

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: P528312

Luminaire Tested: **GALN-SA3B-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528312
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-SA3B-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 10564 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

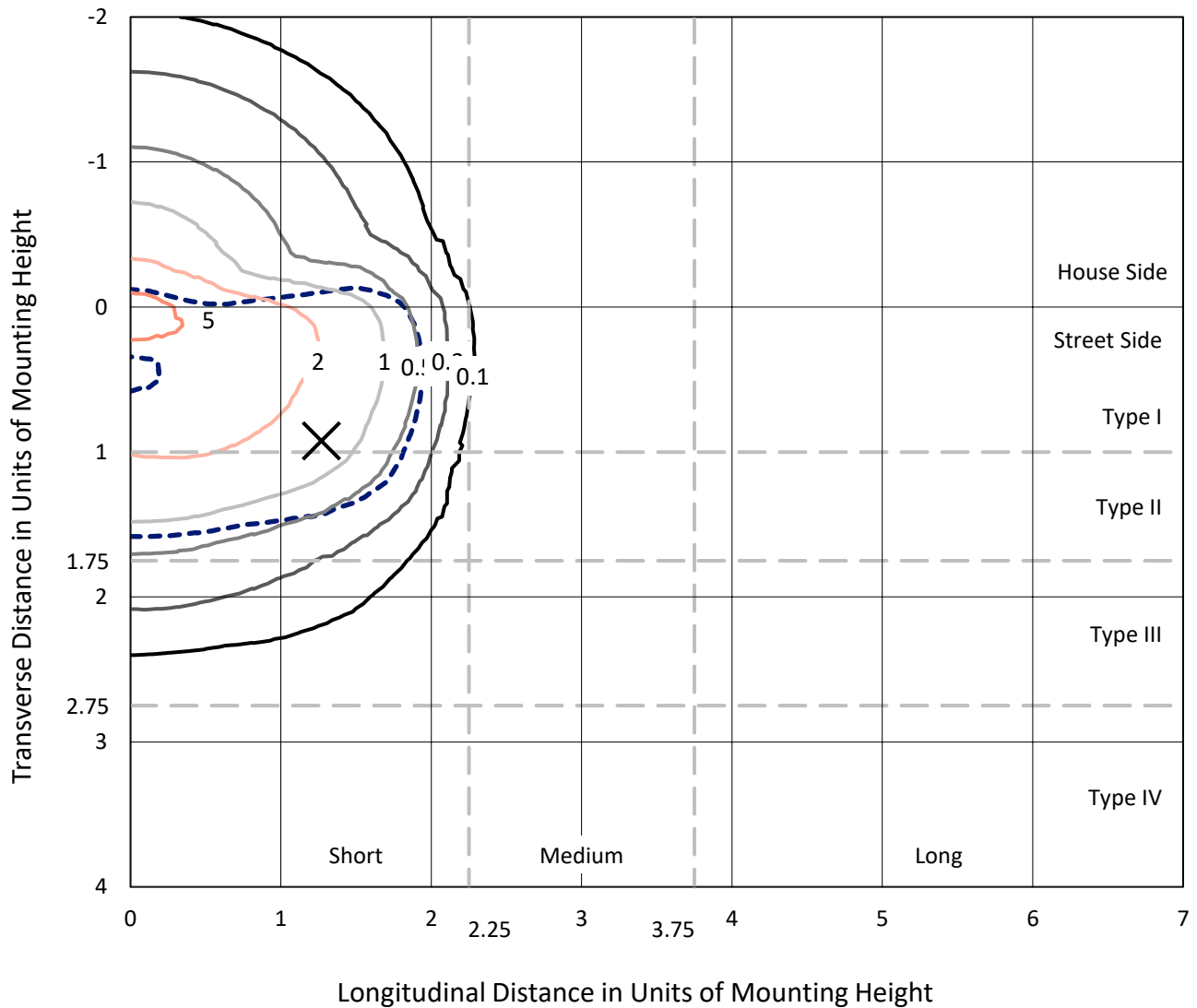
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

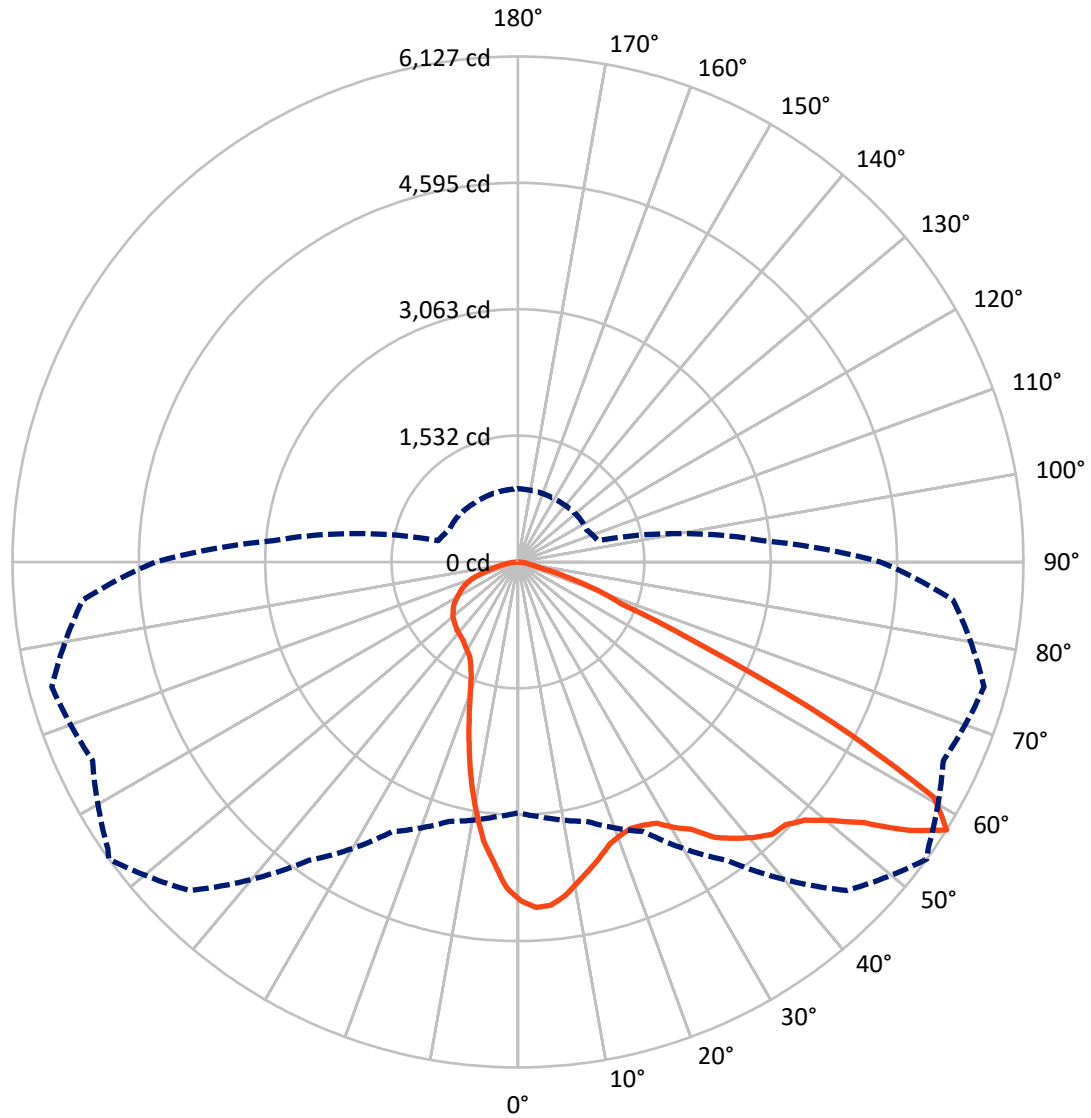
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
House Side	Lumens	2922.6	0.0	2922.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	7641.4	0.0	7641.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	10564.0	0.0	10564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	3.4
10°-20°	819.9	7.8
20°-30°	1152.0	10.9
30°-40°	1610.5	15.2
40°-50°	2180.3	20.6
50°-60°	2655.6	25.1
60°-70°	1383.2	13.1
70°-80°	354.4	3.4
80°-90°	54.1	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°	10564.0	100.0
0°-180°	10564.0	100.0

Coefficient of Utilization



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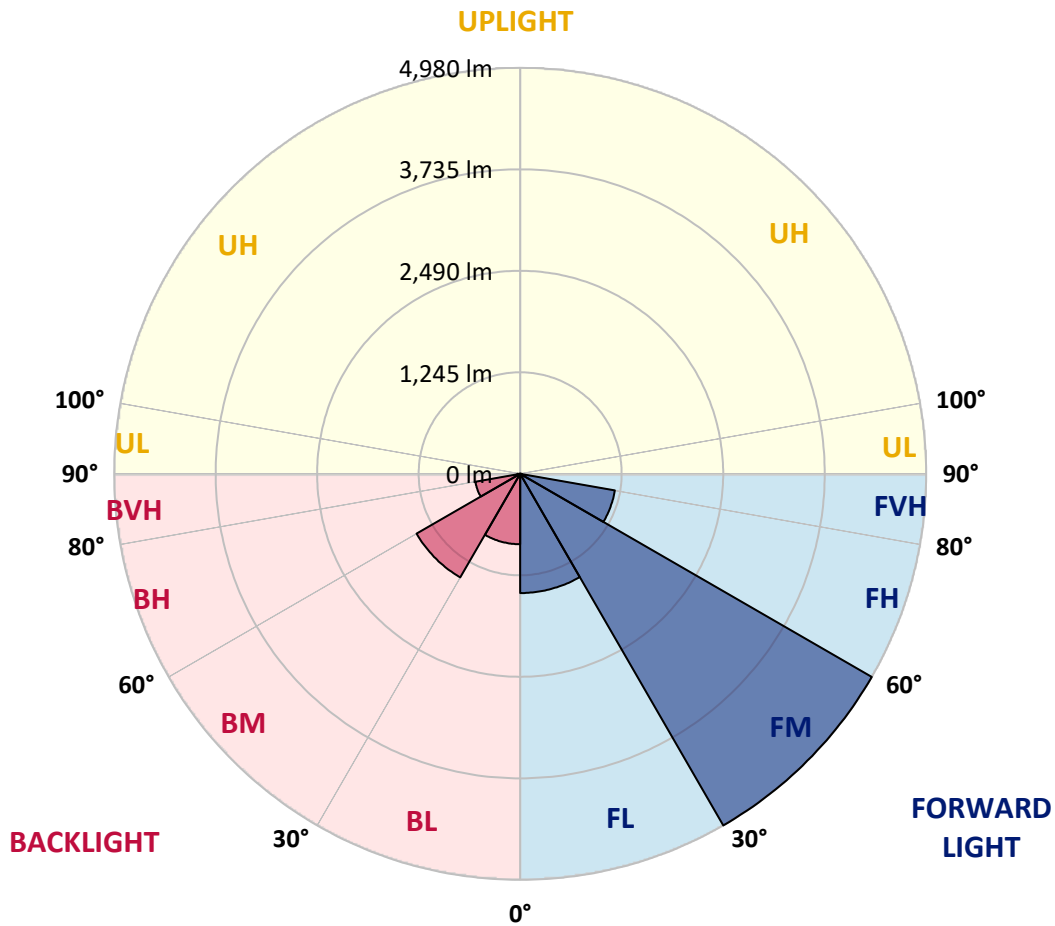
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1462.2	13.8			
FM (30°-60°)	4979.5	47.1			
FH (60°-80°)	1179.2	11.2			G1/1800
FVH (80°-90°)	20.4	0.2			G1/100
BL (0°-30°)	863.8	8.2	B2/1000		
BM (30°-60°)	1466.8	13.9	B2/2500		
BH (60°-80°)	558.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	33.6	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°	54°	55°	65°	75°	85°
