

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: P648315

Luminaire Tested: **GALN-SA3B-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648315
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-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 11273.6 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

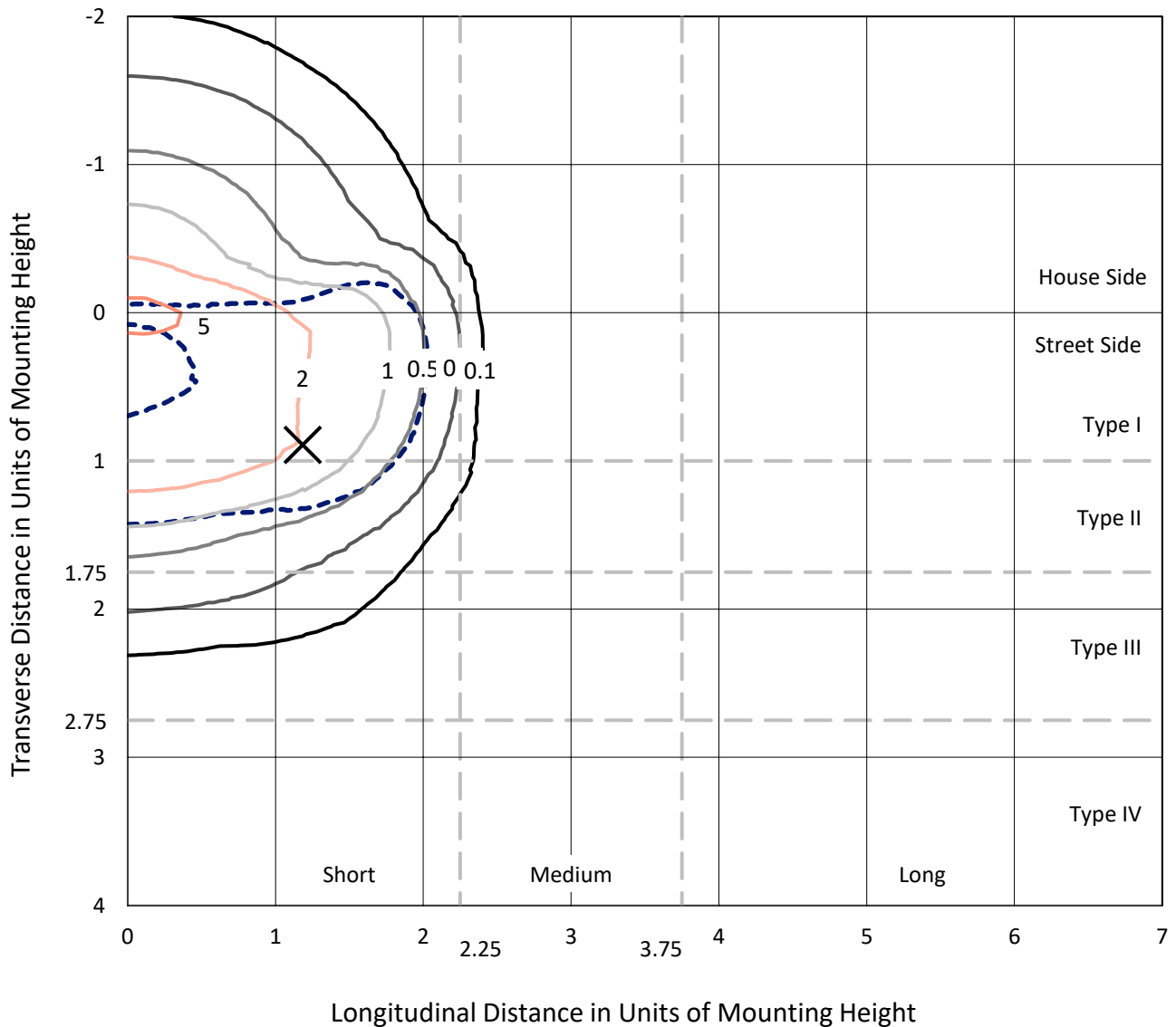
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

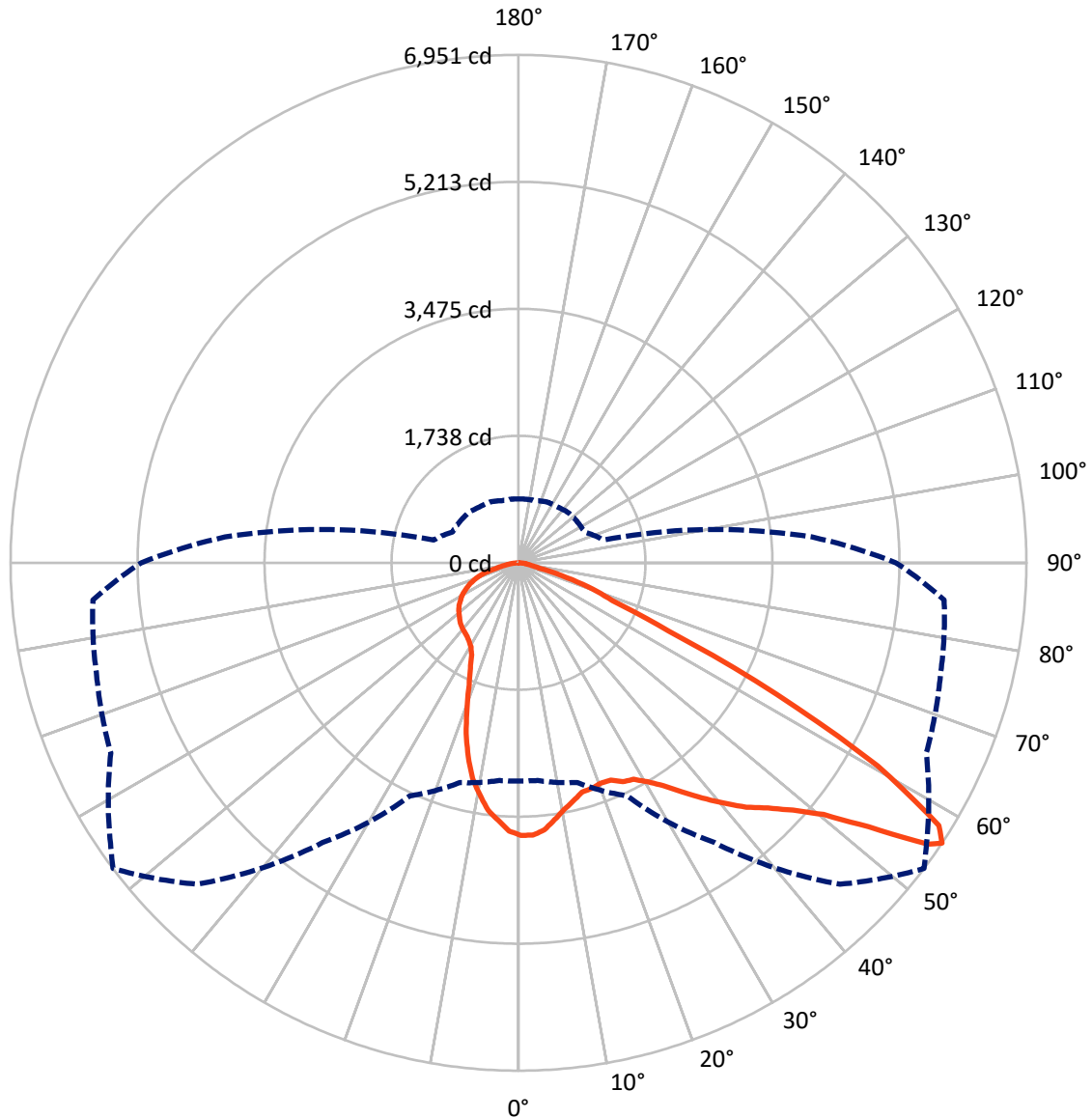
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3289.9	0.0	3289.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	7983.7	0.0	7983.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	11273.6	0.0	11273.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.2	2.9
10°-20°	824.7	7.3
20°-30°	1216.1	10.8
30°-40°	1737.5	15.4
40°-50°	2391.4	21.2
50°-60°	2826.0	25.1
60°-70°	1506.1	13.4
70°-80°	382.1	3.4
80°-90°	59.6	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°	11273.6	100.0
0°-180°	11273.6	100.0

Coefficient of Utilization

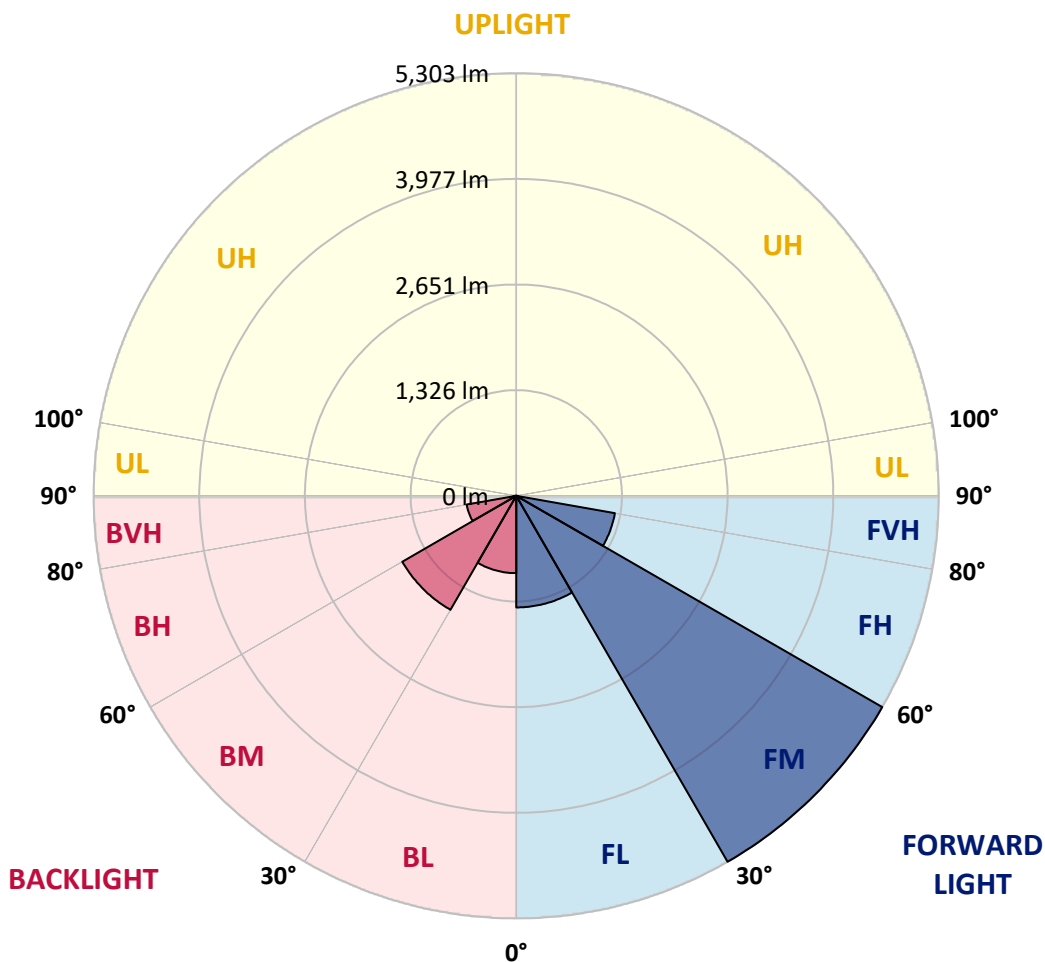


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.6	12.4			
FM (30°-60°)	5302.9	47.0			
FH (60°-80°)	1256.3	11.1			G1/1800
FVH (80°-90°)	24.0	0.2			G1/100
BL (0°-30°)	970.3	8.6	B2/1000		
BM (30°-60°)	1652.1	14.7	B2/2500		
BH (60°-80°)	631.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	35.6	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°	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7
