

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: P942807

Luminaire Tested: **GALN-SB7A-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29610 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 199.1
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

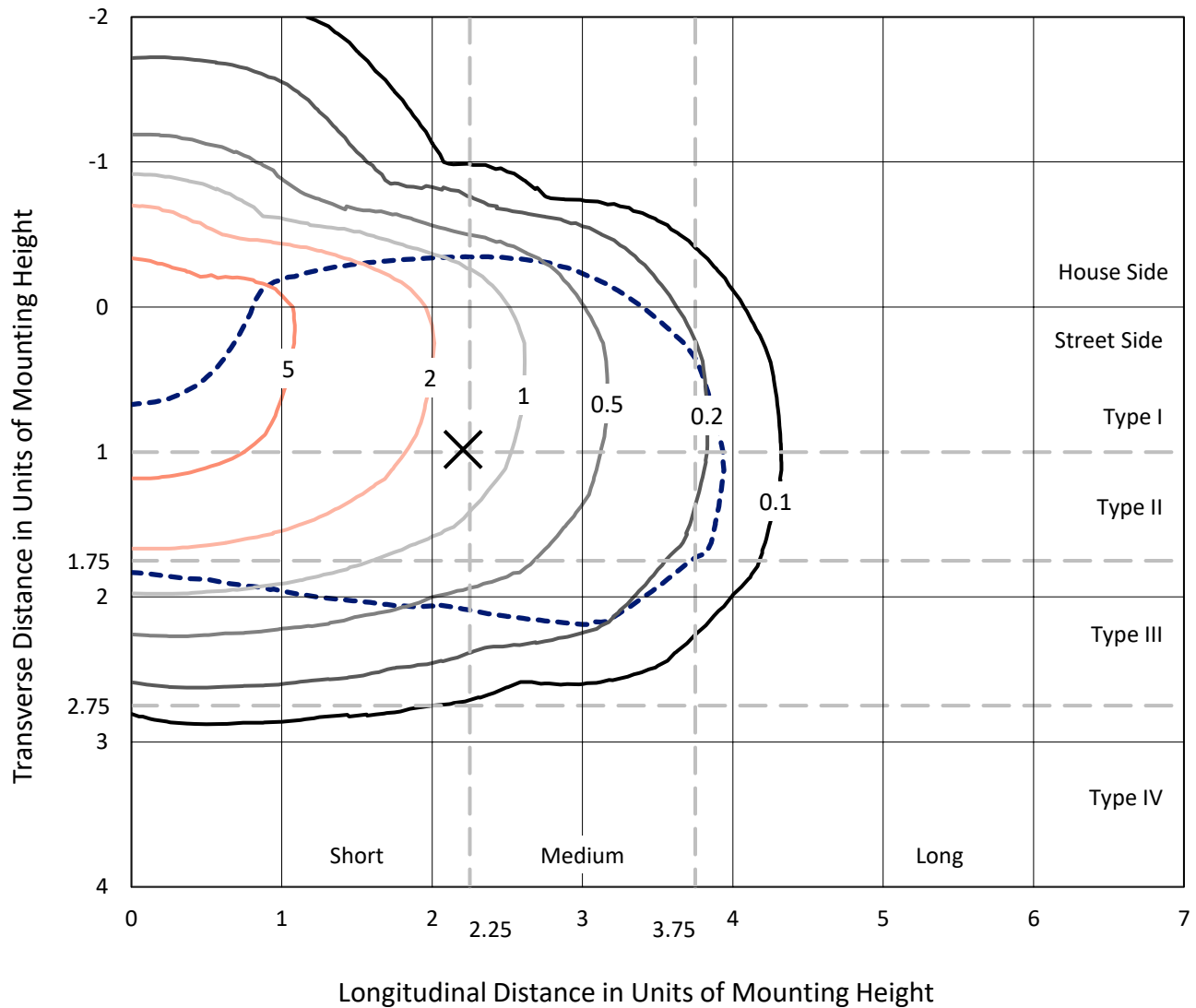


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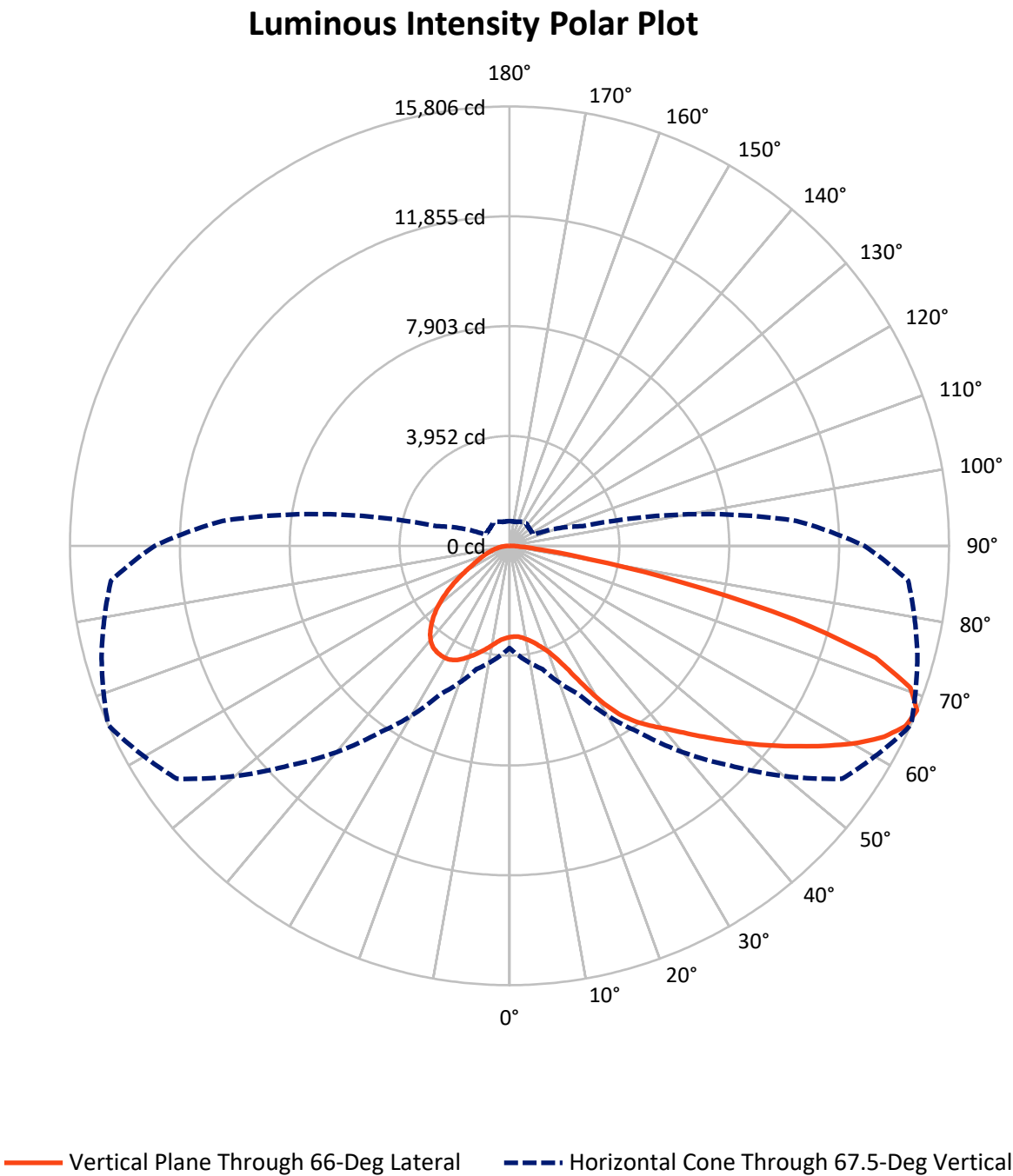
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7362.4	0.0	7362.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22247.6	0.0	22247.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	29610.0	0.0	29610.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	1.1
10°-20°	1075.8	3.6
20°-30°	2073.5	7.0
30°-40°	3635.6	12.3
40°-50°	5404.9	18.3
50°-60°	6851.3	23.1
60°-70°	6703.8	22.6
70°-80°	3197.8	10.8
80°-90°	341.8	1.2
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°	29610.0	100.0
0°-180°	29610.0	100.0

Coefficient of Utilization



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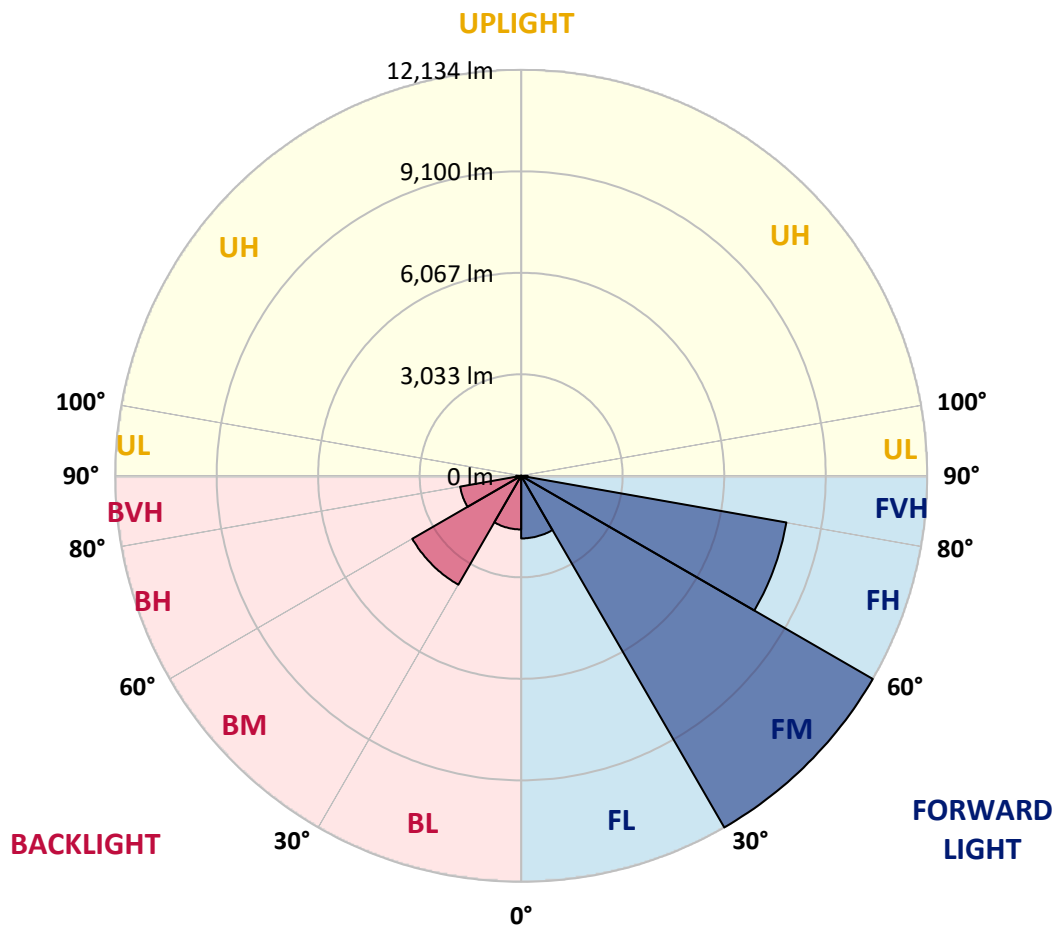
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1871.1	6.3			
FM	(30°-60°)	12133.9	41.0			
FH	(60°-80°)	8048.8	27.2			G4/12000
FVH	(80°-90°)	193.8	0.7			G2/225
BL	(0°-30°)	1603.8	5.4	B3/2500		
BM	(30°-60°)	3757.9	12.7	B3/5000		
BH	(60°-80°)	1852.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	148.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1
2.5°	3249.9	3268.6	3263.9	3256.1	3254.6	3257.7	3262.4	3267.0	3265.5	3273.3	3285.7
