3779.2	3784.7	3766.0
5°	3761.6	3753.9	3767.1	3763.8	3778.1	3780.3	3794.6	3803.4	3808.9	3810.0	3795.7
7.5°	3719.8	3712.1	3730.8	3746.2	3777.0	3785.8	3815.5	3829.9	3837.6	3850.8	3829.9
10°	3566.8	3563.5	3609.7	3668.1	3740.7	3785.8	3831.0	3855.2	3867.3	3902.5	3878.3
12.5°	3296.1	3300.5	3361.0	3473.3	3618.6	3763.8	3848.6	3883.8	3902.5	3946.5	3935.5
15°	3037.5	3036.4	3102.4	3222.4	3426.0	3667.0	3857.4	3917.9	3949.8	4014.7	4005.9
17.5°	2887.8	2883.4	2929.6	3021.0	3210.3	3518.4	3835.4	3936.6	4004.8	4086.3	4078.6
20°	2860.3	2851.5	2875.7	2920.8	3055.1	3355.5	3778.1	3936.6	4048.9	4154.5	4150.1
22.5°	2960.4	2946.1	2936.2	2930.7	2990.1	3221.3	3713.2	3923.4	4113.8	4252.5	4244.8
25°	3161.8	3139.8	3089.2	3039.7	3022.1	3160.7	3656.0	3920.1	4210.6	4384.5	4355.9
27.5°	3487.6	3460.1	3357.7	3238.9	3132.1	3191.5	3630.7	3939.9	4317.4	4524.3	4467.1
30°	3891.5	3861.8	3733.0	3550.3	3358.8	3306.0	3662.6	3998.2	4453.9	4710.3	4598.0
32.5°	4253.6	4220.5	4110.5	3924.5	3665.9	3504.1	3763.8	4109.4	4668.5	4968.9	4795.0
35°	4574.9	4536.4	4437.4	4265.7	4042.3	3782.5	3946.5	4306.4	4973.3	5389.3	5062.5
37.5°	4889.7	4844.5	4736.7	4555.1	4398.8	4153.4	4198.5	4559.5	5378.3	5900.0	5416.8
40°	5241.8	5176.9	5045.9	4866.6	4714.7	4588.1	4529.8	4869.9	5789.9	6470.0	5859.2
42.5°	5583.0	5521.4	5365.1	5212.1	5021.7	4985.4	4913.9	5233.0	6240.0	7096.2	6308.3
45°	5950.6	5876.8	5687.6	5493.9	5373.9	5249.5	5285.9	5596.2	6681.3	7734.5	6779.3
47.5°	6295.1	6212.5	5989.1	5773.4	5707.4	5471.9	5627.0	5995.7	7140.3	8381.7	7245.9
50°	6481.0	6399.6	6213.6	6018.8	5967.1	5745.9	5996.8	6434.8	7621.2	9026.6	7693.8
52.5°	6636.2	6548.2	6305.0	6197.1	6181.7	6044.1	6452.4	6936.7	8102.1	9596.7	8126.3
55°	6801.3	6703.3	6393.0	6296.2	6366.6	6378.7	6992.8	7505.6	8610.6	10152.4	8534.6
57.5°	6991.7	6867.3	6477.7	6379.8	6547.1	6770.5	7613.5	8095.5	9110.2	10667.5	8897.8
60°	7171.1	7045.6	6640.6	6513.0	6741.9	7225.0	8325.5	8809.8	9675.9	11126.4	9241.2
62.5°	7206.3	7102.8	6770.5	6769.4	7006.0	7755.5	9168.5	9530.6	10170.0	11579.8	9549.3
65°	6596.6	6531.7	6334.7	6759.5	7384.6	8519.2	10107.3	10452.9	10798.4	11976.0	9820.1
67.5°	5020.6	5029.4	5015.1	5835.0	7078.6	9616.5	11466.5	11440.0	11574.3	12420.6	10131.5
70°	2295.7	2347.4	2684.2	4028.0	5671.0	9743.0	13713.7	13371.5	12548.3	12996.2	10401.1
72.5°	1240.3	1279.9	1417.5	1951.2	3409.5	8662.3	15393.2	15636.4	13843.6	13383.6	10105.1
75°	910.1	932.2	1027.9	1240.3	1431.8	6438.1	14791.2	16039.2	14005.4	12480.0	8726.1
77.5°	681.2	691.1	769.3	982.8	733.0	3394.0	11818.6	13283.4	11989.2	10253.7	6445.8
80°	494.1	505.1	563.5	737.4	513.9	1241.4	8115.3	9323.7	8211.1	6536.1	3212.5
82.5°	341.2	345.6	370.9	501.8	358.8	482.0	4604.6	5467.5	4583.7	2293.5	867.2
85°	205.8	211.3	222.3	292.7	203.6	228.9	1987.6	2055.8	1370.2	548.1	269.6
87.5°	84.7	90.2	99.0	123.3	80.3	63.8	328.0	411.6	256.4	160.7	83.6