2.5°	3683.5	3651.7	3670.5	3663.3	3722.5	3739.9	3731.2	3738.4	3771.7	3755.8	3722.5
5°	3442.0	3486.8	3495.5	3517.2	3551.8	3619.9	3673.4	3687.9	3703.7	3777.5	3770.2
7.5°	3222.1	3252.5	3236.6	3300.3	3375.4	3485.4	3550.4	3562.0	3708.1	3748.5	3778.9
10°	3083.3	3052.9	3125.3	3142.6	3227.9	3353.7	3431.8	3479.6	3612.6	3773.1	3791.9
12.5°	2954.6	2944.5	2987.8	3037.0	3132.5	3262.6	3342.2	3360.9	3566.3	3735.5	3823.8
15°	2859.1	2847.6	2891.0	2927.1	3038.5	3154.2	3255.4	3308.9	3515.7	3713.8	3796.3
17.5°	2784.0	2782.5	2807.1	2872.2	2986.4	3083.3	3246.7	3249.6	3489.7	3747.1	3819.4
20°	2779.6	2778.2	2782.5	2854.8	2959.0	3077.5	3219.2	3245.3	3489.7	3723.9	3820.9
22.5°	2815.7	2792.6	2818.6	2864.9	2940.2	3087.7	3229.4	3287.2	3573.5	3838.3	3886.0
25°	2873.6	2879.4	2893.9	2909.8	2953.2	3110.8	3319.1	3366.7	3671.9	3936.5	3975.6
27.5°	2979.2	2976.3	2982.1	2990.7	3028.3	3132.5	3355.2	3478.1	3877.3	4111.5	4072.5
30°	3134.0	3123.8	3147.0	3177.3	3142.6	3201.9	3475.3	3567.8	4068.2	4288.0	4181.0
32.5°	3274.2	3311.8	3355.2	3368.2	3326.3	3337.9	3634.3	3728.3	4227.3	4504.9	4314.0
35°	3449.2	3479.6	3537.4	3577.9	3570.7	3535.9	3851.3	3975.6	4457.2	4664.0	4454.3
37.5°	3619.9	3656.0	3751.4	3871.5	3805.0	3789.1	4082.6	4185.3	4528.1	4749.4	4557.0
40°	3894.6	3893.2	4058.1	4120.2	4179.5	4152.1	4322.7	4357.4	4565.7	4730.6	4559.9
42.5°	4217.2	4196.9	4364.7	4461.5	4538.2	4541.1	4572.9	4561.4	4583.1	4635.1	4529.5
