

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: P647274

Luminaire Tested: **GALN-SA2D-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10305.1 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

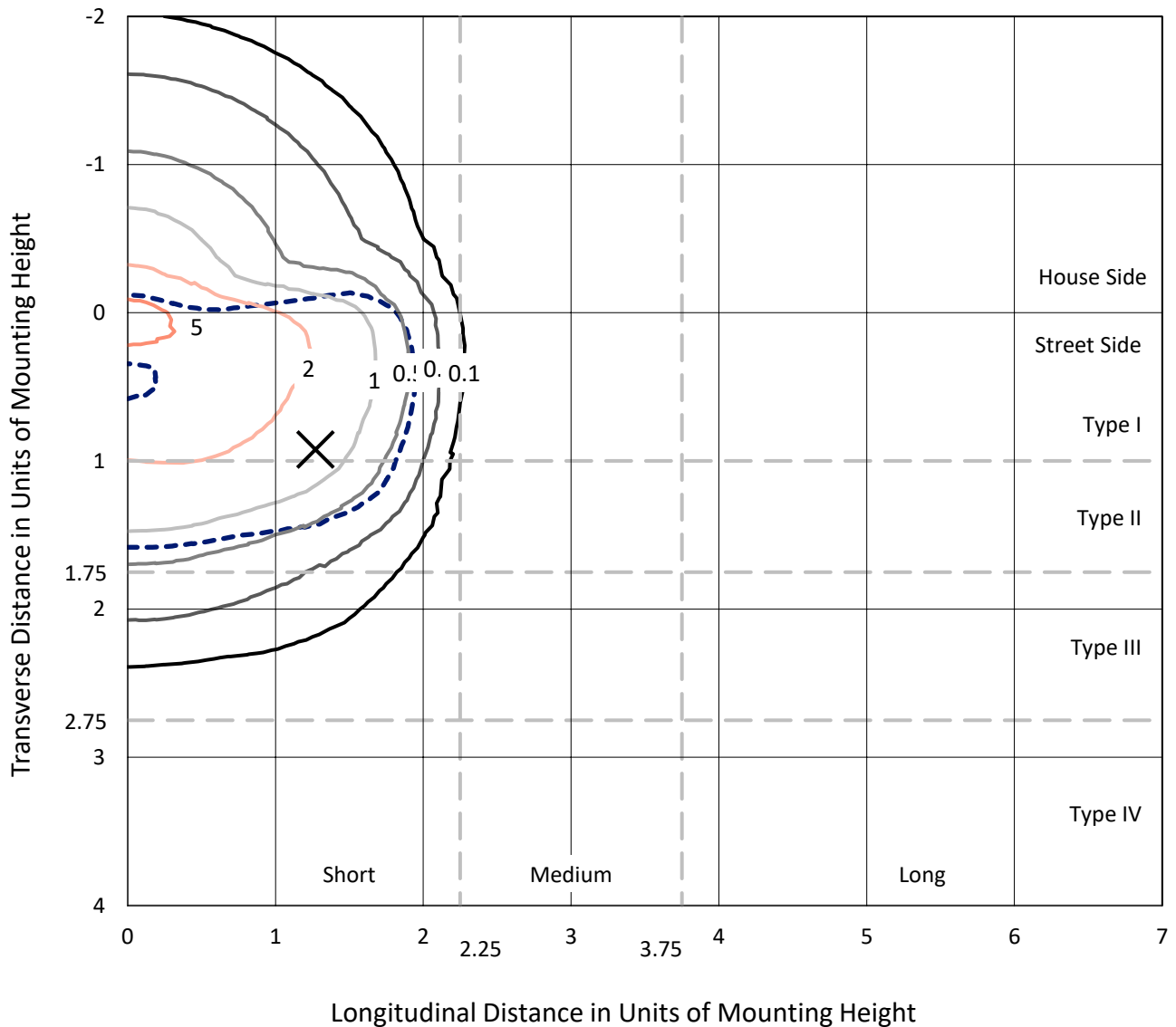
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

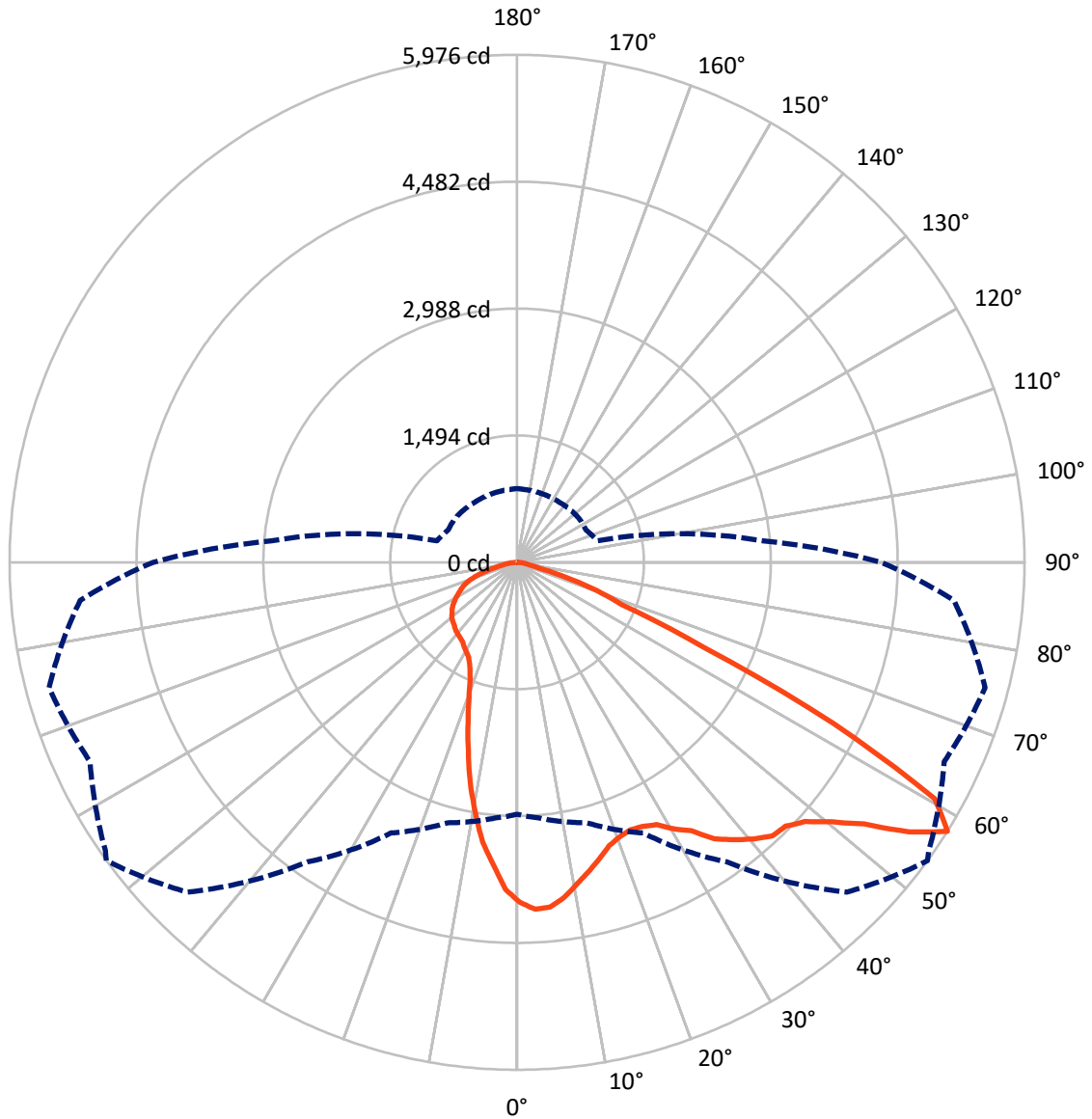
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2851.0	0.0	2851.0
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	7454.1	0.0	7454.1
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	10305.1	0.0	10305.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.4	3.4
10°-20°	799.8	7.8
20°-30°	1123.7	10.9
30°-40°	1571.0	15.2
40°-50°	2126.8	20.6
50°-60°	2590.6	25.1
60°-70°	1349.3	13.1
70°-80°	345.7	3.4
80°-90°	52.7	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°	10305.1	100.0
0°-180°	10305.1	100.0

**Coefficient of Utilization**



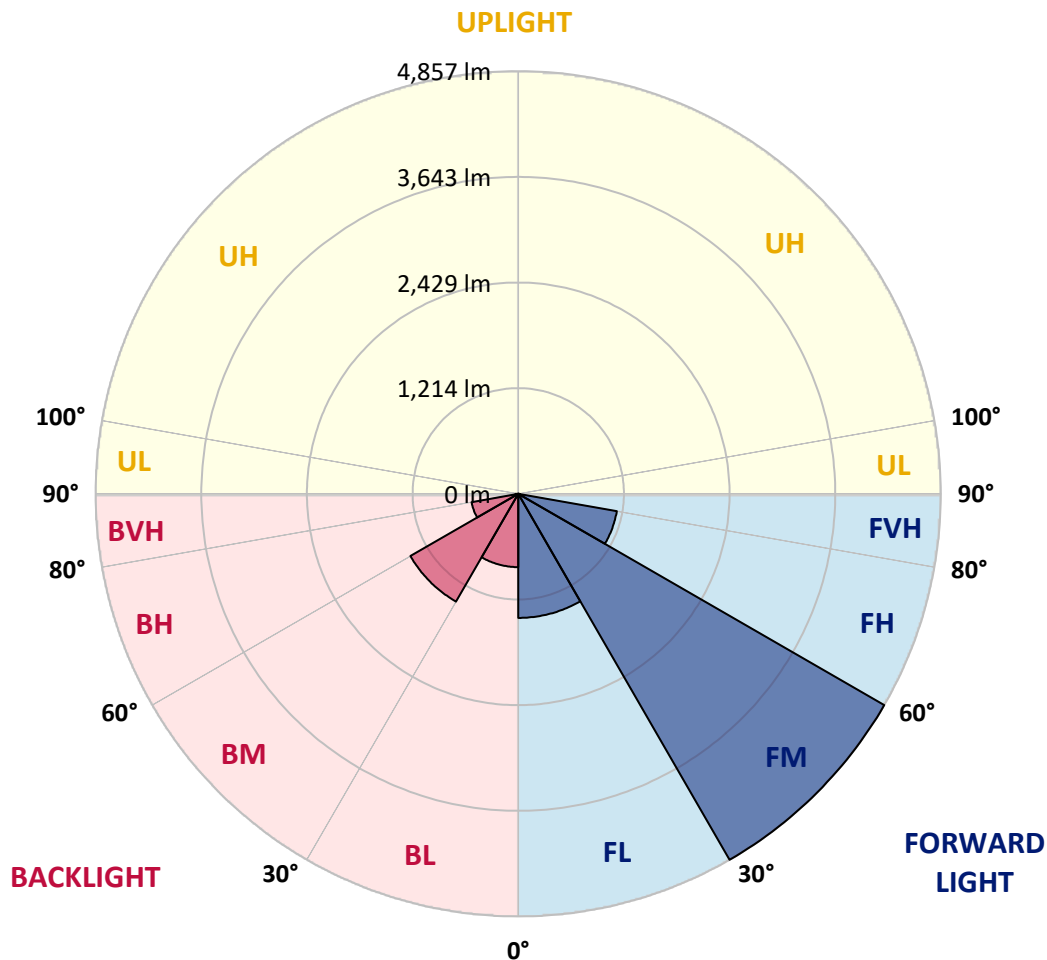
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.4	13.8			
FM (30°-60°)	4857.5	47.1			
FH (60°-80°)	1150.3	11.2			G1/1800
FVH (80°-90°)	19.9	0.2			G1/100
BL (0°-30°)	842.6	8.2	B2/1000		
BM (30°-60°)	1430.9	13.9	B2/2500		
BH (60°-80°)	544.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	32.8	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°	54°	55°	65°	75°	85°
0°	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4