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°	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0	3755.0
2.5°	3760.5	3752.8	3731.9	3703.3	3676.9	3643.9	3629.6	3617.5	3606.4	3585.5	3575.6
5°	3783.6	3762.7	3706.6	3634.0	3551.4	3461.2	3373.1	3312.6	3260.9	3222.4	3190.4
7.5°	3818.9	3779.2	3676.9	3528.3	3339.0	3145.3	2970.3	2846.0	2752.4	2718.3	2658.9
10°	3855.2	3807.8	3629.6	3367.6	3040.8	2742.5	2510.3	2382.7	2307.8	2283.6	2246.2
12.5°	3898.1	3828.8	3555.8	3144.2	2707.3	2380.5	2178.0	2103.1	2064.6	2051.4	2054.7
15°	3960.8	3846.4	3444.7	2864.7	2389.3	2116.3	1985.4	1933.6	1913.8	1912.7	1917.1
17.5°	4008.1	3849.7	3271.9	2565.3	2144.9	1956.7	1848.9	1829.1	1842.3	1862.1	1869.8
20°	4061.0	3820.0	3045.2	2292.4	1973.3	1817.0	1771.9	1785.1	1817.0	1845.6	1855.5
22.5°	4098.4	3766.0	2771.1	2080.0	1824.7	1736.6	1734.4	1762.0	1779.6	1793.9	1801.6
25°	4131.4	3674.7	2480.6	1901.7	1702.5	1688.2	1712.4	1703.6	1691.5	1703.6	1711.3
27.5°	4155.6	3530.5	2220.9	1745.4	1616.7	1655.2	1640.9	1621.1	1620.0	1626.6	1637.6
30°	4147.9	3337.9	2007.4	1596.9	1556.2	1593.6	1559.5	1556.2	1552.9	1556.2	1568.3
32.5°	4147.9	3118.9	1843.4	1494.5	1517.6	1503.3	1500.0	1492.3	1479.1	1478.0	1492.3
35°	4171.0	2899.9	1702.5	1439.5	1485.7	1451.6	1453.8	1435.1	1407.6	1394.4	1407.6
37.5°	4218.3	2723.8	1562.8	1413.1	1429.6	1428.5	1419.7	1387.8	1339.3	1297.5	1311.8
40°	4332.8	2672.1	1467.0	1401.0	1403.2	1416.4	1393.3	1331.6	1221.6	1153.4	1162.2
42.5°	4512.2	2759.0	1446.1	1371.3	1385.6	1398.8	1353.7	1210.6	1132.4	1091.7	1091.7
45°	4740.0	2910.9	1491.2	1328.3	1343.8	1366.9	1232.6	1164.4	1129.1	1130.2	1135.8
47.5°	5028.3	3070.5	1574.9	1290.9	1283.2	1296.4	1152.3	1110.4	1062.0	1074.1	1104.9
50°	5361.8	3232.3	1654.1	1240.3	1216.1	1173.2	1100.5	1060.9	999.3	970.7	978.4
52.5°	5722.8	3388.5	1686.0	1178.7	1143.5	1093.9	1065.3	1016.9	942.1	894.7	893.6
55°	6065.0	3530.5	1650.8	1104.9	1070.8	1032.3	1027.9	998.2	917.8	851.8	851.8
57.5°	6388.6	3649.4	1562.8	1030.1	997.1	974.0	1003.7	989.4	888.1	803.4	799.0
60°	6662.6	3730.8	1435.1	954.2	931.1	918.9	964.1	959.7	846.3	751.7	748.4
62.5°	6880.5	3762.7	1294.2	881.5	876.0	854.0	909.0	909.0	793.5	701.0	697.7
65°	7051.1	3731.9	1151.2	810.0	821.0	788.0	841.9	835.3	737.4	655.9	651.5
67.5°	7201.9	3630.7	992.7	739.6	764.9	723.1	771.5	756.1	675.7	610.8	606.4
70°	7269.0	3395.1	812.2	669.1	699.9	659.2	701.0	672.4	606.4	562.4	553.6
72.5°	6729.8	2821.8	639.4	595.4	621.8	588.8	625.1	592.1	531.6	511.7	495.2
75°	5567.6	2117.4	491.9	515.0	534.9	509.5	533.8	509.5	454.5	468.8	428.1
77.5°	4043.4	1429.6	376.4	430.3	439.1	425.9	446.8	419.3	369.8	366.5	350.0
80°	2010.7	837.5	294.9	340.1	336.8	328.0	352.2	339.0	297.1	314.8	311.5
82.5°	582.2	358.8	214.6	238.8	232.2	234.4	252.0	258.6	387.4	384.1	392.9
85°	182.7	140.9	128.8	133.2	126.6	129.9	148.6	294.9	272.9	159.6	172.8
87.5°	47.3	48.4	31.9	34.1	35.2	41.8	47.3	179.4	85.8	56.1	59.4
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)