5°	3240.6	3259.2	3257.7	3257.7	3263.9	3276.4	3284.1	3291.9	3284.1	3293.5	3310.6
7.5°	3246.8	3260.8	3267.0	3273.3	3288.8	3312.1	3330.8	3347.9	3338.6	3349.5	3371.3
10°	3326.1	3337.0	3343.3	3343.3	3354.1	3380.6	3399.3	3430.4	3422.6	3439.7	3467.7
12.5°	3470.8	3481.7	3481.7	3475.5	3483.3	3500.4	3506.6	3540.8	3526.8	3554.8	3582.8
15°	3648.2	3670.0	3652.8	3642.0	3645.1	3662.2	3660.6	3687.1	3673.1	3696.4	3721.3
17.5°	3844.2	3872.2	3844.2	3842.6	3836.4	3855.1	3856.6	3880.0	3855.1	3872.2	3889.3
20°	4076.0	4114.9	4091.6	4099.3	4085.3	4093.1	4100.9	4135.1	4096.2	4108.7	4104.0
22.5°	4402.7	4449.4	4424.5	4454.0	4444.7	4438.5	4436.9	4497.6	4436.9	4441.6	4396.5
25°	4878.8	4934.8	4891.2	4931.7	4931.7	4951.9	4975.2	5053.0	4951.9	4922.3	4805.6
27.5°	5581.9	5638.0	5552.4	5577.3	5569.5	5619.3	5594.4	5787.3	5678.4	5630.2	5395.3
30°	6428.3	6527.8	6366.0	6359.8	6352.0	6431.4	6467.2	6594.7	6484.3	6436.0	6152.9
32.5°	7343.0	7447.3	7254.4	7198.4	7168.8	7217.0	7187.5	7290.1	7213.9	7139.2	6789.2
35°	8310.7	8413.4	8229.8	8120.9	8002.7	7901.5	7795.7	7822.2	7750.6	7637.1	7274.6
37.5°	9225.5	9413.7	9219.2	9102.6	8884.8	8687.2	8391.6	8268.7	8201.8	8097.6	7732.0
40°	10157.3	10264.7	10116.9	10017.3	9780.9	9471.3	8998.3	8738.5	8648.3	8547.2	8237.6
42.5°	10843.4	10946.1	10866.8	10798.3	10613.2	10253.8	9642.4	9317.3	9186.6	9073.0	8810.1
45°	11387.9	11464.2	11414.4	11439.3	11359.9	11011.4	10309.8	9938.0	9802.6	9664.2	9457.3
