

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: P952368

Luminaire Tested: **GALN-SB6B-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31611 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

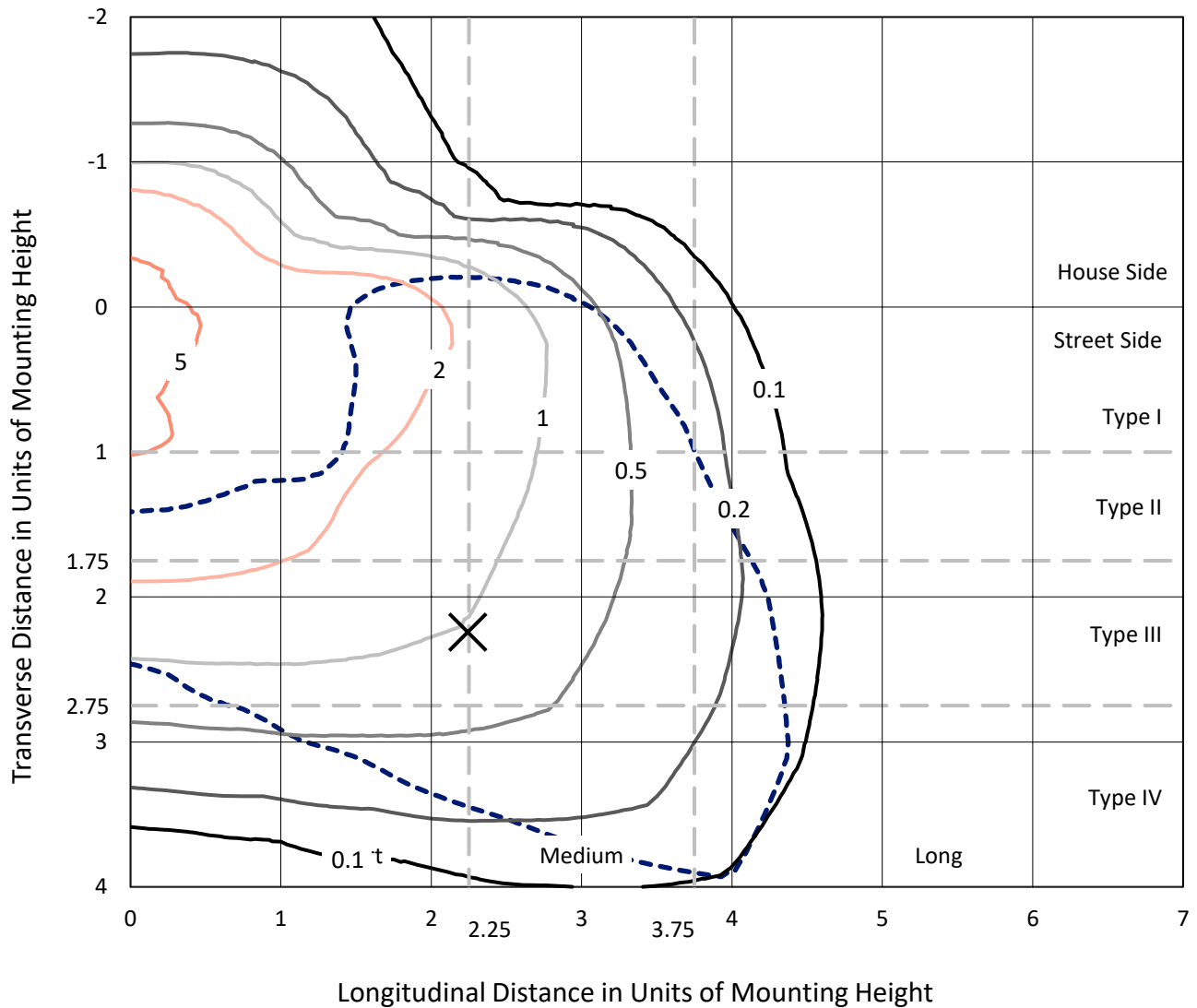
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

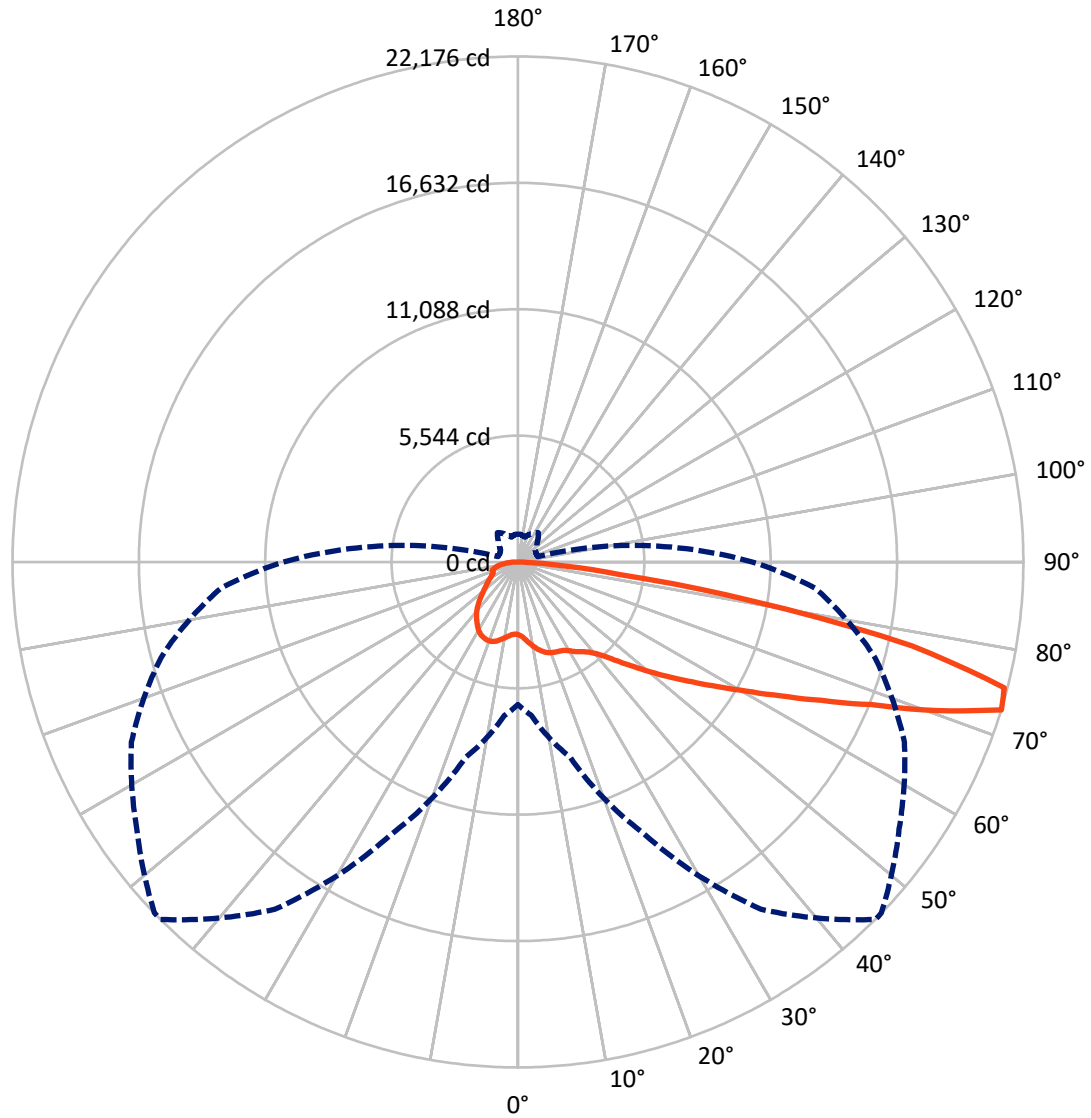
✕ Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SB6B-727-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7146.2	0.0	7146.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24464.8	0.0	24464.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	31611.0	0.0	31611.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.6	1.0
10°-20°	1082.2	3.4
20°-30°	1882.5	6.0
30°-40°	2698.6	8.5
40°-50°	3799.8	12.0
50°-60°	5820.2	18.4
60°-70°	8431.5	26.7
70°-80°	6733.0	21.3
80°-90°	838.6	2.7
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°	31611.0	100.0
0°-180°	31611.0	100.0



REPORT NUMBER: P952368

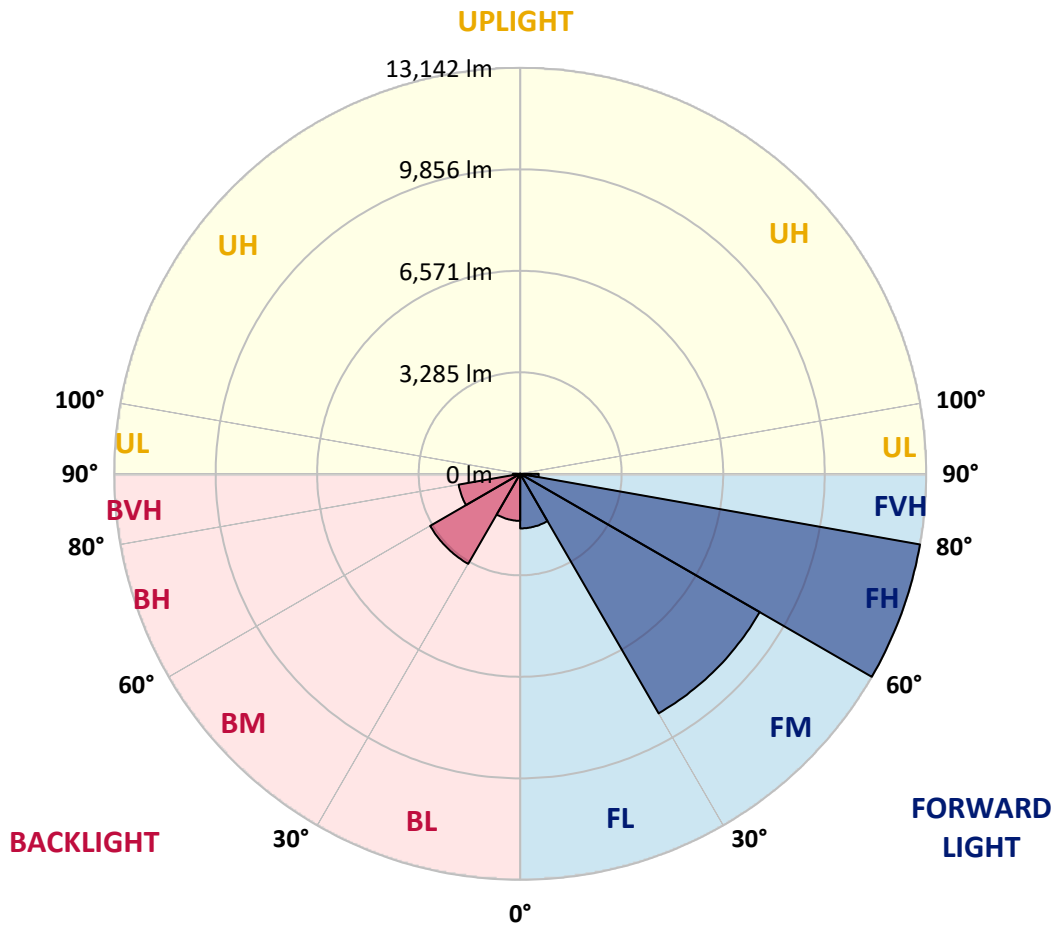
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1767.7	5.6			
FM (30°-60°)	8953.9	28.3			
FH (60°-80°)	13141.6	41.6			G5
FVH (80°-90°)	601.6	1.9			G4/750
BL (0°-30°)	1521.5	4.8	B3/2500		
BM (30°-60°)	3364.8	10.6	B3/5000		
BH (60°-80°)	2022.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	237.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9
2.5°	3313.8	3335.5	3315.5	3297.2	3288.8	3267.2	3265.5	3252.2	3243.9	3220.6	3213.9