0°	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1
2.5°	4222.9	4206.6	4209.3	4231.0	4203.9	4193.0	4193.0	4140.1	4144.1	4107.5	4098.0
5°	4125.1	4087.1	4112.9	4145.5	4150.9	4161.8	4179.4	4165.9	4127.8	4088.5	4024.6
7.5°	3869.8	3903.8	3913.3	3936.4	3985.3	4030.1	4085.7	4047.7	4046.4	4007.0	3969.0
10°	3645.8	3625.4	3677.0	3711.0	3792.4	3867.1	3952.7	3948.6	3969.0	3924.2	3859.0
12.5°	3423.1	3406.8	3431.3	3508.7	3622.7	3731.3	3833.2	3795.2	3903.8	3895.6	3755.8
15°	3186.8	3199.1	3234.4	3306.3	3455.7	3586.1	3715.0	3716.4	3812.8	3845.4	3658.0
17.5°	3021.2	3007.6	3052.4	3159.7	3292.8	3448.9	3595.6	3625.4	3773.4	3792.4	3628.1
20°	2897.6	2916.6	2975.0	3029.3	3182.8	3371.5	3537.2	3548.0	3765.3	3816.9	3580.6
22.5°	2867.8	2856.9	2875.9	2964.2	3090.4	3295.5	3505.9	3546.7	3763.9	3808.7	3491.0
25°	2836.5	2871.8	2870.5	2958.7	3051.1	3234.4	3531.7	3576.5	3835.9	3850.8	3503.2
27.5°	2907.1	2903.1	2941.1	2947.9	3061.9	3250.7	3586.1	3620.0	3955.4	3943.2	3512.7
30°	2977.7	2957.4	2980.5	3060.6	3113.5	3344.4	3735.4	3732.7	4110.2	4102.0	3542.6
32.5°	3064.6	3055.1	3070.1	3140.7	3230.3	3469.3	3861.7	3941.8	4267.7	4319.3	3645.8
35°	3080.9	3120.3	3155.6	3250.7	3378.3	3671.6	4099.3	4165.9	4449.6	4611.2	3842.7
37.5°	3184.1	3199.1	3281.9	3450.3	3567.0	3941.8	4250.0	4292.1	4615.3	4798.6	4050.4
40°	3294.1	3311.8	3436.7	3613.2	3773.4	4118.3	4391.3	4404.8	4668.3	4942.5	4186.2