47.5°	11607.3	11688.2	11767.5	11915.3	12050.7	11794.0	11027.0	10610.1	10466.9	10325.4	10121.6
50°	11582.4	11664.8	11895.1	12209.3	12629.4	12543.8	11783.1	11325.7	11193.5	11031.7	10843.4
52.5°	11383.3	11476.6	11772.2	12294.9	12963.9	13105.4	12553.2	12064.7	11940.2	11747.3	11559.1
55°	10860.5	10916.5	11359.9	12100.4	13043.2	13497.5	13307.7	12851.9	12727.4	12458.3	12252.9
57.5°	9891.3	9972.2	10617.8	11576.2	12844.1	13763.5	13970.4	13679.5	13559.7	13172.3	12957.7
60°	8626.5	8755.6	9494.6	10695.6	12336.9	13762.0	14572.5	14493.2	14393.6	13875.5	13651.5
62.5°	7195.2	7344.6	8055.6	9451.0	11450.2	13371.5	14949.0	15174.6	15123.2	14524.3	14238.0
65°	5525.9	5628.6	6336.5	7840.9	10070.2	12532.9	14992.5	15639.7	15649.1	15017.4	14544.5
67.5°	3679.3	3974.9	4589.4	5883.8	8222.0	11162.3	14609.8	15716.0	15806.2	15187.0	14390.5
70°	1795.3	2184.2	2786.3	3824.0	5883.8	9060.6	13609.5	15090.6	15291.2	14692.3	13472.6
72.5°	745.2	871.2	1199.5	1887.1	3377.5	6114.0	11599.5	13394.8	13766.6	13018.3	11327.3
75°	502.5	544.5	686.1	967.7	1538.6	3015.0	8365.1	9987.8	10586.7	9832.2	8036.9
77.5°	387.4	413.8	499.4	676.7	914.8	1140.3	4477.4	6019.1	6328.7	5858.9	4181.8
80°	304.9	325.1	373.4	493.2	648.7	609.8	1526.2	2727.2	2906.1	2437.8	1344.1
82.5°	264.5	272.3	267.6	334.5	430.9	356.3	500.9	1006.6	1110.8	805.9	438.7
85°	191.4	213.1	222.5	206.9	228.7	180.5	205.4	356.3	392.0	350.0	247.4
87.5°	77.8	115.1	141.6	133.8	84.0	51.3	63.8	104.2	119.8	130.7	80.9
