

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: P949141

Luminaire Tested: **GALN-SB4A-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16574 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

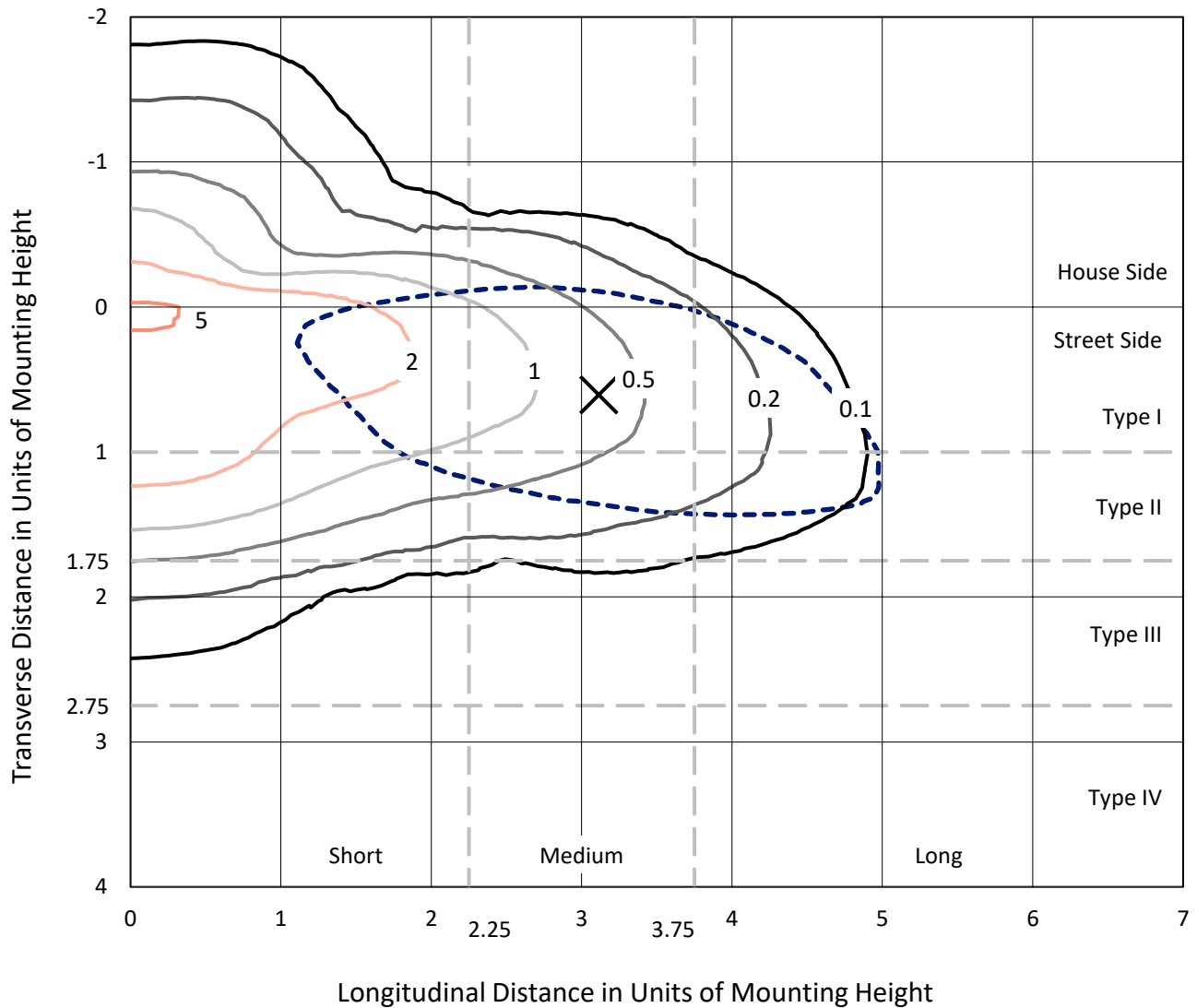
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

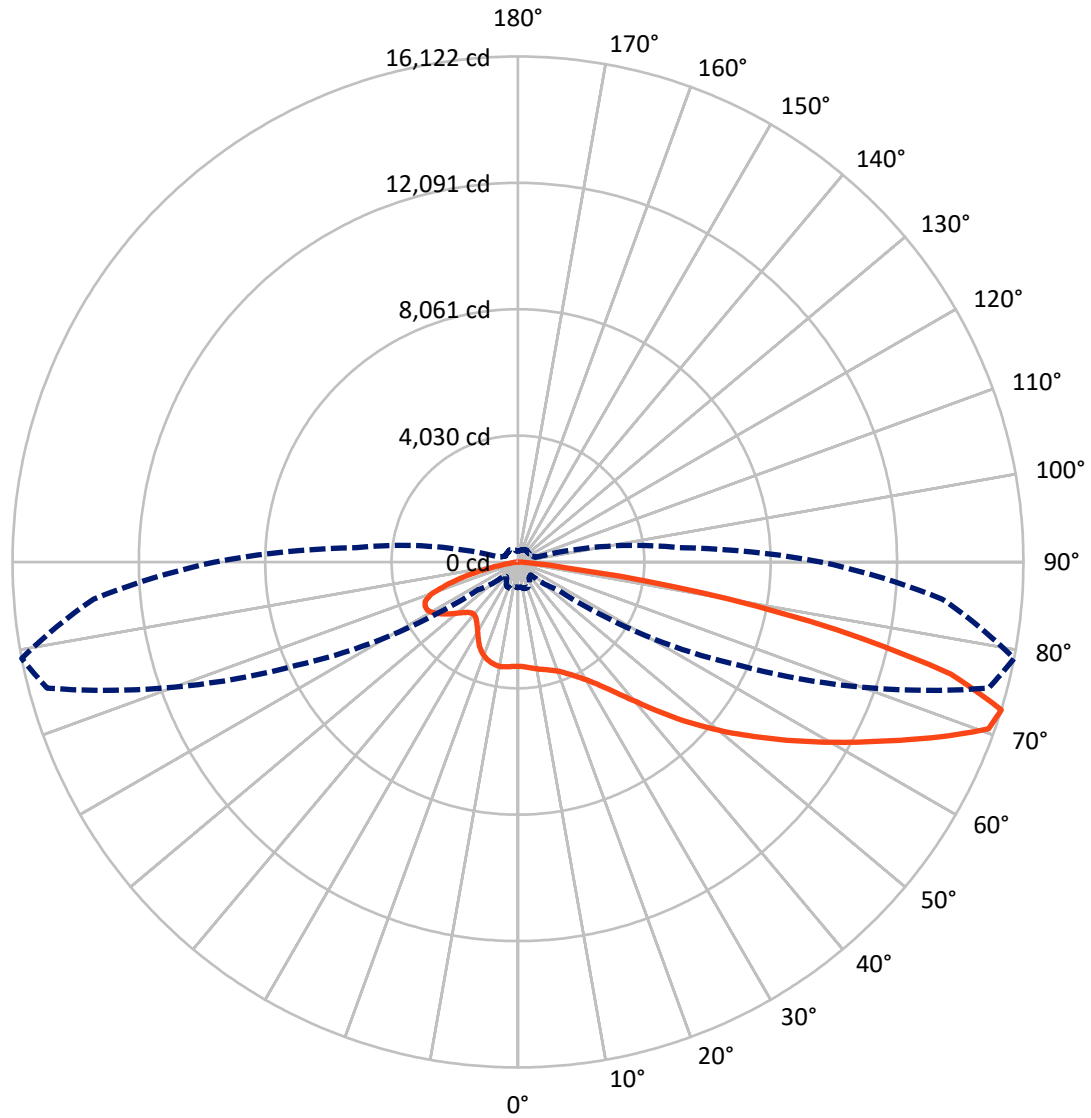
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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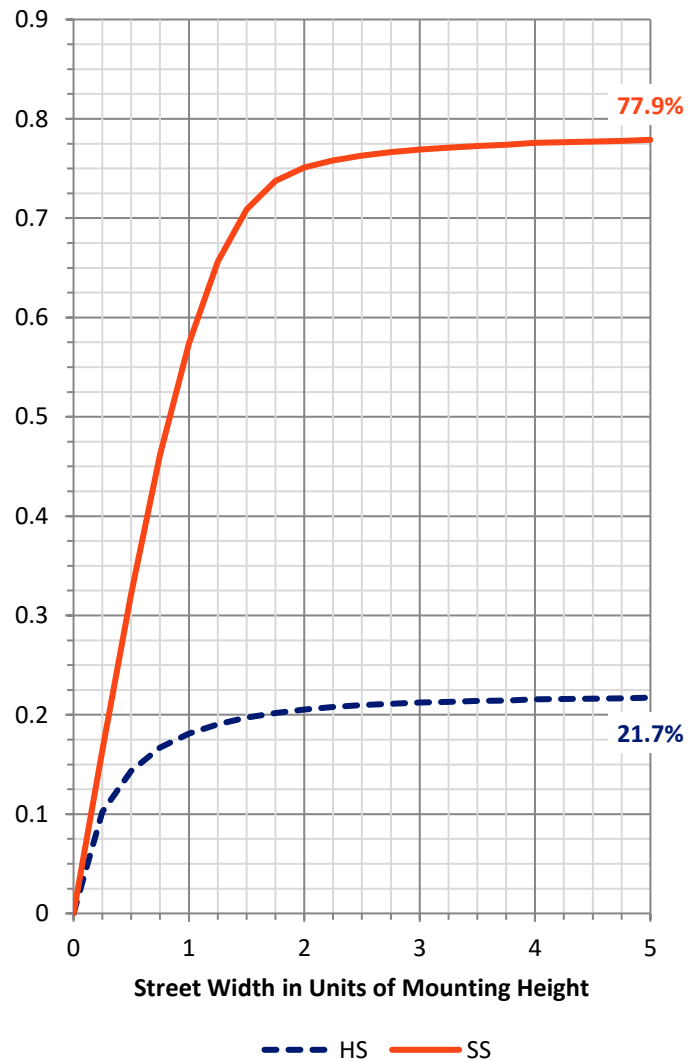
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3647.2	0.0	3647.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12926.8	0.0	12926.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	16574.0	0.0	16574.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	1.8
10°-20°	789.6	4.8
20°-30°	1274.1	7.7
30°-40°	1912.2	11.5
40°-50°	2712.6	16.4
50°-60°	3425.6	20.7
60°-70°	3479.2	21.0
70°-80°	2371.2	14.3
80°-90°	307.6	1.9
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°	16574.0	100.0
0°-180°	16574.0	100.0



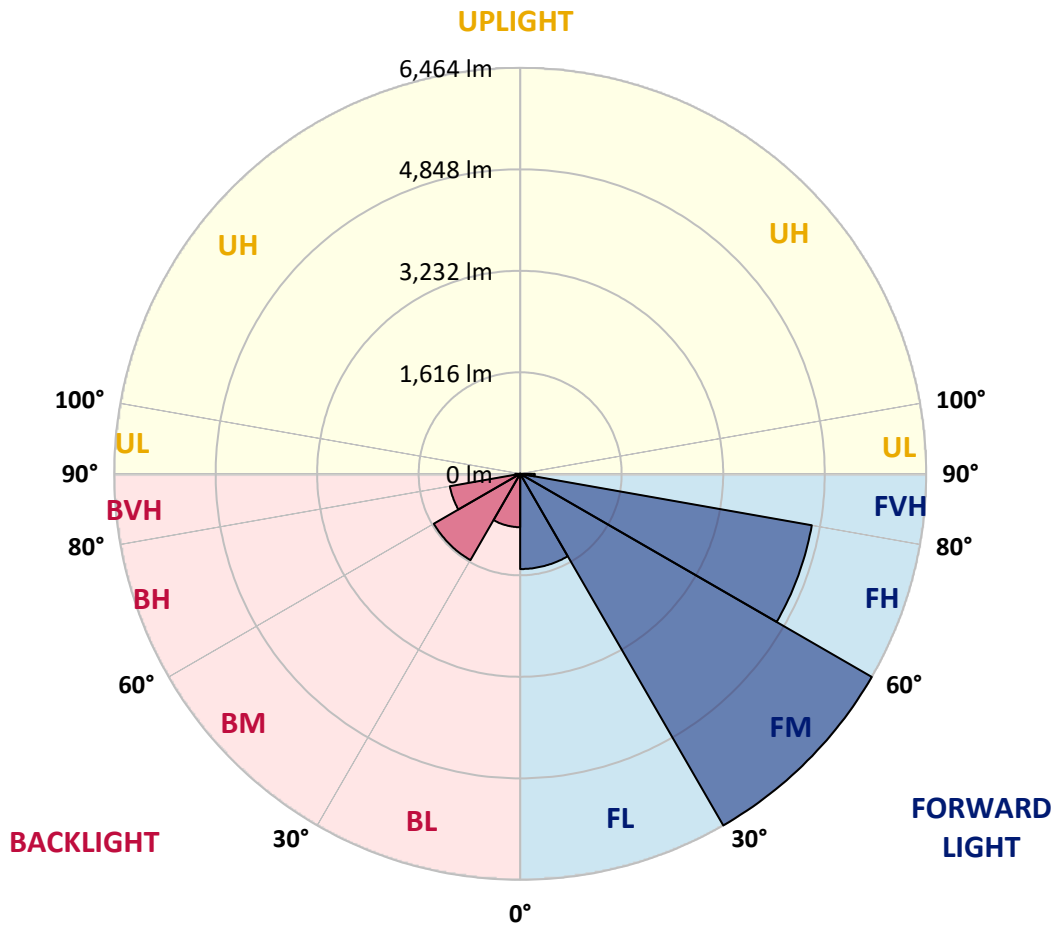
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1516.1	9.1			
FM (30°-60°)	6464.2	39.0			
FH (60°-80°)	4714.7	28.4			G2/5000
