

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: P650739

Luminaire Tested: **GALN-SA2C-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650739  
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-SA2C-840-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA 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: 10059.2 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

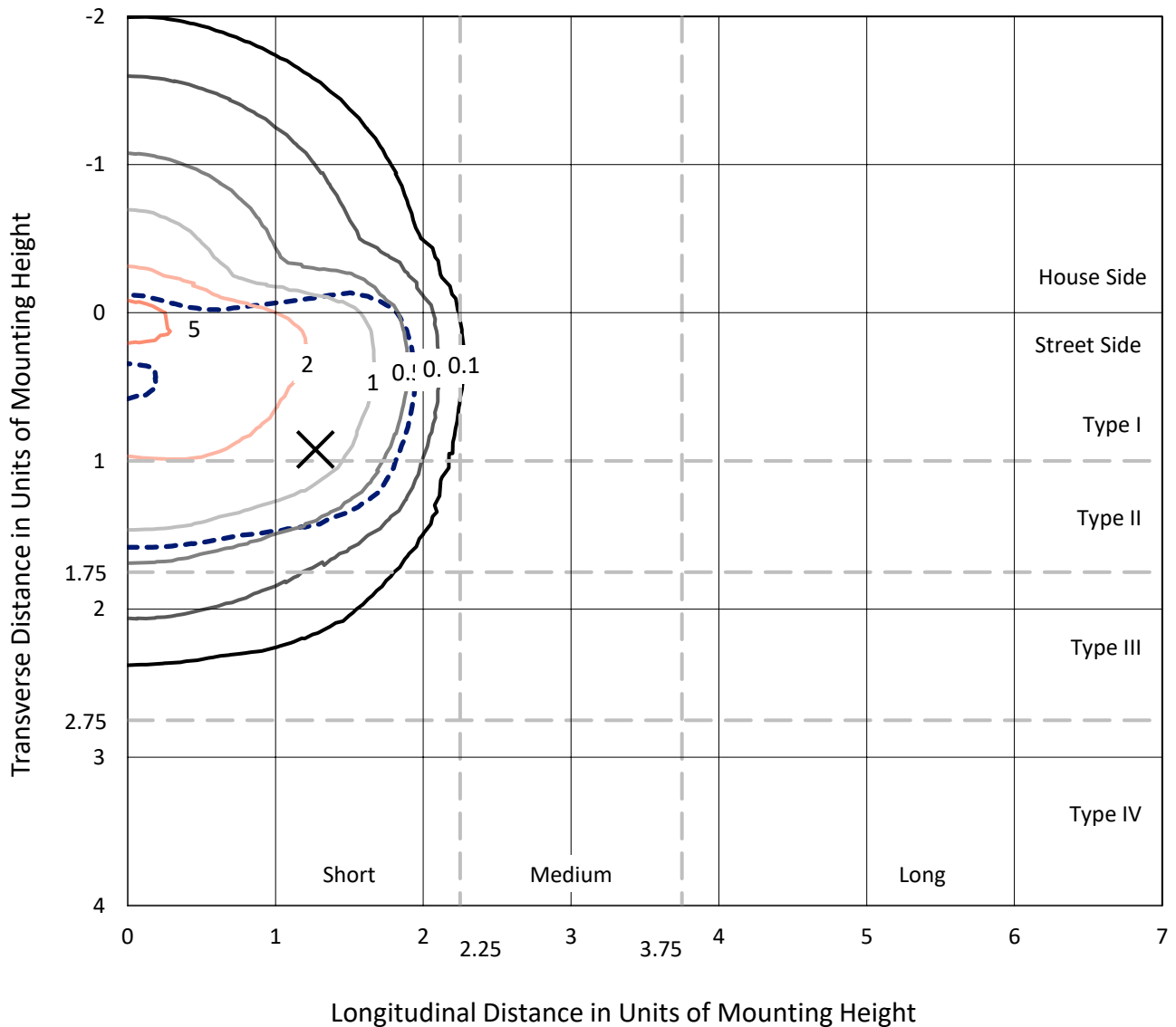
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

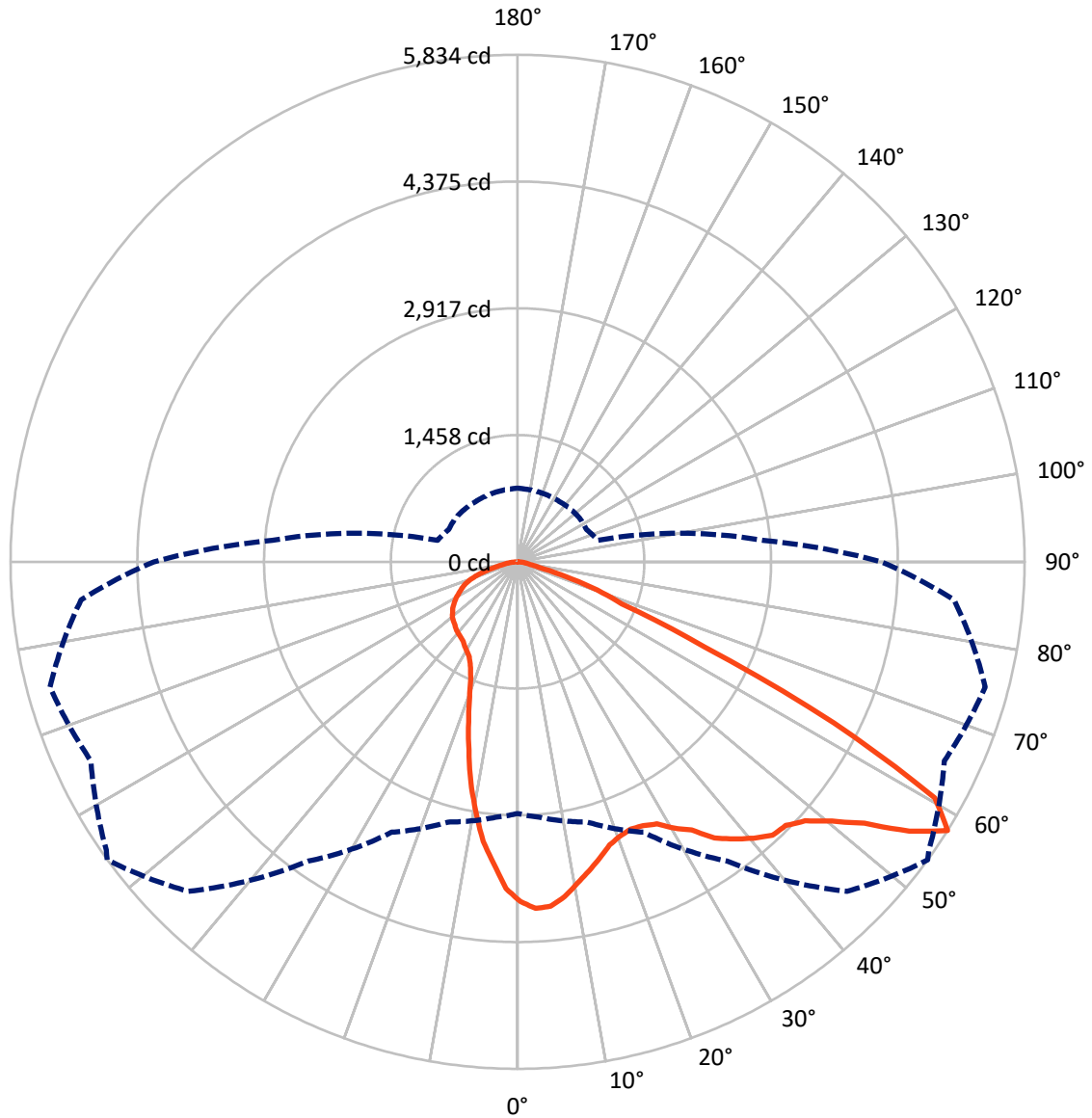
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2782.9	0.0	2782.9
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	7276.3	0.0	7276.3
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	10059.2	0.0	10059.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.2	3.4
10°-20°	780.7	7.8
20°-30°	1096.9	10.9
30°-40°	1533.5	15.2
40°-50°	2076.1	20.6
50°-60°	2528.7	25.1
60°-70°	1317.1	13.1
70°-80°	337.5	3.4
80°-90°	51.5	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°	10059.2	100.0
0°-180°	10059.2	100.0

**Coefficient of Utilization**



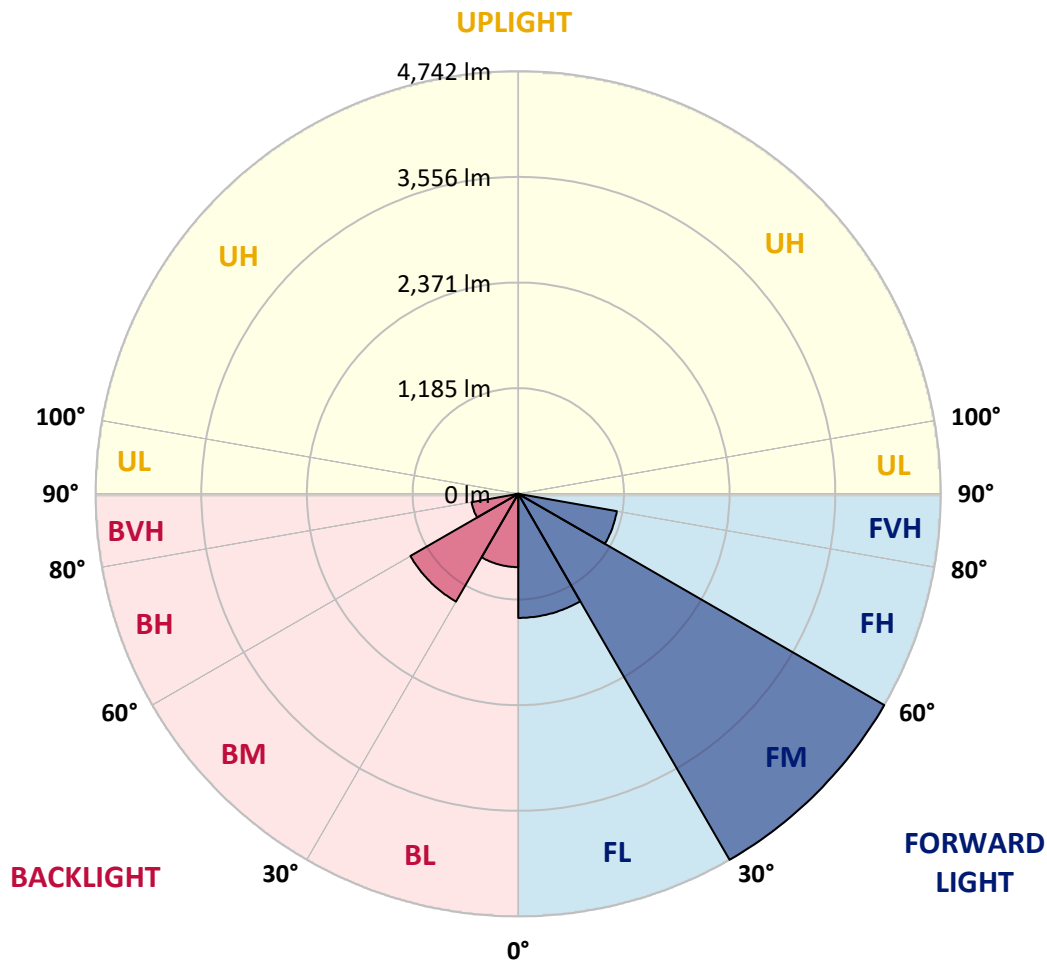
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.3	13.8			
FM (30°-60°)	4741.6	47.1			
FH (60°-80°)	1122.9	11.2			G1/1800
FVH (80°-90°)	19.5	0.2			G1/100
BL (0°-30°)	822.5	8.2	B2/1000		
BM (30°-60°)	1396.7	13.9	B2/2500		