2.5°	4119.4	4103.5	4106.1	4127.3	4100.8	4090.2	4090.2	4038.6	4042.6	4006.8	3997.5
5°	4024.0	3986.9	4012.1	4043.9	4049.2	4059.8	4077.0	4063.8	4026.7	3988.2	3926.0
7.5°	3775.0	3808.1	3817.4	3839.9	3887.6	3931.3	3985.6	3948.5	3947.2	3908.7	3871.7
10°	3556.5	3536.6	3586.9	3620.0	3699.5	3772.3	3855.8	3851.8	3871.7	3827.9	3764.4
12.5°	3339.2	3323.3	3347.2	3422.6	3533.9	3639.9	3739.2	3702.1	3808.1	3800.1	3663.7
15°	3108.7	3120.6	3155.1	3225.3	3371.0	3498.1	3624.0	3625.3	3719.3	3751.1	3568.4
17.5°	2947.1	2933.9	2977.6	3082.3	3212.0	3364.4	3507.4	3536.6	3681.0	3699.5	3539.2
20°	2826.6	2845.2	2902.1	2955.1	3104.8	3288.9	3450.4	3461.1	3673.0	3723.3	3492.9
22.5°	2797.5	2786.9	2805.4	2891.5	3014.7	3214.7	3420.0	3459.8	3671.6	3715.4	3405.4
25°	2767.0	2801.4	2800.1	2886.2	2976.3	3155.1	3445.2	3488.9	3741.9	3756.4	3417.3
27.5°	2835.9	2831.9	2869.0	2875.6	2986.9	3171.0	3498.1	3531.3	3858.5	3846.5	3426.6
30°	2904.8	2884.9	2907.4	2985.6	3037.2	3262.4	3643.8	3641.2	4009.4	4001.5	3455.8
32.5°	2989.5	2980.3	2994.8	3063.7	3151.1	3384.2	3767.0	3845.2	4163.1	4213.4	3556.5
35°	3005.4	3043.8	3078.3	3171.0	3295.5	3581.6	3998.9	4063.8	4340.6	4498.2	3748.5
37.5°	3106.1	3120.6	3201.5	3365.7	3479.6	3845.2	4145.8	4186.9	4502.2	4681.0	3951.2
40°	3213.4	3230.6	3352.4	3524.7	3681.0	4017.4	4283.6	4296.9	4553.8	4821.4	4083.6
42.5°	3359.1	3375.0	3495.5	3711.4	3920.7	4164.4	4405.5	4420.0	4549.9	4983.0	4294.2
