

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: P948070

Luminaire Tested: **GALN-SB3B-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948070
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-SB3B-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15576 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

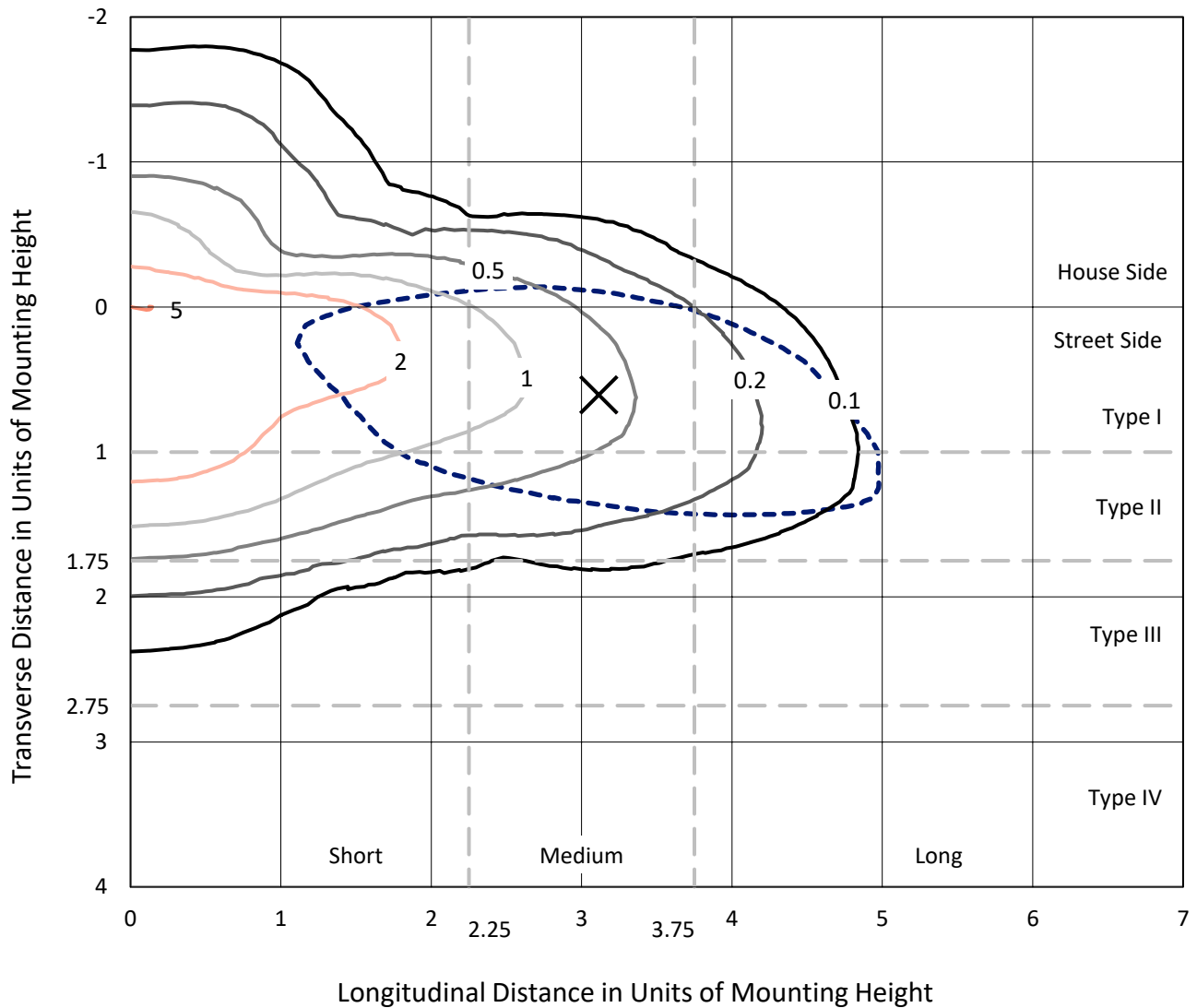
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

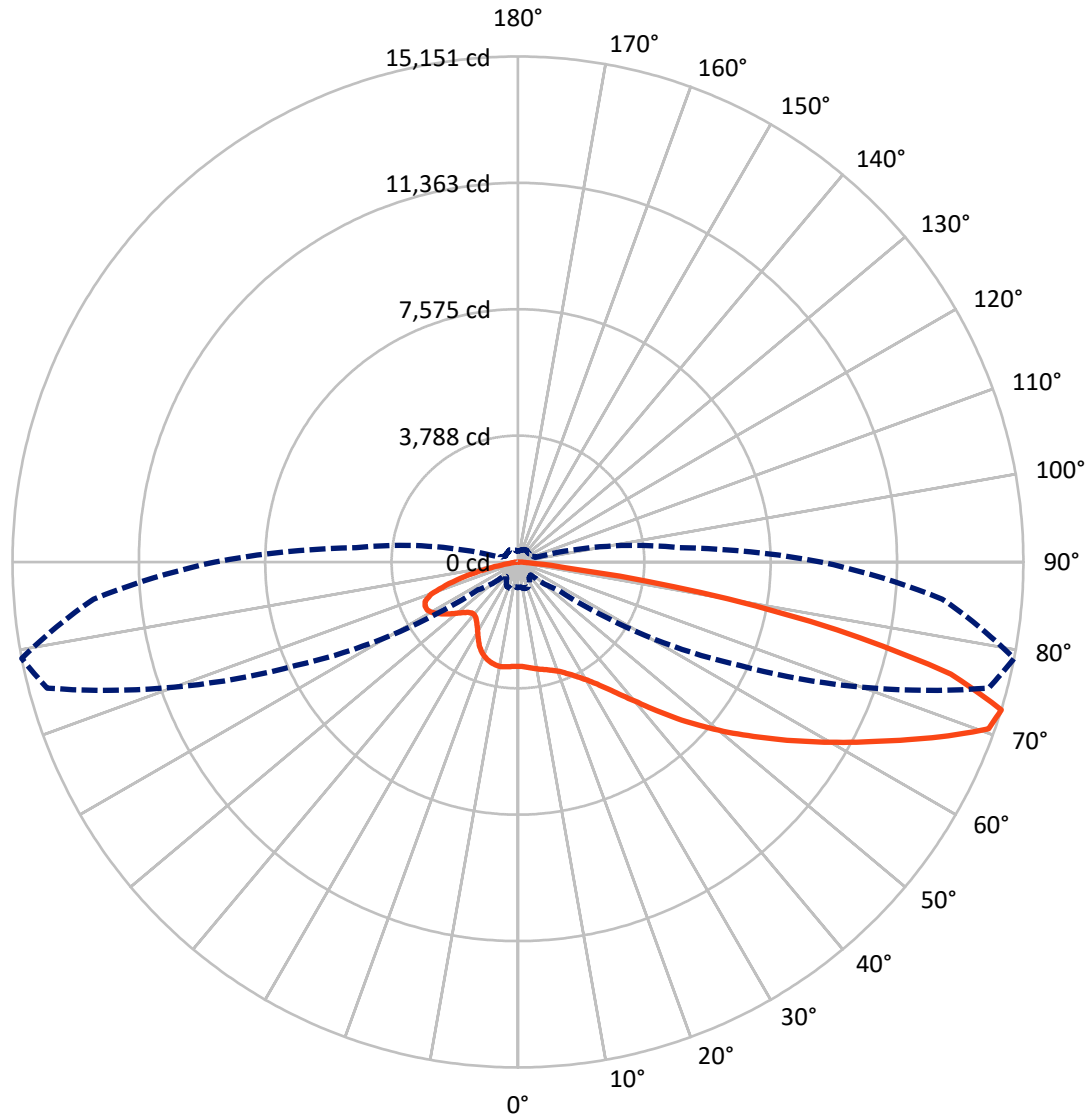
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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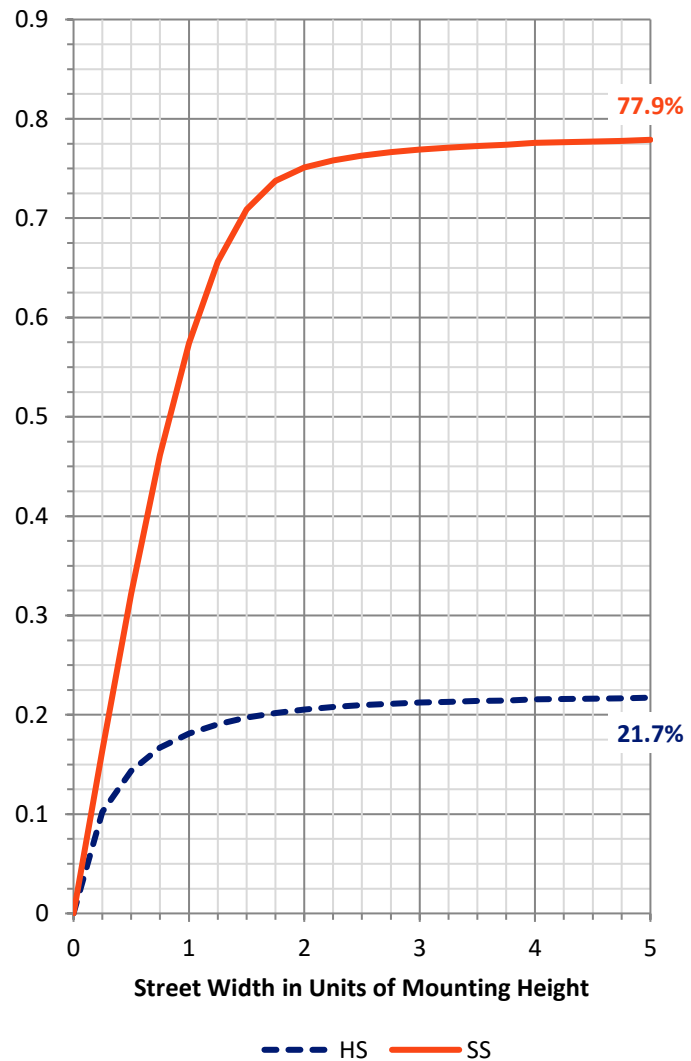
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3427.6	0.0	3427.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12148.4	0.0	12148.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	15576.0	0.0	15576.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	1.8
10°-20°	742.0	4.8
20°-30°	1197.4	7.7
30°-40°	1797.1	11.5
40°-50°	2549.2	16.4
50°-60°	3219.3	20.7
60°-70°	3269.7	21.0
70°-80°	2228.4	14.3
80°-90°	289.1	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°	15576.0	100.0
0°-180°	15576.0	100.0



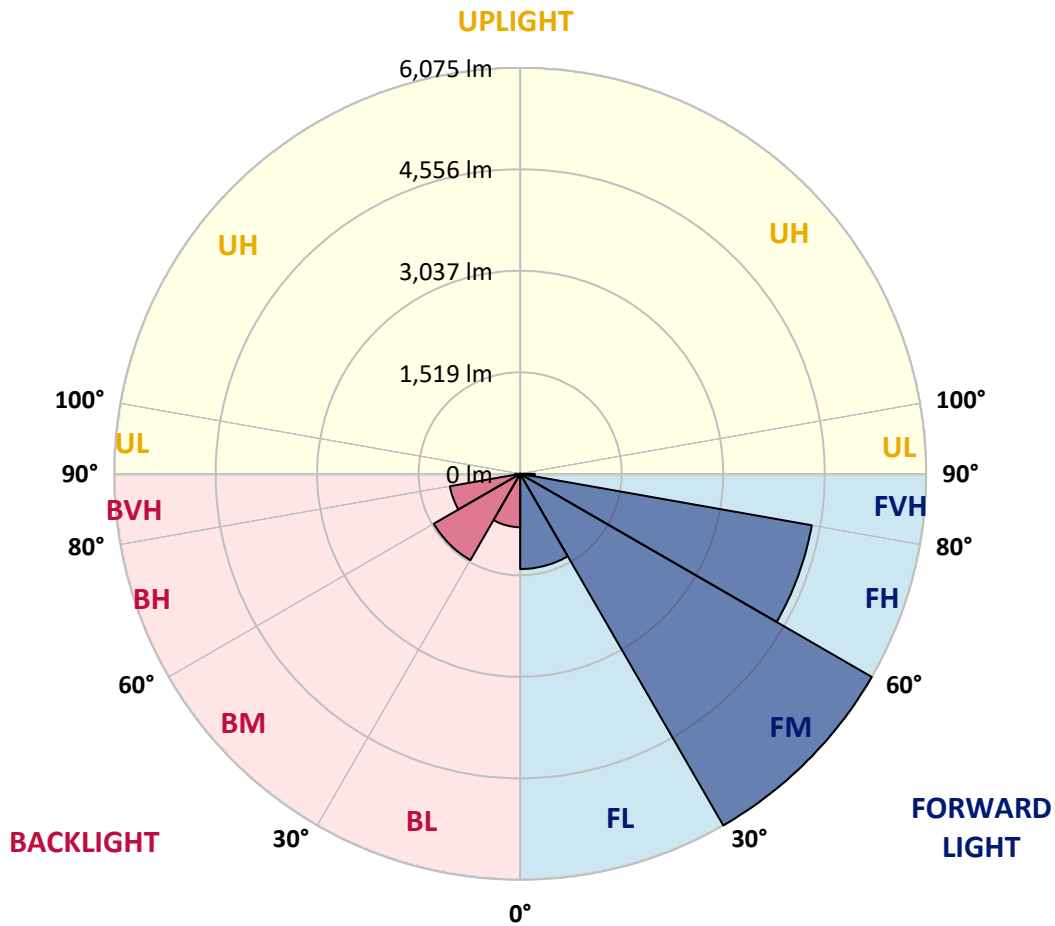
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1424.8	9.1			