BH (60°-80°)	531.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	32.0	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°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	4021.1	4005.6	4008.1	4028.8	4003.0	3992.6	3992.6	3942.2	3946.1	3911.2	3902.2
5°	3928.0	3891.8	3916.4	3947.4	3952.5	3962.9	3979.7	3966.7	3930.6	3893.1	3832.4
7.5°	3684.9	3717.2	3726.3	3748.3	3794.8	3837.5	3890.5	3854.3	3853.0	3815.5	3779.3
10°	3471.6	3452.2	3501.3	3533.6	3611.3	3682.3	3763.8	3759.9	3779.3	3736.6	3674.6
12.5°	3259.5	3244.0	3267.3	3341.0	3449.6	3553.1	3650.0	3613.8	3717.2	3709.5	3576.4
15°	3034.6	3046.2	3079.8	3148.4	3290.6	3414.7	3537.5	3538.8	3630.6	3661.6	3483.3
17.5°	2876.8	2863.9	2906.6	3008.7	3135.4	3284.1	3423.7	3452.2	3593.1	3611.3	3454.7
20°	2759.2	2777.2	2832.8	2884.5	3030.7	3210.4	3368.1	3378.5	3585.4	3634.5	3409.5
22.5°	2730.7	2720.4	2738.5	2822.5	2942.7	3138.0	3338.4	3377.2	3584.1	3626.7	3324.2
25°	2701.0	2734.6	2733.3	2817.4	2905.2	3079.8	3363.0	3405.6	3652.6	3666.8	3335.8
27.5°	2768.2	2764.4	2800.5	2807.0	2915.6	3095.3	3414.7	3447.0	3766.4	3754.7	3344.9
30°	2835.4	2816.1	2838.0	2914.3	2964.8	3184.5	3556.9	3554.3	3913.8	3906.0	3373.3
32.5°	2918.2	2909.2	2923.4	2990.6	3076.0	3303.5	3677.2	3753.5	4063.8	4112.9	3471.6
35°	2933.7	2971.2	3004.8	3095.3	3216.9	3496.1	3903.4	3966.7	4237.0	4390.9	3659.0
37.5°	3032.0	3046.2	3125.1	3285.4	3396.6	3753.5	4047.0	4087.0	4394.7	4569.3	3856.9
40°	3136.7	3153.5	3272.5	3440.5	3593.1	3921.5	4181.5	4194.3	4445.2	4706.3	3986.2