45°	4523.7	4567.1	4736.3	4909.9	4986.5	4995.2	4784.1	4762.4	4613.4	4607.6	4471.6
47.5°	4898.3	4908.4	5047.2	5275.8	5453.7	5392.9	5057.4	5009.6	4746.5	4791.3	4568.6
50°	4920.0	4995.2	5119.6	5388.5	5935.2	5919.3	5411.7	5322.1	4960.5	5051.6	4839.0
52.5°	4465.9	4448.5	4596.1	5035.7	5899.0	6442.8	5998.9	5784.8	5420.4	5350.9	5277.2
55°	3402.9	3443.4	3573.5	4017.6	5122.5	6450.0	6798.6	6623.6	5912.1	5793.5	5708.1
56°	2985.0	2990.7	3113.7	3518.6	4674.1	6220.2	6950.5	6808.7	6156.5	5975.7	5845.6
57.5°	2474.4	2441.2	2504.8	2726.1	3945.2	5734.2	6784.1	6923.0	6442.8	6172.4	5991.6
60°	1948.0	1940.8	1914.7	1955.3	2493.2	4319.8	5647.5	5959.8	6413.9	5987.3	5738.5
62.5°	1590.8	1554.6	1606.7	1664.6	1732.5	2679.8	3968.4	4152.1	5092.1	4779.7	4311.1
65°	1233.6	1216.2	1281.3	1469.4	1509.9	1702.2	2260.4	2402.2	3006.6	2953.2	2600.3
67.5°	848.9	851.8	908.2	1194.5	1399.9	1382.5	1384.0	1457.8	1569.1	1165.7	1015.2
70°	538.0	536.5	566.9	769.4	1126.6	1138.2	1080.3	1058.6	1003.6	607.4	643.5
72.5°	345.6	335.5	351.4	425.2	582.8	673.9	694.2	707.2	581.4	477.2	517.7
75°	195.2	185.1	179.3	198.1	230.0	266.1	292.1	300.8	337.0	361.6	383.3
77.5°	59.3	53.5	65.1	86.8	114.2	153.3	186.6	192.4	227.1	256.0	277.7
80°	26.0	28.9	40.5	57.9	81.0	108.4	131.6	140.3	163.4	185.1	190.9
82.5°	15.9	17.4	27.5	39.1	56.4	76.7	94.0	96.9	120.0	137.4	141.7
85°	5.8	7.2	14.5	23.2	36.2	49.2	49.2	53.5	49.2	49.2	53.5
87.5°	0.0	0.0	1.4	2.9	2.9	4.3	5.8	5.8	7.2	8.7	10.1