42.5°	3443.5	3459.8	3583.3	3804.7	4019.2	4269.0	4516.2	4531.1	4664.2	5108.2	4402.1
45°	3598.3	3637.7	3782.9	4034.1	4227.0	4445.6	4544.7	4605.8	4702.2	5256.2	4577.3
47.5°	3815.5	3852.2	3971.7	4217.4	4442.8	4600.4	4676.4	4736.1	4793.2	5385.2	4690.0
50°	4046.4	4053.2	4198.4	4421.1	4586.8	4775.5	4922.2	4942.5	4912.7	5534.6	4881.4
52.5°	4216.1	4237.8	4350.5	4567.8	4814.9	5047.1	5248.0	5269.8	5211.4	5590.2	4946.6
55°	3935.0	3922.8	4106.1	4395.3	4968.3	5451.7	5743.7	5760.0	5428.6	5762.7	5159.8
57.5°	3041.6	3099.9	3256.1	3605.1	4414.3	5631.0	6126.6	6068.2	5689.3	5849.6	5295.6
60°	2210.6	2197.0	2301.5	2535.1	3326.7	4852.9	5792.5	5852.3	5476.2	5272.5	4366.8
62.5°	1800.5	1781.5	1789.6	1797.8	2146.7	3220.8	4288.1	4286.7	4217.4	3789.7	2945.2
65°	1439.3	1484.1	1488.2	1549.3	1594.1	1924.1	2484.8	2617.9	2279.8	1869.7	1356.5
67.5°	1084.9	1068.6	1122.9	1340.2	1424.4	1389.1	1356.5	1371.4	974.9	703.4	662.6
70°	639.5	632.8	697.9	934.2	1173.2	1103.9	1022.5	1023.8	669.4	491.5	547.2
72.5°	350.3	349.0	362.5	473.9	666.7	692.5	613.7	632.8	399.2	397.8	427.7
75°	195.5	191.5	187.4	209.1	240.3	253.9	259.3	262.1	274.3	306.9	319.1
77.5°	72.0	69.2	69.2	80.1	101.8	127.6	161.6	164.3	194.2	222.7	234.9
80°	24.4	27.2	36.7	50.2	67.9	91.0	110.0	112.7	137.1	156.2	160.2
82.5°	14.9	16.3	24.4	35.3	48.9	63.8	81.5	82.8	101.8	114.1	119.5
85°	6.8	8.1	13.6	21.7	31.2	42.1	43.5	43.5	42.1	43.5	40.7
87.5°	0.0	0.0	2.7	2.7	2.7	4.1	5.4	4.1	6.8	8.1	8.1