FVH (80°-90°)	231.7	1.4			G3/500
BL (0°-30°)	849.5	5.1	B2/1000		
BM (30°-60°)	1586.1	9.6	B2/2500		
BH (60°-80°)	1135.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	75.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1
2.5°	3328.8	3313.0	3322.7	3319.2	3323.6	3328.8	3330.6	3333.2	3342.0	3341.1	3340.2
5°	3321.8	3306.0	3319.2	3314.8	3326.2	3338.5	3349.0	3358.6	3372.7	3378.8	3370.0
7.5°	3306.9	3296.4	3309.5	3322.7	3343.7	3362.1	3377.0	3399.0	3419.1	3422.6	3428.8
10°	3220.1	3212.2	3242.9	3277.1	3335.0	3384.9	3417.4	3442.8	3464.7	3468.2	3477.0
12.5°	3129.8	3120.2	3154.4	3200.8	3294.6	3384.9	3453.3	3486.6	3505.9	3517.3	3530.5
15°	3114.9	3107.0	3126.3	3166.6	3244.7	3361.3	3477.9	3539.2	3555.9	3569.0	3574.3
17.5°	3186.8	3171.9	3179.8	3193.8	3239.4	3339.3	3497.2	3598.8	3624.3	3638.3	3638.3
20°	3353.4	3332.3	3320.1	3292.0	3284.1	3342.9	3495.4	3670.7	3704.1	3721.6	3726.0
22.5°	3575.2	3561.2	3534.9	3463.8	3386.7	3385.8	3528.7	3762.8	3825.0	3841.7	3831.2
25°	3843.4	3822.4	3789.1	3692.7	3544.5	3470.9	3584.8	3880.3	3984.6	3989.0	3958.3
27.5°	4152.0	4120.5	4074.9	3947.8	3747.9	3604.1	3670.7	4015.3	4167.8	4166.1	4103.0
30°	4477.3	4445.7	4397.5	4243.2	3991.6	3783.8	3790.0	4160.8	4385.2	4375.6	4267.8