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°	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1	3284.1
2.5°	3287.3	3298.1	3305.9	3315.3	3321.5	3330.8	3349.5	3360.4	3361.9	3369.7	3368.1
5°	3316.8	3332.4	3349.5	3374.4	3402.4	3425.7	3461.5	3486.4	3495.7	3503.5	3501.9
7.5°	3380.6	3402.4	3433.5	3477.1	3517.5	3548.6	3592.2	3621.7	3651.3	3662.2	3663.7
10°	3475.5	3506.6	3551.7	3610.8	3654.4	3694.9	3740.0	3764.9	3794.4	3806.9	3813.1
12.5°	3593.7	3626.4	3685.5	3768.0	3808.4	3836.4	3852.0	3845.8	3852.0	3862.9	3866.0
15°	3729.1	3764.9	3831.8	3920.4	3948.4	3923.5	3889.3	3858.2	3853.5	3856.6	3867.5
17.5°	3889.3	3915.8	3993.6	4068.2	4048.0	3945.3	3870.6	3820.9	3796.0	3788.2	3799.1
20°	4113.3	4113.3	4177.1	4223.8	4088.5	3914.2	3797.5	3716.6	3665.3	3643.5	3638.8
22.5°	4385.6	4360.7	4401.2	4368.5	4080.7	3827.1	3665.3	3525.3	3447.5	3416.4	3411.7
25°	4731.0	4701.4	4690.5	4488.3	4024.7	3688.6	3425.7	3256.1	3187.7	3170.6	3173.7
27.5°	5252.1	5177.5	5035.9	4553.6	3922.0	3470.8	3145.7	2988.6	2949.7	2951.2	2955.9
30°	5946.0	5796.6	5449.7	4564.5	3754.0	3162.8	2859.4	2747.4	2728.7	2736.5	2763.0
32.5°	6588.5	6446.9	5872.9	4514.7	3495.7	2861.0	2602.7	2528.1	2500.1	2509.4	2521.8
35°	7092.6	7053.7	6264.9	4444.7	3178.4	2577.8	2372.5	2308.7	2254.2	2241.8	2251.1
37.5°	7568.6	7553.1	6558.9	4346.7	2864.1	2377.2	2187.4	2103.3	2024.0	1980.4	1982.0
40°	8091.3	8075.8	6751.9	4195.8	2585.6	2202.9	2020.9	1910.4	1812.4	1733.1	1740.9
42.5°	8679.4	8587.6	6843.6	3979.6	2349.1	2055.1	1885.5	1736.2	1607.1	1533.9	1538.6