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°	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1	4106.1
2.5°	4069.4	4054.5	4008.3	3967.6	3955.4	3901.1	3821.0	3830.5	3772.1	3799.2	3770.7
5°	4013.8	3963.5	3845.4	3795.2	3663.5	3603.7	3563.0	3461.1	3413.6	3404.1	3363.4
7.5°	3871.2	3840.0	3692.0	3556.2	3416.3	3296.8	3143.4	3038.8	2964.2	2943.8	2884.1
10°	3758.5	3689.2	3484.2	3277.8	3078.2	2870.5	2670.9	2514.7	2438.7	2350.4	2320.5
12.5°	3647.2	3542.6	3265.6	3000.8	2742.8	2480.8	2239.1	2049.0	1883.3	1843.9	1830.4
15°	3577.9	3396.0	3070.1	2751.0	2384.4	2042.2	1800.5	1675.6	1573.7	1531.6	1561.5
17.5°	3486.9	3275.1	2882.7	2457.7	2054.4	1739.4	1537.1	1459.7	1423.0	1427.1	1414.9
20°	3372.9	3161.0	2636.9	2191.6	1759.8	1508.6	1393.1	1364.6	1370.1	1379.6	1375.5
22.5°	3291.4	3022.6	2459.0	1920.0	1520.8	1380.9	1333.4	1313.0	1330.7	1338.8	1332.0
25°	3228.9	2904.4	2243.2	1679.6	1382.3	1309.0	1287.2	1285.9	1313.0	1323.9	1317.1
27.5°	3171.9	2794.4	2028.6	1496.3	1289.9	1253.3	1246.5	1262.8	1280.4	1291.3	1300.8
30°	3138.0	2710.2	1827.7	1342.9	1243.8	1226.1	1213.9	1228.8	1238.3	1249.2	1243.8
32.5°	3170.6	2650.5	1633.5	1256.0	1205.8	1188.1	1204.4	1194.9	1211.2	1220.7	1205.8
35°	3272.4	2597.5	1495.0	1209.8	1162.3	1169.1	1171.8	1167.7	1174.5	1166.4	1184.0
37.5°	3372.9	2578.5	1367.3	1170.5	1141.9	1141.9	1139.2	1131.1	1144.7	1141.9	1150.1
40°	3500.5	2590.8	1258.7	1128.4	1122.9	1120.2	1109.4	1108.0	1102.6	1103.9	1106.6