32.5°	4714.9	4691.2	4681.6	4562.3	4272.2	3996.0	3926.7	4322.1	4653.5	4644.8	4494.0
35°	4897.2	4866.6	4878.0	4817.5	4578.1	4233.6	4094.2	4514.1	4979.7	4978.8	4791.2
37.5°	5077.8	5050.7	5060.3	5020.0	4861.3	4535.2	4298.5	4749.1	5383.8	5403.1	5150.6
40°	5242.7	5213.7	5252.3	5214.6	5081.3	4856.0	4530.8	5014.7	5852.0	5888.8	5585.4
42.5°	5341.7	5318.9	5382.9	5383.8	5272.5	5126.9	4785.9	5307.5	6393.8	6476.2	6120.2
45°	5375.9	5368.0	5464.5	5484.6	5441.7	5283.9	5015.6	5626.7	6977.6	7124.9	6729.5
47.5°	5339.1	5324.2	5457.5	5532.0	5566.2	5357.5	5205.8	5972.1	7573.8	7789.5	7394.1
50°	5153.2	5124.3	5322.4	5479.4	5601.2	5405.7	5397.8	6371.0	8251.5	8487.3	8062.1
52.5°	4819.2	4797.3	5022.6	5295.3	5524.1	5429.4	5613.5	6806.7	8895.0	9200.1	8746.8
55°	4392.3	4363.3	4611.4	4967.4	5332.1	5421.5	5829.2	7294.1	9654.2	9963.7	9454.3
57.5°	3715.5	3657.6	3971.4	4392.3	5019.1	5411.9	6053.6	7779.0	10425.7	10796.5	10209.2
60°	2728.3	2642.4	3027.2	3526.1	4407.2	5318.1	6331.5	8322.5	11351.5	11685.5	11033.3
62.5°	1588.6	1538.6	1790.2	2255.7	3321.8	4765.7	6487.6	8954.6	12261.5	12612.2	11843.3
65°	1233.5	1219.5	1241.4	1277.4	1849.0	3568.2	6006.3	9570.9	13418.8	13664.2	12687.6