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°	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7	3729.7
2.5°	3739.9	3732.6	3721.1	3679.2	3674.8	3661.8	3589.5	3577.9	3589.5	3554.7	3557.6
5°	3732.6	3754.3	3667.6	3625.6	3547.5	3491.2	3426.1	3392.8	3333.5	3295.9	3337.9
7.5°	3764.5	3755.8	3647.3	3556.2	3439.1	3295.9	3181.6	3116.6	3012.4	2983.5	3005.2
10°	3752.9	3706.6	3579.3	3459.3	3238.0	3112.3	2927.1	2747.8	2649.4	2598.9	2591.6
12.5°	3737.0	3723.9	3511.4	3304.6	3071.7	2807.1	2546.8	2377.6	2217.1	2147.6	2157.7
15°	3755.8	3645.9	3384.1	3122.4	2812.8	2465.7	2185.2	1966.8	1855.5	1810.7	1810.7
17.5°	3747.1	3608.3	3323.4	2918.5	2526.5	2115.8	1807.8	1676.2	1629.9	1629.9	1642.9
20°	3751.4	3632.9	3200.4	2714.5	2188.1	1781.7	1557.5	1509.9	1530.1	1537.3	1544.5
22.5°	3776.0	3551.8	3080.4	2490.3	1874.3	1524.3	1414.4	1415.8	1452.0	1491.1	1483.8
25°	3806.4	3520.1	2934.4	2267.6	1634.2	1398.5	1363.8	1359.4	1386.9	1407.1	1410.0
27.5°	3780.4	3465.1	2785.4	1990.0	1437.5	1314.6	1307.4	1310.3	1319.0	1359.4	1346.4
30°	3865.7	3481.0	2598.9	1757.1	1329.1	1287.1	1278.5	1274.1	1287.1	1298.7	1288.6
32.5°	3971.3	3424.6	2460.0	1533.0	1275.6	1266.9	1249.5	1243.7	1251.0	1239.4	1245.2
35°	4017.6	3414.5	2279.2	1372.4	1233.6	1226.4	1216.2	1214.8	1216.2	1206.1	1197.4
37.5°	4043.6	3462.2	2072.4	1298.7	1207.5	1214.8	1191.6	1188.8	1162.8	1168.5	1172.9
40°	4088.4	3388.4	1904.6	1227.8	1191.6	1177.2	1157.0	1152.7	1135.3	1125.2	1135.3
42.5°	4023.4	3366.7	1739.7	1197.4	1168.5	1152.7	1138.2	1113.6	1107.8	1099.1	1093.3