5°	3545.3	3573.6	3540.3	3503.7	3470.4	3417.1	3410.4	3372.1	3328.8	3278.9	3250.5
7.5°	3806.7	3831.7	3793.4	3738.5	3680.2	3591.9	3590.3	3520.3	3452.0	3367.1	3318.8
10°	4034.9	4068.2	4016.6	3941.6	3868.4	3768.4	3756.8	3676.8	3590.3	3480.4	3407.1
12.5°	4236.4	4259.7	4209.7	4118.1	4033.2	3933.3	3918.3	3830.1	3733.5	3608.6	3515.3
15°	4396.2	4426.2	4359.6	4261.3	4171.4	4073.2	4059.9	3979.9	3883.3	3751.8	3631.9
17.5°	4501.1	4526.1	4457.8	4347.9	4261.3	4179.8	4169.8	4103.2	4018.2	3885.0	3756.8
20°	4541.1	4567.8	4496.1	4384.6	4304.6	4241.4	4236.4	4188.1	4129.8	4008.2	3878.3
22.5°	4581.1	4606.1	4512.8	4396.2	4326.3	4286.3	4284.7	4253.0	4229.7	4129.8	4003.2
25°	4742.6	4749.3	4624.4	4456.2	4356.3	4321.3	4319.6	4318.0	4328.0	4249.7	4138.1
27.5°	4882.5	4880.8	4774.2	4616.0	4461.2	4387.9	4386.2	4402.9	4434.5	4369.6	4278.0
30°	5087.3	5069.0	4942.4	4777.6	4636.0	4522.8	4512.8	4497.8	4522.8	4471.2	4417.9
32.5°	5521.9	5463.7	5258.8	4965.7	4780.9	4694.3	4681.0	4587.7	4597.7	4566.1	4539.4
35°	6144.7	6068.1	5795.0	5322.1	4960.8	4837.5	4830.9	4712.6	4692.6	4664.3	4674.3
37.5°	6885.8	6790.8	6472.8	5838.3	5270.5	5004.0	4994.1	4887.5	4805.9	4775.9	4832.5
40°	7630.1	7510.2	7247.1	6467.8	5726.8	5282.1	5250.5	5089.0	4995.7	4945.8	5065.7
42.5°	8352.8	8252.9	8028.1	7173.9	6289.6	5688.5	5618.5	5342.1	5272.1	5225.5	5442.0
45°	8992.3	8902.4	8737.5	7928.2	6949.0	6241.3	6173.0	5721.8	5700.1	5700.1	6013.2
47.5°	9511.9	9491.9	9317.0	8697.5	7726.7	6870.8	6752.5	6249.6	6307.9	6397.9	6824.2
