

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: P528310

Luminaire Tested: **GALN-SA3B-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10584 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

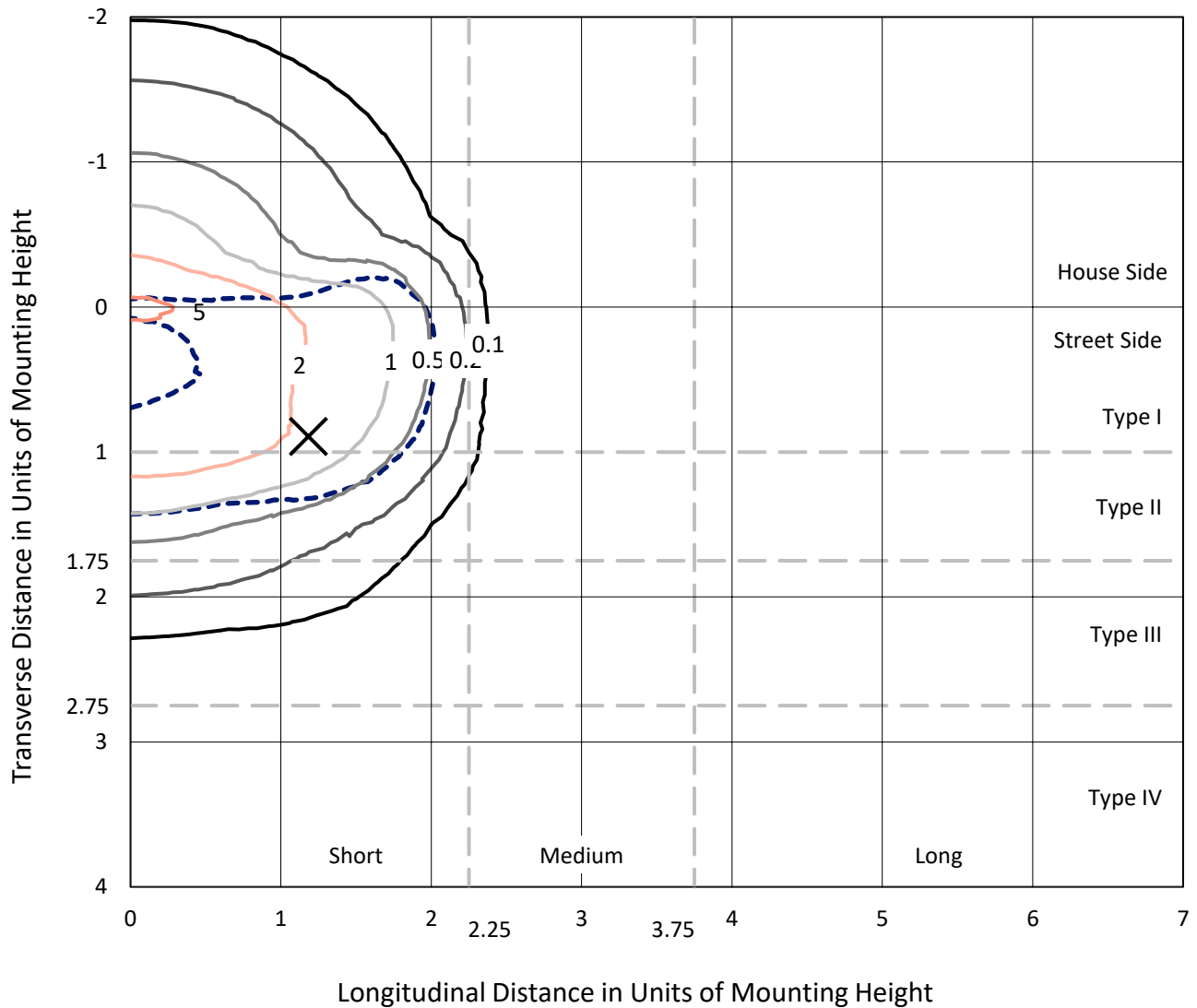
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

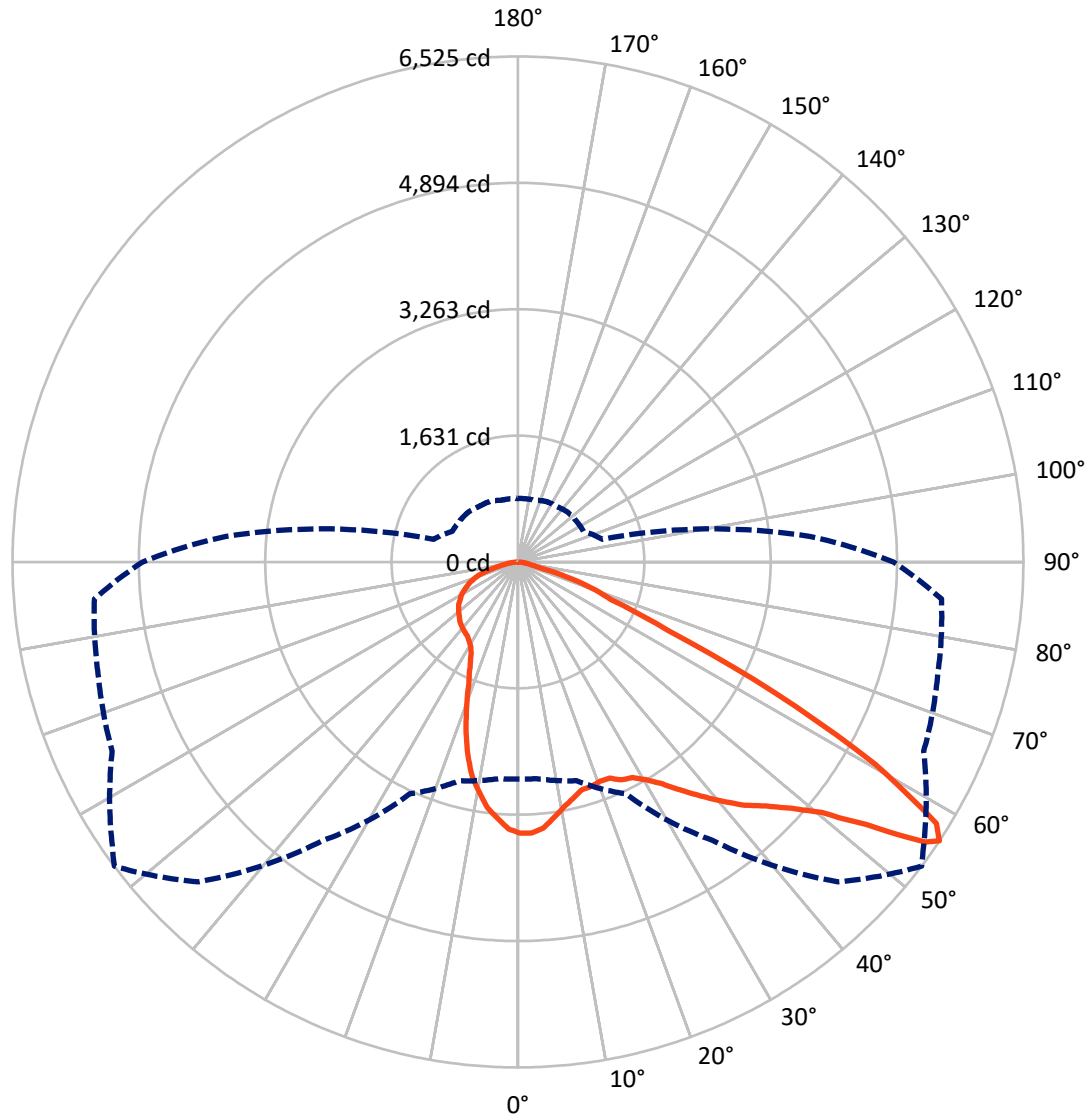
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.6	0.0	3088.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	7495.4	0.0	7495.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	10584.0	0.0	10584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.0	2.9
10°-20°	774.2	7.3
20°-30°	1141.7	10.8
30°-40°	1631.2	15.4
40°-50°	2245.1	21.2
50°-60°	2653.2	25.1
60°-70°	1414.0	13.4
70°-80°	358.7	3.4
80°-90°	55.9	0.5
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°	10584.0	100.0
0°-180°	10584.0	100.0

Coefficient of Utilization



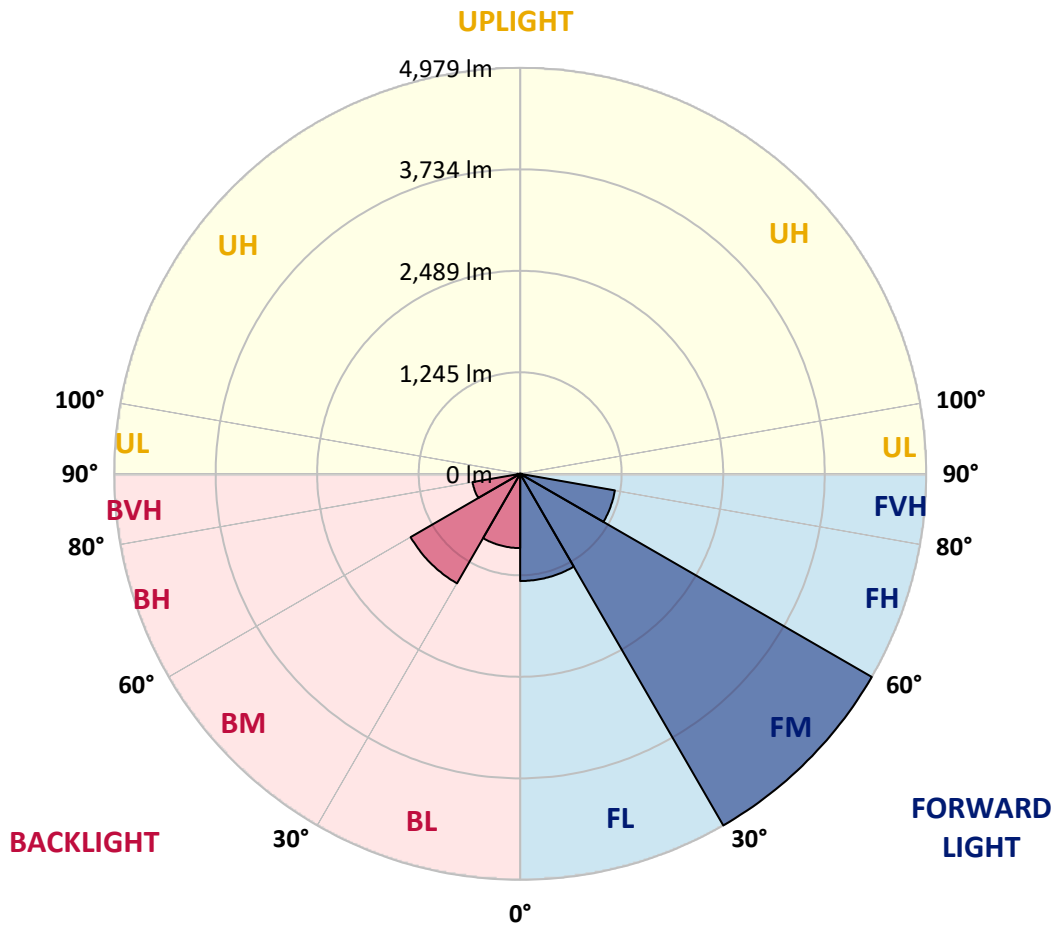
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1314.9	12.4			
FM (30°-60°)	4978.5	47.0			
FH (60°-80°)	1179.5	11.1			G1/1800
FVH (80°-90°)	22.5	0.2			G1/100
BL (0°-30°)	911.0	8.6	B2/1000		
BM (30°-60°)	1551.0	14.7	B2/2500		
BH (60°-80°)	593.2	5.6	B2/1000		G2/1000
BVH (80°-90°)	33.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6
2.5°	3458.2	3428.3	3445.9	3439.1	3494.8	3511.1	3503.0	3509.8	3541.0	3526.0	3494.8
5°	3231.4	3273.5	3281.7	3302.0	3334.6	3398.4	3448.7	3462.2	3477.2	3546.4	3539.6