45°	3510.1	3548.5	3690.2	3935.3	4123.4	4336.6	4433.3	4492.9	4587.0	5127.4	4465.1
47.5°	3722.0	3757.8	3874.4	4114.0	4334.0	4487.6	4561.8	4620.1	4675.7	5253.2	4575.0
50°	3947.2	3953.8	4095.6	4312.8	4474.4	4658.5	4801.5	4821.4	4792.3	5398.9	4761.8
52.5°	4112.8	4133.9	4243.9	4455.8	4696.9	4923.3	5119.4	5140.6	5083.6	5453.2	4825.4
55°	3838.6	3826.7	4005.4	4287.6	4846.5	5318.1	5602.9	5618.8	5295.6	5621.4	5033.3
57.5°	2967.0	3023.9	3176.3	3516.7	4306.1	5492.9	5976.4	5919.5	5549.9	5706.2	5165.8
60°	2156.4	2143.1	2245.1	2472.9	3245.1	4733.9	5650.6	5708.9	5341.9	5143.3	4259.8
62.5°	1756.3	1737.8	1745.8	1753.7	2094.1	3141.9	4182.9	4181.6	4114.0	3696.9	2873.0
65°	1404.0	1447.8	1451.7	1511.3	1555.0	1876.9	2423.9	2553.8	2224.0	1823.9	1323.3
67.5°	1058.3	1042.4	1095.4	1307.4	1389.4	1355.1	1323.3	1337.8	951.0	686.1	646.4
70°	623.9	617.2	680.8	911.3	1144.4	1076.9	997.4	998.7	653.0	479.5	533.8
72.5°	341.7	340.4	353.7	462.3	650.4	675.5	598.7	617.2	389.4	388.1	417.3
75°	190.7	186.7	182.8	204.0	234.4	247.7	253.0	255.6	267.6	299.3	311.2
77.5°	70.2	67.6	67.6	78.1	99.4	124.5	157.6	160.3	189.4	217.2	229.2
80°	23.8	26.5	35.8	49.0	66.2	88.7	107.3	109.9	133.8	152.3	156.3
82.5°	14.6	15.9	23.8	34.5	47.7	62.2	79.5	80.8	99.4	111.3	116.6
85°	6.7	7.9	13.2	21.2	30.5	41.0	42.4	42.4	41.0	42.4	39.7
87.5°	0.0	0.0	2.7	2.7	2.7	4.0	5.3	4.0	6.7	7.9	7.9
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°	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4	4005.4