FM (30°-60°)	6075.0	39.0			
FH (60°-80°)	4430.8	28.4			G2/5000
FVH (80°-90°)	217.8	1.4			G2/225
BL (0°-30°)	798.4	5.1	B2/1000		
BM (30°-60°)	1490.6	9.6	B2/2500		
BH (60°-80°)	1067.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	71.3	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°	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3128.4	3113.6	3122.6	3119.3	3123.4	3128.4	3130.0	3132.5	3140.7	3139.9	3139.1
5°	3121.8	3107.0	3119.3	3115.2	3125.9	3137.4	3147.3	3156.4	3169.6	3175.3	3167.1
7.5°	3107.8	3097.9	3110.3	3122.6	3142.4	3159.7	3173.7	3194.3	3213.2	3216.5	3222.3
10°	3026.2	3018.8	3047.6	3079.8	3134.1	3181.1	3211.6	3235.5	3256.1	3259.4	3267.6
12.5°	2941.4	2932.3	2964.4	3008.1	3096.2	3181.1	3245.4	3276.7	3294.8	3305.5	3317.9
15°	2927.3	2919.9	2938.1	2976.0	3049.3	3158.9	3268.4	3326.1	3341.8	3354.1	3359.1
17.5°	2994.9	2980.9	2988.3	3001.5	3044.3	3138.3	3286.6	3382.1	3406.0	3419.2	3419.2
20°	3151.5	3131.7	3120.1	3093.8	3086.4	3141.6	3284.9	3449.7	3481.0	3497.5	3501.6
22.5°	3359.9	3346.7	3322.0	3255.3	3182.8	3181.9	3316.2	3536.2	3594.7	3610.4	3600.5
25°	3612.0	3592.2	3560.9	3470.3	3331.1	3261.9	3369.0	3646.6	3744.7	3748.8	3719.9