7.5°	3025.0	3053.6	3038.6	3098.4	3169.0	3272.1	3333.2	3344.1	3481.2	3519.3	3547.8
10°	2894.7	2866.2	2934.1	2950.4	3030.5	3148.6	3221.9	3266.7	3391.6	3542.3	3560.0
12.5°	2773.9	2764.4	2805.1	2851.2	2940.9	3063.1	3137.7	3155.4	3348.2	3507.0	3589.9
15°	2684.2	2673.4	2714.1	2748.1	2852.6	2961.2	3056.3	3106.5	3300.7	3486.7	3564.1
17.5°	2613.6	2612.3	2635.4	2696.5	2803.7	2894.7	3048.1	3050.8	3276.2	3517.9	3585.8
20°	2609.6	2608.2	2612.3	2680.2	2777.9	2889.3	3022.3	3046.8	3276.2	3496.2	3587.1
22.5°	2643.5	2621.8	2646.2	2689.7	2760.3	2898.8	3031.8	3086.1	3355.0	3603.4	3648.2
25°	2697.8	2703.3	2716.8	2731.8	2772.5	2920.5	3116.0	3160.8	3447.3	3695.8	3732.4
27.5°	2796.9	2794.2	2799.7	2807.8	2843.1	2940.9	3150.0	3265.4	3640.1	3860.0	3823.4
30°	2942.2	2932.7	2954.4	2982.9	2950.4	3006.0	3262.6	3349.5	3819.3	4025.7	3925.2
32.5°	3073.9	3109.2	3150.0	3162.2	3122.8	3133.7	3412.0	3500.2	3968.7	4229.4	4050.1
35°	3238.2	3266.7	3321.0	3359.0	3352.3	3319.7	3615.7	3732.4	4184.5	4378.7	4181.8
37.5°	3398.4	3432.4	3522.0	3634.7	3572.2	3557.3	3832.9	3929.3	4251.1	4458.8	4278.2
40°	3656.4	3655.0	3809.8	3868.2	3923.9	3898.1	4058.3	4090.9	4286.4	4441.2	4280.9
42.5°	3959.2	3940.2	4097.7	4188.6	4260.6	4263.3	4293.2	4282.3	4302.7	4351.5	4252.4
45°	4247.0	4287.7	4446.6	4609.5	4681.5	4689.6	4491.4	4471.0	4331.2	4325.8	4198.1
47.5°	4598.7	4608.2	4738.5	4953.0	5120.0	5063.0	4748.0	4703.2	4456.1	4498.2	4289.1