50°	10088.0	10033.1	9846.6	9455.2	8640.9	7591.8	7495.2	6897.4	7115.6	7362.0	7996.5
52.5°	10617.6	10647.5	10439.4	10244.6	9673.4	8396.1	8226.3	7661.8	8133.0	8541.0	9370.3
55°	11162.1	11163.8	11105.5	11078.8	10755.8	9285.4	9098.9	8581.0	9330.3	9836.6	10972.3
57.5°	11673.3	11676.7	11763.3	11998.1	12011.4	10311.2	10099.7	9710.0	10660.9	11177.1	12624.2
60°	12129.6	12152.9	12389.4	12938.9	13115.4	11486.8	11287.0	11043.9	12036.4	12555.9	14361.0
62.5°	12282.8	12367.7	12894.0	13675.0	14206.2	12928.9	12732.4	12587.5	13481.8	13964.7	15813.1
65°	12023.0	12217.9	13235.3	14282.8	15328.5	14642.5	14447.6	14289.4	14983.8	15438.4	17005.4
67.5°	11385.2	11636.7	13215.3	14920.6	16690.7	16704.0	16522.5	16151.2	16594.1	16769.0	17393.4
70°	9705.0	10081.4	12051.3	15158.7	18254.4	19523.3	19348.4	18392.6	18201.1	17355.1	16301.0
72.5°	6253.0	6759.2	8874.1	13198.7	18602.4	22176.0	22166.0	20415.8	18709.0	16216.1	13073.8
75°	2281.4	2591.1	4123.1	8284.6	15615.0	22041.1	22106.1	20069.5	17078.7	12525.9	8144.7
77.5°	831.0	909.2	1345.5	3183.9	9603.4	17684.8	17819.7	16044.6	12156.3	6286.3	3227.2
80°	436.3	479.6	689.4	1235.6	4114.8	10502.7	10714.2	9535.2	5713.4	1893.4	967.5
82.5°	241.5	261.4	386.3	671.1	1853.4	4491.2	4617.7	3766.8	2009.9	802.6	399.7
85°	129.9	138.2	181.5	366.4	905.9	1557.0	1592.0	1125.7	801.0	471.3	193.2
87.5°	38.3	46.6	59.9	116.6	354.7	349.7	358.0	223.1	316.4	238.1	63.3
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°	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9	3188.9