42.5°	3279.0	3294.4	3412.1	3622.9	3827.1	4065.1	4300.4	4314.6	4441.3	4864.1	4191.8
45°	3426.3	3463.8	3602.2	3841.4	4024.9	4233.2	4327.5	4385.7	4477.5	5005.0	4358.6
47.5°	3633.2	3668.1	3781.9	4015.9	4230.6	4380.5	4452.9	4509.9	4564.1	5127.8	4465.9
50°	3853.0	3859.4	3997.8	4209.9	4367.6	4547.3	4687.0	4706.3	4677.9	5270.1	4648.2
52.5°	4014.6	4035.3	4142.6	4349.5	4584.8	4805.9	4997.3	5018.0	4962.3	5323.1	4710.3
55°	3747.0	3735.4	3909.9	4185.3	4731.0	5191.2	5469.2	5484.7	5169.2	5487.3	4913.2
57.5°	2896.2	2951.8	3100.5	3432.8	4203.4	5361.9	5833.8	5778.2	5417.5	5570.0	5042.6
60°	2104.9	2092.0	2191.6	2413.9	3167.7	4621.0	5515.8	5572.6	5214.5	5020.5	4158.2
62.5°	1714.5	1696.4	1704.1	1711.9	2044.1	3066.9	4083.1	4081.9	4015.9	3608.6	2804.4
65°	1370.5	1413.2	1417.1	1475.3	1517.9	1832.1	2366.1	2492.8	2170.9	1780.4	1291.7
67.5°	1033.1	1017.5	1069.2	1276.1	1356.3	1322.7	1291.7	1305.9	928.4	669.8	631.0
70°	609.0	602.5	664.6	889.5	1117.1	1051.2	973.6	974.9	637.4	468.0	521.1
72.5°	333.5	332.3	345.2	451.3	634.9	659.4	584.4	602.5	380.1	378.9	407.3
75°	186.2	182.3	178.5	199.1	228.8	241.8	246.9	249.5	261.2	292.2	303.9
77.5°	68.5	65.9	65.9	76.3	97.0	121.5	153.9	156.4	184.9	212.0	223.7
80°	23.3	25.8	34.9	47.9	64.7	86.6	104.7	107.3	130.6	148.7	152.6
82.5°	14.2	15.5	23.3	33.6	46.5	60.8	77.5	78.9	97.0	108.6	113.8
85°	6.5	7.7	13.0	20.7	29.8	40.1	41.4	41.4	40.1	41.4	38.8
87.5°	0.0	0.0	2.6	2.6	2.6	3.9	5.1	3.9	6.5	7.7	7.7