67.5°	1128.3	1117.8	1127.4	1059.9	938.1	1987.5	4751.7	9727.0	14658.4	14807.4	13426.6
70°	1002.9	990.7	1022.2	964.4	738.2	903.9	3070.2	9160.6	15644.7	15924.4	13988.6
72.5°	817.1	803.1	876.7	850.4	621.6	580.4	1542.1	7814.9	15541.2	16121.6	13586.2
75°	627.7	619.8	707.5	729.4	506.7	456.8	739.9	5809.0	13676.5	14261.3	11709.2
77.5°	487.4	481.3	526.0	605.8	408.5	354.2	455.0	3684.8	10306.5	10409.0	8069.1
80°	365.6	348.0	389.3	469.0	318.2	258.6	308.6	2148.8	6514.8	5905.4	3512.1
82.5°	228.8	220.1	254.2	313.0	224.4	178.0	200.8	1187.1	2610.8	1537.7	677.7
85°	130.6	127.1	138.5	178.8	121.9	102.6	114.8	524.3	476.9	327.9	204.3
87.5°	52.6	50.8	63.1	79.8	44.7	37.7	40.3	126.2	105.2	97.3	67.5
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°	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1	3327.1
2.5°	3336.7	3336.7	3324.4	3305.2	3283.2	3269.2	3246.4	3240.3	3216.6	3209.6	3221.0
5°	3377.0	3370.0	3332.3	3278.0	3203.5	3135.1	3059.7	3012.3	2945.7	2922.0	2939.6
7.5°	3427.9	3408.6	3343.7	3224.5	3068.4	2915.0	2755.5	2634.5	2518.8	2477.6	2482.8
10°	3474.4	3447.2	3336.7	3128.1	2858.0	2592.4	2338.2	2160.2	2025.2	1969.9	1982.2
12.5°	3520.8	3470.9	3290.3	2967.6	2559.1	2198.8	1927.9	1789.3	1706.1	1639.4	1661.3