27.5°	3902.0	3872.4	3829.5	3710.1	3522.2	3387.1	3449.7	3773.5	3916.9	3915.2	3855.9
30°	4207.7	4178.0	4132.7	3987.7	3751.3	3556.0	3561.8	3910.3	4121.2	4112.1	4010.8
32.5°	4431.0	4408.7	4399.7	4287.6	4014.9	3755.4	3690.3	4061.9	4373.3	4365.1	4223.4
35°	4602.4	4573.5	4584.2	4527.4	4302.5	3978.7	3847.7	4242.3	4679.8	4679.0	4502.7
37.5°	4772.1	4746.5	4755.6	4717.7	4568.6	4262.1	4039.6	4463.1	5059.6	5077.7	4840.5
40°	4927.0	4899.8	4936.0	4900.6	4775.4	4563.6	4258.0	4712.8	5499.6	5534.2	5249.1
42.5°	5020.1	4998.7	5058.8	5059.6	4955.0	4818.2	4497.7	4987.9	6008.8	6086.2	5751.7
45°	5052.2	5044.8	5135.4	5154.4	5114.0	4965.7	4713.6	5287.8	6557.5	6695.9	6324.3
47.5°	5017.6	5003.6	5128.8	5198.9	5231.0	5034.9	4892.4	5612.5	7117.7	7320.4	6948.8
50°	4842.9	4815.7	5002.0	5149.4	5264.0	5080.2	5072.8	5987.3	7754.6	7976.3	7576.7
52.5°	4529.0	4508.4	4720.2	4976.4	5191.4	5102.5	5275.5	6396.8	8359.4	8646.1	8220.1
55°	4127.8	4100.6	4333.8	4668.3	5011.0	5095.1	5478.2	6854.9	9072.9	9363.7	8885.0
57.5°	3491.7	3437.3	3732.3	4127.8	4716.9	5086.0	5689.1	7310.5	9797.9	10146.4	9594.4
60°	2564.0	2483.3	2845.0	3313.8	4141.8	4997.8	5950.3	7821.4	10668.0	10981.9	10368.9
62.5°	1492.9	1446.0	1682.4	2119.9	3121.8	4478.8	6096.9	8415.4	11523.2	11852.8	11130.2