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°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	3875.0	3860.8	3816.8	3778.0	3766.4	3714.7	3638.3	3647.4	3591.8	3617.7	3590.6
5°	3822.0	3774.2	3661.6	3613.8	3488.4	3431.5	3392.7	3295.7	3250.5	3241.5	3202.6
7.5°	3686.2	3656.5	3515.5	3386.3	3253.1	3139.3	2993.2	2893.6	2822.5	2803.1	2746.2
10°	3578.9	3512.9	3317.7	3121.2	2931.1	2733.3	2543.3	2394.6	2322.2	2238.1	2209.6
12.5°	3472.9	3373.3	3109.6	2857.5	2611.8	2362.2	2132.1	1951.0	1793.3	1755.8	1742.9
15°	3407.0	3233.6	2923.4	2619.5	2270.4	1944.6	1714.5	1595.5	1498.5	1458.5	1486.9
17.5°	3320.3	3118.6	2744.9	2340.3	1956.3	1656.3	1463.6	1389.9	1355.0	1358.9	1347.3
20°	3211.7	3010.0	2510.9	2086.9	1675.7	1436.5	1326.6	1299.4	1304.6	1313.6	1309.8
22.5°	3134.2	2878.2	2341.5	1828.2	1448.1	1314.9	1269.7	1250.3	1267.1	1274.9	1268.4
25°	3074.6	2765.6	2136.0	1599.4	1316.2	1246.4	1225.8	1224.4	1250.3	1260.7	1254.2
27.5°	3020.4	2660.9	1931.7	1424.8	1228.3	1193.4	1186.9	1202.5	1219.3	1229.6	1238.6
30°	2988.0	2580.8	1740.3	1278.7	1184.4	1167.6	1155.9	1170.1	1179.2	1189.5	1184.4
32.5°	3019.0	2523.8	1555.4	1196.0	1148.1	1131.3	1146.9	1137.8	1153.3	1162.3	1148.1
35°	3116.0	2473.5	1423.6	1152.0	1106.8	1113.2	1115.8	1112.0	1118.4	1110.6	1127.4
37.5°	3211.7	2455.3	1302.0	1114.5	1087.4	1087.4	1084.8	1077.1	1089.9	1087.4	1095.2
40°	3333.2	2467.0	1198.6	1074.5	1069.2	1066.7	1056.4	1055.0	1049.9	1051.2	1053.8