45°	9321.9	9115.0	6842.1	3704.2	2150.0	1919.8	1740.9	1529.3	1409.5	1341.0	1337.9
47.5°	10003.3	9619.1	6758.1	3399.3	1957.1	1770.4	1516.8	1355.0	1275.7	1233.7	1224.4
50°	10706.5	10090.4	6615.0	3049.2	1759.5	1600.8	1376.8	1266.4	1205.7	1166.8	1152.8
52.5°	11367.7	10518.3	6442.3	2652.5	1558.8	1435.9	1314.6	1229.0	1165.2	1121.7	1103.0
55°	11982.2	10887.0	6198.0	2246.5	1395.5	1325.5	1285.0	1213.5	1140.3	1089.0	1068.8
57.5°	12528.3	11126.6	5776.4	1865.3	1278.8	1249.2	1253.9	1187.0	1103.0	1059.5	1031.4
60°	12982.5	11302.4	5152.6	1512.2	1183.9	1174.6	1205.7	1137.2	1039.2	989.4	967.7
62.5°	13254.8	11299.2	4387.2	1238.4	1103.0	1106.1	1141.9	1075.0	975.4	928.8	914.8
65°	13231.5	11022.3	3547.1	1059.5	1025.2	1028.3	1075.0	1006.6	922.5	894.5	893.0
67.5°	12763.2	10347.1	2721.0	942.8	939.7	953.7	1008.1	959.9	889.9	886.8	891.4
70°	11495.3	8945.4	1960.2	849.4	851.0	871.2	942.8	930.3	872.8	879.0	877.4
72.5°	9217.7	6820.3	1316.1	751.4	753.0	785.6	880.5	907.0	855.7	938.1	950.5
75°	6138.9	4253.4	846.3	647.2	648.7	690.7	826.1	861.9	809.0	935.0	942.8
77.5°	2949.7	1912.0	613.0	544.5	544.5	583.4	714.1	771.6	689.2	726.5	665.9
80°	1019.0	718.7	482.3	438.7	429.4	455.8	602.1	669.0	594.3	547.6	513.4
82.5°	401.4	373.4	387.4	340.7	309.6	326.7	468.3	552.3	437.2	395.2	393.6
85°	230.2	242.7	273.8	225.6	178.9	200.7	343.8	396.7	329.8	290.9	297.1
87.5°	62.2	85.6	126.0	116.7	80.9	85.6	163.4	219.4	189.8	146.2	150.9
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)