65°	1159.2	1146.1	1166.7	1200.4	1737.6	3353.3	5644.6	8994.6	12610.7	12841.4	11923.6
67.5°	1060.4	1050.5	1059.5	996.1	881.6	1867.8	4465.6	9141.3	13775.8	13915.8	12618.2
70°	942.6	931.0	960.7	906.3	693.7	849.4	2885.3	8609.0	14702.7	14965.5	13146.3
72.5°	767.9	754.7	823.9	799.2	584.2	545.4	1449.3	7344.3	14605.4	15150.9	12768.1
75°	589.9	582.5	664.9	685.5	476.2	429.3	695.4	5459.2	12853.0	13402.5	11004.1
77.5°	458.1	452.3	494.3	569.3	383.9	332.9	427.6	3462.9	9685.9	9782.3	7583.3
80°	343.6	327.1	365.8	440.8	299.1	243.1	290.0	2019.4	6122.5	5549.8	3300.6
82.5°	215.0	206.8	238.9	294.1	210.9	167.3	188.7	1115.6	2453.6	1445.1	636.9
85°	122.8	119.5	130.2	168.1	114.5	96.4	107.9	492.7	448.2	308.1	192.0
87.5°	49.4	47.8	59.3	75.0	42.0	35.4	37.9	118.6	98.9	91.5	63.4
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°	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7	3126.7
2.5°	3135.8	3135.8	3124.3	3106.1	3085.5	3072.4	3050.9	3045.2	3022.9	3016.3	3027.0
5°	3173.7	3167.1	3131.7	3080.6	3010.6	2946.3	2875.4	2831.0	2768.3	2746.1	2762.6
7.5°	3221.5	3203.4	3142.4	3030.3	2883.7	2739.5	2589.5	2475.8	2367.1	2328.4	2333.3
10°	3265.2	3239.6	3135.8	2939.7	2685.9	2436.3	2197.4	2030.1	1903.2	1851.3	1862.9