15°	3564.7	3494.5	3218.4	2752.8	2231.2	1865.6	1665.7	1555.3	1488.6	1444.8	1452.7
17.5°	3615.5	3514.7	3110.5	2480.2	1919.1	1635.0	1472.0	1405.3	1392.2	1386.9	1390.4
20°	3686.5	3533.1	2968.5	2175.1	1689.4	1450.9	1366.8	1360.6	1359.8	1357.1	1365.9
22.5°	3762.8	3555.0	2780.9	1898.1	1493.9	1336.1	1321.2	1308.9	1301.0	1300.1	1309.8
25°	3853.1	3562.0	2545.9	1671.0	1327.3	1281.7	1264.2	1245.8	1240.5	1240.5	1245.8
27.5°	3940.8	3538.4	2272.4	1473.7	1233.5	1231.8	1209.0	1202.8	1202.0	1204.6	1211.6
30°	4028.4	3493.6	2000.6	1291.4	1179.2	1179.2	1171.3	1175.7	1179.2	1187.9	1194.1
32.5°	4146.8	3446.3	1773.6	1156.4	1131.8	1123.1	1130.9	1139.7	1143.2	1154.6	1164.3
35°	4320.4	3413.0	1593.0	1082.7	1082.7	1071.3	1075.7	1074.0	1066.1	1060.8	1073.1
37.5°	4550.1	3411.2	1443.9	1048.5	1041.5	1039.8	1040.6	1029.2	998.6	961.7	962.6
40°	4826.2	3458.6	1329.1	1024.9	1019.6	1030.1	1024.9	994.2	910.0	846.0	844.3
42.5°	5197.1	3593.6	1255.4	995.9	1011.7	1024.9	1003.8	897.7	840.8	797.8	796.0
45°	5633.7	3812.8	1217.7	965.2	996.8	1012.6	910.9	864.4	818.8	767.1	763.6
47.5°	6128.1	4088.9	1209.0	936.3	963.5	973.1	871.4	850.4	798.7	742.6	738.2