50°	4619.0	4689.6	4806.4	5058.9	5572.2	5557.2	5080.7	4996.5	4657.0	4742.6	4543.0
52.5°	4192.7	4176.4	4314.9	4727.6	5538.2	6048.7	5631.9	5430.9	5088.8	5023.6	4954.4
55°	3194.8	3232.8	3355.0	3771.8	4809.1	6055.5	6382.7	6218.4	5550.4	5439.1	5359.0
56°	2802.4	2807.8	2923.2	3303.4	4388.2	5839.6	6525.3	6392.2	5779.9	5610.2	5488.0
57.5°	2323.1	2291.9	2351.6	2559.3	3703.9	5383.4	6369.1	6499.5	6048.7	5794.8	5625.1
60°	1828.9	1822.1	1797.6	1835.7	2340.7	4055.6	5302.0	5595.2	6021.6	5621.0	5387.5
62.5°	1493.5	1459.6	1508.4	1562.8	1626.6	2515.9	3725.6	3898.1	4780.6	4487.3	4047.4
65°	1158.1	1141.9	1203.0	1379.5	1417.5	1598.1	2122.1	2255.2	2822.7	2772.5	2441.2
67.5°	797.0	799.7	852.7	1121.5	1314.3	1298.0	1299.4	1368.6	1473.1	1094.3	953.1
70°	505.1	503.7	532.2	722.3	1057.7	1068.5	1014.2	993.9	942.3	570.2	604.2
72.5°	324.5	315.0	329.9	399.2	547.2	632.7	651.7	663.9	545.8	448.1	486.1
75°	183.3	173.8	168.4	186.0	215.9	249.8	274.3	282.4	316.4	339.4	359.8
77.5°	55.7	50.2	61.1	81.5	107.3	143.9	175.1	180.6	213.2	240.3	260.7
80°	24.4	27.2	38.0	54.3	76.0	101.8	123.6	131.7	153.4	173.8	179.2
82.5°	14.9	16.3	25.8	36.7	53.0	72.0	88.3	91.0	112.7	129.0	133.1
85°	5.4	6.8	13.6	21.7	33.9	46.2	46.2	50.2	46.2	46.2	50.2
87.5°	0.0	0.0	1.4	2.7	2.7	4.1	5.4	5.4	6.8	8.1	9.5
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°	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6	3501.6