42.5°	3611.9	2617.9	1196.3	1101.2	1105.3	1110.7	1090.3	1074.1	1080.8	1067.3	1067.3
45°	3730.0	2642.4	1140.6	1082.2	1078.1	1076.8	1060.5	1051.0	1045.5	1046.9	1059.1
47.5°	3916.0	2677.7	1098.5	1056.4	1059.1	1038.7	1034.7	1022.5	1027.9	1036.0	1037.4
50°	4047.7	2752.3	1065.9	1026.5	1036.0	1022.5	998.0	992.6	992.6	1006.2	1003.4
52.5°	4140.1	2856.9	1034.7	993.9	998.0	987.1	979.0	966.8	958.6	977.6	987.1
55°	4422.5	3030.7	1026.5	966.8	965.4	954.6	939.6	927.4	923.3	926.0	945.1
57.5°	4395.3	2976.4	1000.7	919.3	916.5	901.6	886.7	882.6	881.2	884.0	889.4
60°	3568.4	2198.3	893.5	864.9	860.9	858.2	843.2	826.9	818.8	826.9	820.1
62.5°	2361.3	1471.9	787.5	799.8	802.5	795.7	771.3	755.0	757.7	767.2	752.2
65°	1159.6	864.9	714.2	746.8	749.5	730.5	707.4	688.4	678.9	687.1	680.3
67.5°	662.6	661.3	654.5	688.4	687.1	668.1	631.4	615.1	598.8	601.5	597.4
70°	562.1	573.0	586.6	607.0	605.6	583.9	540.4	528.2	505.1	502.4	495.6
72.5°	442.7	461.7	491.5	506.5	494.3	467.1	438.6	418.2	397.8	385.6	389.7
75°	328.6	355.8	372.0	381.6	362.5	347.6	324.5	300.1	275.6	264.8	260.7
77.5°	239.0	247.1	262.1	268.9	256.6	241.7	228.1	203.7	180.6	165.7	161.6
80°	167.0	172.4	183.3	183.3	183.3	176.5	158.9	134.4	119.5	105.9	103.2
82.5°	116.8	122.2	133.1	127.6	126.3	118.1	107.3	88.3	72.0	62.5	59.7
85°	40.7	44.8	54.3	65.2	69.2	67.9	61.1	48.9	38.0	31.2	28.5
87.5°	9.5	9.5	10.9	9.5	9.5	10.9	9.5	9.5	9.5	6.8	5.4
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)