45°	3971.3	3242.4	1592.3	1159.9	1141.1	1132.4	1104.9	1078.9	1057.2	1065.8	1052.8
47.5°	4010.3	3199.0	1446.2	1128.1	1103.5	1093.3	1065.8	1045.6	1023.9	1013.8	1010.9
50°	4166.5	3280.0	1323.3	1104.9	1071.6	1065.8	1029.7	1006.5	986.3	979.1	982.0
52.5°	4539.6	3501.3	1239.4	1057.2	1041.2	1015.2	995.0	966.1	953.1	929.9	944.4
55°	5012.5	3861.4	1217.7	1012.3	1003.6	980.6	953.1	931.4	906.8	888.0	883.6
56°	5164.4	4033.5	1200.3	995.0	980.6	967.5	931.4	918.3	879.3	874.9	872.0
57.5°	5287.4	4185.3	1203.2	961.8	947.3	935.7	914.0	882.2	856.1	840.2	847.4
60°	5009.6	3917.7	1148.3	911.1	908.2	886.5	856.1	841.7	809.9	791.1	786.8
62.5°	3723.9	2659.5	931.4	846.0	844.6	821.4	786.8	770.9	765.1	739.0	739.0
65°	2144.7	1667.5	805.6	792.6	781.0	757.8	723.1	710.1	695.6	686.9	679.7
67.5°	915.5	864.8	731.8	730.3	717.3	688.4	653.6	633.4	614.7	597.3	606.0
70°	663.8	673.9	660.9	653.6	637.8	601.7	571.3	546.7	517.7	506.2	514.8
72.5°	526.4	548.1	566.9	568.4	549.6	507.6	474.3	441.1	409.3	393.4	400.6
75°	399.2	413.6	432.5	436.8	409.3	380.4	348.5	313.8	289.2	270.4	273.3
77.5°	287.8	284.9	302.2	299.3	286.3	266.1	237.2	205.4	177.9	160.5	162.0
80°	196.7	201.0	211.2	209.7	193.8	180.8	159.1	133.0	112.8	98.3	95.4
82.5°	137.4	144.6	153.3	146.0	133.0	120.0	104.1	85.3	69.5	57.9	55.0
85°	49.2	56.4	65.1	69.5	73.8	70.9	59.3	47.8	34.7	28.9	27.5
87.5°	10.1	11.6	13.0	13.0	13.0	11.6	10.1	10.1	8.7	4.3	4.3
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)