42.5°	3439.3	2492.8	1139.1	1048.6	1052.4	1057.6	1038.2	1022.7	1029.2	1016.3	1016.3
45°	3551.7	2516.1	1086.1	1030.5	1026.6	1025.3	1009.8	1000.7	995.6	996.8	1008.5
47.5°	3728.9	2549.7	1046.0	1005.9	1008.5	989.1	985.2	973.6	978.8	986.5	987.8
50°	3854.3	2620.8	1015.0	977.5	986.5	973.6	950.3	945.1	945.1	958.1	955.5
52.5°	3942.2	2720.4	985.2	946.5	950.3	940.0	932.2	920.6	912.8	930.9	940.0
55°	4211.1	2885.9	977.5	920.6	919.3	909.0	894.7	883.0	879.2	881.8	899.9
57.5°	4185.3	2834.2	952.9	875.3	872.7	858.5	844.3	840.4	839.1	841.7	846.9
60°	3397.9	2093.3	850.8	823.6	819.7	817.1	802.9	787.4	779.7	787.4	781.0
62.5°	2248.4	1401.5	749.9	761.5	764.1	757.7	734.4	718.9	721.5	730.5	716.3
65°	1104.1	823.6	680.1	711.1	713.7	695.6	673.6	655.6	646.5	654.2	647.7
67.5°	631.0	629.7	623.2	655.6	654.2	636.1	601.2	585.7	570.2	572.8	568.9
70°	535.3	545.6	558.6	577.9	576.7	556.0	514.6	502.9	481.0	478.4	472.0
72.5°	421.5	439.6	468.0	482.3	470.6	444.8	417.6	398.2	378.9	367.2	371.0
75°	312.9	338.8	354.2	363.3	345.2	331.0	309.0	285.8	262.5	252.1	248.3
77.5°	227.6	235.3	249.5	256.0	244.4	230.2	217.2	193.9	172.0	157.8	153.9
80°	159.0	164.2	174.5	174.5	174.5	168.1	151.3	128.0	113.8	100.8	98.2
82.5°	111.2	116.4	126.7	121.5	120.3	112.5	102.2	84.0	68.5	59.5	56.9
85°	38.8	42.6	51.7	62.1	65.9	64.7	58.2	46.5	36.2	29.8	27.2
87.5°	9.1	9.1	10.3	9.1	9.1	10.3	9.1	9.1	9.1	6.5	5.1
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)