2.5°	3203.9	3198.9	3180.6	3172.3	3162.3	3160.6	3169.0	3170.6	3172.3	3173.9	3180.6
5°	3233.9	3217.2	3200.6	3190.6	3193.9	3195.6	3212.2	3223.9	3232.2	3238.9	3242.2
7.5°	3292.2	3278.9	3250.5	3248.9	3253.9	3268.9	3290.5	3317.2	3332.1	3343.8	3347.1
10°	3378.8	3353.8	3320.5	3325.5	3335.5	3357.1	3402.1	3423.7	3448.7	3470.4	3465.4
12.5°	3467.0	3445.4	3407.1	3410.4	3427.1	3465.4	3508.7	3535.3	3552.0	3568.6	3575.3
15°	3581.9	3543.6	3502.0	3502.0	3532.0	3573.6	3593.6	3615.2	3625.2	3643.5	3650.2
17.5°	3700.2	3650.2	3595.3	3591.9	3628.6	3648.5	3660.2	3663.5	3666.9	3686.8	3693.5
20°	3818.4	3763.4	3685.2	3678.5	3686.8	3683.5	3681.8	3678.5	3683.5	3708.5	3718.5
22.5°	3935.0	3871.7	3763.4	3733.5	3710.2	3678.5	3676.8	3675.2	3678.5	3703.5	3720.1
25°	4071.5	3994.9	3850.0	3760.1	3681.8	3638.5	3643.5	3645.2	3648.5	3668.5	3695.2
27.5°	4219.7	4134.8	3930.0	3751.8	3610.2	3580.3	3571.9	3576.9	3588.6	3620.2	3651.9
30°	4367.9	4268.0	4003.2	3718.5	3520.3	3478.7	3452.0	3463.7	3500.3	3532.0	3566.9
32.5°	4502.8	4402.9	4061.5	3645.2	3405.4	3340.5	3305.5	3320.5	3357.1	3368.8	3410.4
35°	4661.0	4547.8	4086.5	3528.6	3280.5	3180.6	3134.0	3112.3	3130.7	3119.0	3155.6
37.5°	4837.5	4719.3	4083.2	3375.4	3134.0	3019.1	2954.1	2872.5	2834.2	2794.3	2819.3
40°	5099.0	4929.1	4043.2	3190.6	2952.5	2847.6	2731.0	2592.8	2506.2	2427.9	2432.9
42.5°	5455.3	5220.5	3969.9	2987.4	2747.6	2649.4	2491.2	2329.7	2193.1	2063.2	2051.6