2.5°	3511.1	3504.3	3493.5	3454.1	3450.0	3437.8	3369.9	3359.0	3369.9	3337.3	3340.0
5°	3504.3	3524.7	3443.2	3403.8	3330.5	3277.6	3216.5	3185.3	3129.6	3094.3	3133.7
7.5°	3534.2	3526.0	3424.2	3338.7	3228.7	3094.3	2987.0	2925.9	2828.2	2801.0	2821.4
10°	3523.3	3479.9	3360.4	3247.7	3040.0	2921.9	2748.1	2579.7	2487.4	2439.9	2433.1
12.5°	3508.4	3496.2	3296.6	3102.4	2883.8	2635.4	2391.0	2232.1	2081.4	2016.2	2025.7
15°	3526.0	3422.9	3177.1	2931.4	2640.8	2314.9	2051.5	1846.5	1742.0	1699.9	1699.9
17.5°	3517.9	3387.6	3120.1	2739.9	2372.0	1986.4	1697.2	1573.6	1530.2	1530.2	1542.4
20°	3522.0	3410.6	3004.7	2548.5	2054.3	1672.7	1462.3	1417.5	1436.5	1443.3	1450.1
22.5°	3545.1	3334.6	2892.0	2338.0	1759.6	1431.1	1327.9	1329.2	1363.2	1399.8	1393.0
25°	3573.6	3304.7	2754.8	2128.9	1534.2	1312.9	1280.3	1276.3	1302.1	1321.1	1323.8
27.5°	3549.1	3253.1	2615.0	1868.2	1349.6	1234.2	1227.4	1230.1	1238.3	1276.3	1264.1
30°	3629.2	3268.1	2439.9	1649.7	1247.8	1208.4	1200.2	1196.2	1208.4	1219.2	1209.7
32.5°	3728.3	3215.1	2309.5	1439.2	1197.5	1189.4	1173.1	1167.7	1174.4	1163.6	1169.0
35°	3771.8	3205.6	2139.8	1288.5	1158.1	1151.4	1141.9	1140.5	1141.9	1132.4	1124.2
37.5°	3796.2	3250.4	1945.6	1219.2	1133.7	1140.5	1118.8	1116.1	1091.6	1097.1	1101.1
40°	3838.3	3181.2	1788.1	1152.7	1118.8	1105.2	1086.2	1082.1	1065.8	1056.3	1065.8
42.5°	3777.2	3160.8	1633.4	1124.2	1097.1	1082.1	1068.5	1045.5	1040.0	1031.9	1026.4