50°	6666.4	4415.9	1232.6	902.1	915.3	882.0	858.3	839.0	785.5	730.3	724.2
52.5°	7223.1	4776.3	1280.0	855.7	867.1	830.2	853.0	836.4	777.6	703.1	697.9
55°	7770.2	5139.2	1325.6	801.3	818.0	783.8	838.1	825.9	741.7	657.5	653.1
57.5°	8326.0	5500.4	1370.3	753.1	770.6	739.1	814.5	797.8	701.4	615.4	613.7
60°	8903.8	5851.1	1391.3	706.6	718.9	697.9	778.5	749.6	655.8	572.5	569.9
62.5°	9444.7	6143.0	1357.1	660.2	668.0	659.3	731.2	692.6	610.2	524.3	523.4
65°	9987.4	6316.6	1251.9	614.6	616.3	611.9	664.5	631.2	556.7	482.2	476.9
67.5°	10479.2	6413.9	1084.5	565.5	561.1	559.3	602.3	564.6	505.0	440.1	434.8
70°	10583.5	6166.7	828.5	507.6	507.6	503.2	533.9	495.3	448.0	395.4	393.6
72.5°	9666.5	5187.4	588.3	441.9	448.9	440.1	465.5	433.1	390.1	355.1	344.5
75°	7794.7	3804.0	427.8	374.4	386.6	371.7	395.4	372.6	335.8	334.9	301.6
77.5°	5355.8	2352.2	310.4	308.6	317.4	298.1	325.3	313.0	279.7	264.8	248.1
80°	2285.6	938.1	226.2	238.5	238.5	220.9	252.5	256.0	227.1	220.1	220.1
82.5°	455.0	266.5	158.7	163.9	154.3	149.0	178.8	198.1	273.5	304.2	305.1
85°	136.8	98.2	95.6	89.4	78.9	79.8	105.2	199.0	245.5	140.3	121.0
87.5°	37.7	24.5	25.4	20.2	16.7	21.9	35.9	150.8	82.4	35.1	29.8
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)