2.5°	3969.7	3955.1	3910.1	3870.4	3858.5	3805.5	3727.3	3736.6	3679.6	3706.1	3678.3
5°	3915.4	3866.4	3751.1	3702.1	3573.7	3515.4	3475.7	3376.3	3329.9	3320.7	3280.9
7.5°	3776.3	3745.9	3601.5	3469.0	3332.6	3216.0	3066.4	2964.4	2891.5	2871.7	2813.4
10°	3666.4	3598.8	3398.8	3197.5	3002.8	2800.1	2605.4	2453.1	2378.9	2292.8	2263.7
12.5°	3557.8	3455.8	3185.6	2927.2	2675.6	2419.9	2184.2	1998.8	1837.2	1798.8	1785.5
15°	3490.2	3312.7	2994.8	2683.6	2325.9	1992.1	1756.3	1634.5	1535.1	1494.1	1523.2
17.5°	3401.4	3194.8	2812.1	2397.5	2004.1	1696.8	1499.4	1423.9	1388.1	1392.1	1380.2
20°	3290.2	3083.5	2572.3	2137.8	1716.6	1471.6	1359.0	1331.2	1336.5	1345.7	1341.7
22.5°	3210.7	2948.5	2398.8	1872.9	1483.5	1347.1	1300.7	1280.8	1298.1	1306.0	1299.4
25°	3149.8	2833.2	2188.2	1638.5	1348.4	1276.8	1255.7	1254.4	1280.8	1291.5	1284.8
27.5°	3094.2	2725.9	1978.9	1459.7	1258.4	1222.6	1215.9	1231.8	1249.0	1259.7	1268.9
30°	3061.1	2643.8	1782.9	1310.0	1213.3	1196.1	1184.1	1198.7	1208.0	1218.6	1213.3
32.5°	3092.8	2585.5	1593.4	1225.2	1176.2	1159.0	1174.9	1165.6	1181.5	1190.8	1176.2
35°	3192.2	2533.9	1458.3	1180.2	1133.8	1140.4	1143.1	1139.1	1145.8	1137.8	1155.0
37.5°	3290.2	2515.3	1333.8	1141.8	1114.0	1114.0	1111.3	1103.3	1116.6	1114.0	1121.9
40°	3414.7	2527.3	1227.9	1100.7	1095.4	1092.8	1082.2	1080.9	1075.5	1076.9	1079.5