45°	3728.3	3044.0	1494.9	1088.9	1071.3	1063.1	1037.3	1012.9	992.5	1000.7	988.4
47.5°	3765.0	3003.3	1357.7	1059.0	1036.0	1026.4	1000.7	981.6	961.3	951.8	949.1
50°	3911.6	3079.3	1242.3	1037.3	1006.1	1000.7	966.7	945.0	926.0	919.2	921.9
52.5°	4261.9	3287.1	1163.6	992.5	977.6	953.1	934.1	907.0	894.7	873.0	886.6
55°	4705.9	3625.2	1143.2	950.4	942.3	920.5	894.7	874.4	851.3	833.7	829.6
56°	4848.5	3786.7	1126.9	934.1	920.5	908.3	874.4	862.2	825.5	821.4	818.7
57.5°	4963.9	3929.3	1129.6	902.9	889.3	878.5	858.1	828.2	803.8	788.8	795.6
60°	4703.2	3678.1	1078.0	855.4	852.7	832.3	803.8	790.2	760.3	742.7	738.6
62.5°	3496.2	2496.9	874.4	794.3	792.9	771.2	738.6	723.7	718.2	693.8	693.8
65°	2013.5	1565.5	756.3	744.0	733.2	711.5	678.9	666.6	653.1	644.9	638.1
67.5°	859.4	811.9	687.0	685.7	673.4	646.3	613.7	594.7	577.0	560.7	568.9
70°	623.2	632.7	620.5	613.7	598.8	564.8	536.3	513.2	486.1	475.2	483.4
72.5°	494.2	514.6	532.2	533.6	515.9	476.6	445.3	414.1	384.2	369.3	376.1
75°	374.7	388.3	406.0	410.0	384.2	357.1	327.2	294.6	271.5	253.9	256.6
77.5°	270.2	267.5	283.8	281.1	268.8	249.8	222.7	192.8	167.0	150.7	152.1
80°	184.7	188.7	198.2	196.9	181.9	169.7	149.4	124.9	105.9	92.3	89.6
82.5°	129.0	135.8	143.9	137.1	124.9	112.7	97.8	80.1	65.2	54.3	51.6
85°	46.2	53.0	61.1	65.2	69.2	66.5	55.7	44.8	32.6	27.2	25.8
87.5°	9.5	10.9	12.2	12.2	12.2	10.9	9.5	9.5	8.1	4.1	4.1
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)