12.5°	3308.8	3261.9	3092.1	2788.9	2405.0	2066.4	1811.8	1681.6	1603.3	1540.7	1561.3
15°	3350.0	3284.1	3024.6	2587.1	2096.8	1753.3	1565.4	1461.6	1399.0	1357.8	1365.2
17.5°	3397.8	3303.1	2923.2	2330.8	1803.5	1536.6	1383.3	1320.7	1308.4	1303.4	1306.7
20°	3464.5	3320.4	2789.8	2044.1	1587.7	1363.6	1284.5	1278.7	1277.9	1275.4	1283.6
22.5°	3536.2	3341.0	2613.4	1783.8	1403.9	1255.6	1241.6	1230.1	1222.7	1221.9	1230.9
25°	3621.1	3347.5	2392.6	1570.4	1247.4	1204.6	1188.1	1170.8	1165.8	1165.8	1170.8
27.5°	3703.5	3325.3	2135.6	1385.0	1159.2	1157.6	1136.2	1130.4	1129.6	1132.1	1138.6
30°	3785.9	3283.3	1880.2	1213.6	1108.2	1108.2	1100.7	1104.9	1108.2	1116.4	1122.2
32.5°	3897.1	3238.8	1666.8	1086.7	1063.7	1055.4	1062.8	1071.1	1074.4	1085.1	1094.2
35°	4060.2	3207.5	1497.0	1017.5	1017.5	1006.8	1010.9	1009.3	1001.9	996.9	1008.5
37.5°	4276.1	3205.8	1357.0	985.4	978.8	977.2	978.0	967.3	938.4	903.8	904.7
40°	4535.6	3250.3	1249.0	963.1	958.2	968.1	963.1	934.3	855.2	795.1	793.4
42.5°	4884.1	3377.2	1179.8	936.0	950.8	963.1	943.4	843.7	790.1	749.8	748.1
45°	5294.4	3583.2	1144.4	907.1	936.8	951.6	856.0	812.4	769.5	720.9	717.6
47.5°	5759.1	3842.7	1136.2	879.9	905.5	914.5	819.0	799.2	750.6	697.9	693.7