42.5°	3523.3	2553.8	1166.9	1074.2	1078.2	1083.5	1063.6	1047.7	1054.3	1041.1	1041.1
45°	3638.5	2577.6	1112.6	1055.6	1051.7	1050.4	1034.5	1025.2	1019.9	1021.3	1033.2
47.5°	3820.0	2612.0	1071.5	1030.5	1033.2	1013.3	1009.3	997.4	1002.7	1010.6	1011.9
50°	3948.5	2684.9	1039.7	1001.4	1010.6	997.4	973.6	968.3	968.3	981.5	978.8
52.5°	4038.6	2786.9	1009.3	969.6	973.6	962.9	955.0	943.1	935.1	953.7	962.9
55°	4314.1	2956.4	1001.4	943.1	941.8	931.1	916.6	904.7	900.7	903.3	921.9
57.5°	4287.6	2903.4	976.2	896.7	894.1	879.5	864.9	861.0	859.7	862.3	867.6
60°	3480.9	2144.5	871.6	843.8	839.8	837.1	822.5	806.6	798.7	806.6	800.1
62.5°	2303.4	1435.8	768.3	780.2	782.8	776.2	752.4	736.5	739.1	748.4	733.8
65°	1131.2	843.8	696.7	728.5	731.2	712.6	690.1	671.6	662.3	670.2	663.6
67.5°	646.4	645.0	638.5	671.6	670.2	651.7	615.9	600.0	584.1	586.8	582.8
70°	548.3	559.0	572.2	592.1	590.8	569.6	527.2	515.2	492.7	490.1	483.4
72.5°	431.8	450.4	479.5	494.1	482.2	455.6	427.8	407.9	388.1	376.2	380.1
75°	320.6	347.0	362.9	372.2	353.7	339.1	316.6	292.8	268.9	258.3	254.3
77.5°	233.1	241.1	255.6	262.2	250.3	235.8	222.5	198.6	176.2	161.6	157.6
80°	162.9	168.2	178.8	178.8	178.8	172.2	155.0	131.2	116.6	103.3	100.7
82.5°	113.9	119.2	129.8	124.5	123.2	115.3	104.6	86.1	70.2	60.9	58.3
85°	39.7	43.7	53.0	63.6	67.6	66.2	59.6	47.7	37.1	30.5	27.8
87.5°	9.2	9.2	10.6	9.2	9.2	10.6	9.2	9.2	9.2	6.7	5.3
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)