45°	5986.5	5601.9	3878.3	2771.0	2526.2	2429.6	2258.1	2076.6	1921.7	1755.2	1735.2
47.5°	6752.5	6114.8	3791.8	2524.5	2293.0	2204.8	2049.9	1881.7	1698.5	1537.0	1518.7
50°	7805.0	6850.8	3711.8	2284.7	2063.2	1996.6	1873.4	1701.9	1517.0	1387.1	1378.8
52.5°	9143.8	7851.6	3678.5	2053.2	1848.4	1823.4	1725.2	1565.3	1390.5	1280.6	1272.2
55°	10680.8	9048.9	3678.5	1831.8	1660.2	1668.6	1600.3	1452.1	1300.6	1202.3	1192.3
57.5°	12249.5	10261.2	3611.9	1626.9	1500.4	1535.4	1492.1	1362.2	1225.6	1124.0	1107.4
60°	13694.9	11277.0	3342.1	1440.4	1358.8	1413.8	1385.5	1273.9	1107.4	1022.5	1009.1
62.5°	14805.6	11849.8	2822.6	1292.2	1242.3	1305.5	1290.6	1157.3	1085.7	1050.8	1039.1
65°	15361.8	11756.6	2158.2	1160.7	1144.0	1242.3	1210.6	1205.6	1149.0	1109.0	1095.7
67.5°	15020.5	10953.9	1565.3	1064.1	1087.4	1184.0	1305.5	1325.5	1220.6	1142.4	1129.0
70°	13523.4	9501.9	1165.7	972.5	1015.8	1185.7	1488.7	1387.1	1197.3	1105.7	1090.7
72.5°	10287.9	7085.6	904.2	875.9	922.5	1194.0	1570.3	1358.8	1130.7	1222.3	1212.3
75°	5883.3	3890.0	726.0	757.7	806.0	1115.7	1528.7	1285.6	1079.1	1122.4	1122.4
77.5°	2243.1	1495.4	599.5	641.1	647.8	974.2	1462.1	1280.6	1027.5	1002.5	914.2
80°	777.7	584.5	496.2	509.6	501.2	865.9	1402.1	1114.0	840.9	752.7	727.7
82.5°	318.1	291.4	393.0	376.3	356.4	672.8	1132.4	910.9	687.7	607.8	601.2
85°	138.2	184.8	259.8	228.1	206.5	466.3	907.6	771.0	581.2	501.2	499.6
87.5°	28.3	69.9	109.9	103.2	106.6	311.4	644.4	547.9	411.3	308.1	241.5
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)