50°	6265.0	4150.0	1158.4	847.8	860.2	828.9	806.6	788.5	738.2	686.3	680.5
52.5°	6788.2	4488.7	1202.9	804.1	814.8	780.2	801.7	786.0	730.8	660.8	655.8
55°	7302.3	4829.8	1245.8	753.1	768.7	736.6	787.7	776.1	697.0	617.9	613.8
57.5°	7824.7	5169.2	1287.8	707.7	724.2	694.6	765.4	749.8	659.1	578.4	576.7
60°	8367.6	5498.8	1307.5	664.1	675.6	655.8	731.6	704.4	616.3	538.0	535.5
62.5°	8876.0	5773.1	1275.4	620.4	627.8	619.6	687.1	650.9	573.4	492.7	491.9
65°	9386.0	5936.3	1176.5	577.6	579.2	575.1	624.5	593.2	523.2	453.1	448.2
67.5°	9848.2	6027.7	1019.2	531.4	527.3	525.7	566.0	530.6	474.6	413.6	408.7
70°	9946.2	5795.4	778.6	477.0	477.0	472.9	501.8	465.5	421.0	371.6	369.9
72.5°	9084.4	4875.1	552.8	415.3	421.8	413.6	437.5	407.0	366.6	333.7	323.8
75°	7325.4	3574.9	402.1	351.8	363.3	349.3	371.6	350.2	315.6	314.7	283.4
77.5°	5033.3	2210.5	291.7	290.0	298.3	280.1	305.7	294.1	262.8	248.8	233.2
80°	2147.9	881.6	212.6	224.1	224.1	207.6	237.3	240.6	213.4	206.8	206.8
82.5°	427.6	250.5	149.1	154.1	145.0	140.1	168.1	186.2	257.1	285.9	286.7
85°	128.5	92.3	89.8	84.0	74.2	75.0	98.9	187.0	230.7	131.8	113.7
87.5°	35.4	23.1	23.9	18.9	15.7	20.6	33.8	141.7	77.4	33.0	28.0
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)