

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: P451852

Luminaire Tested: **GALN-SA2D-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14043 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

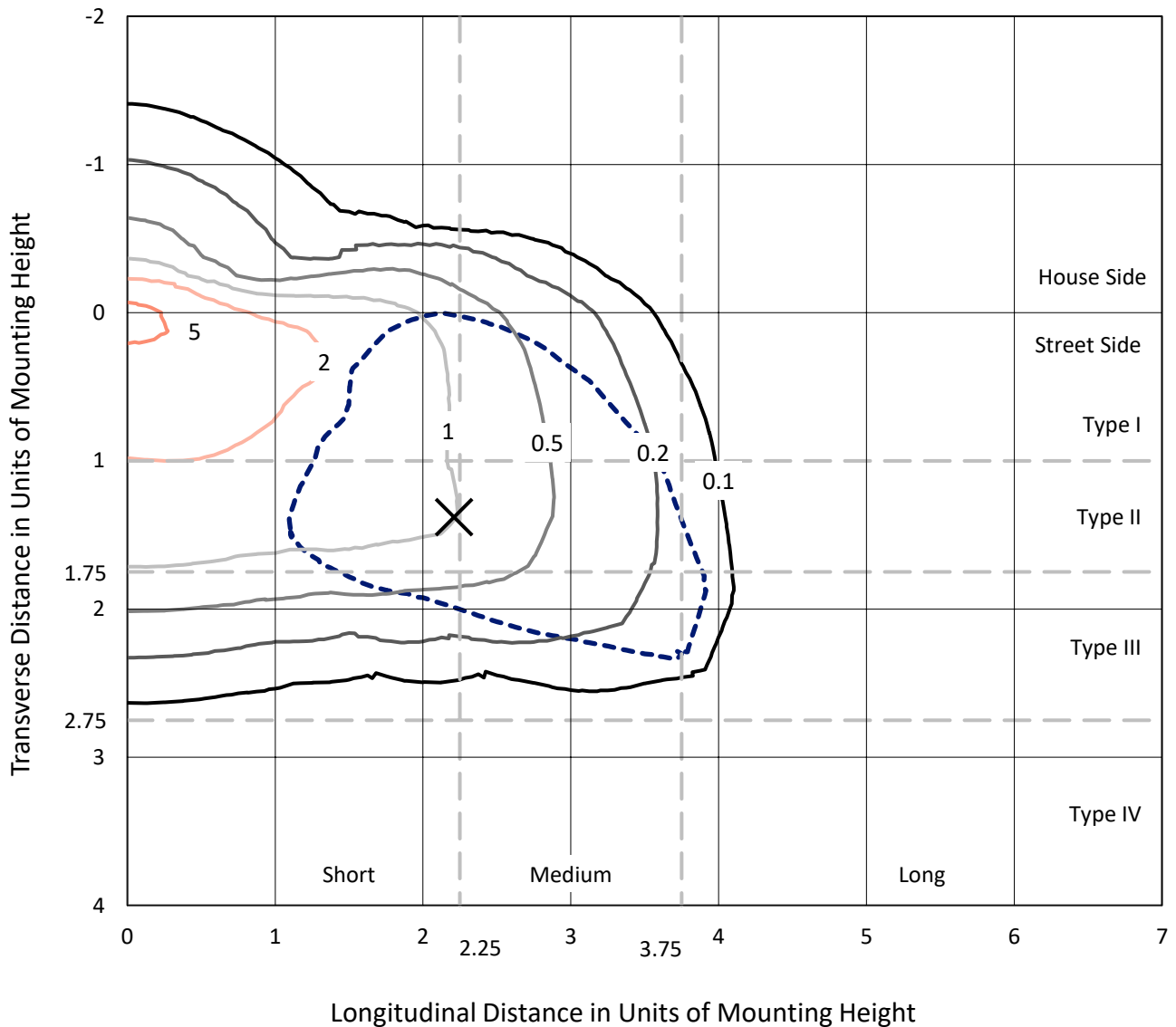
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

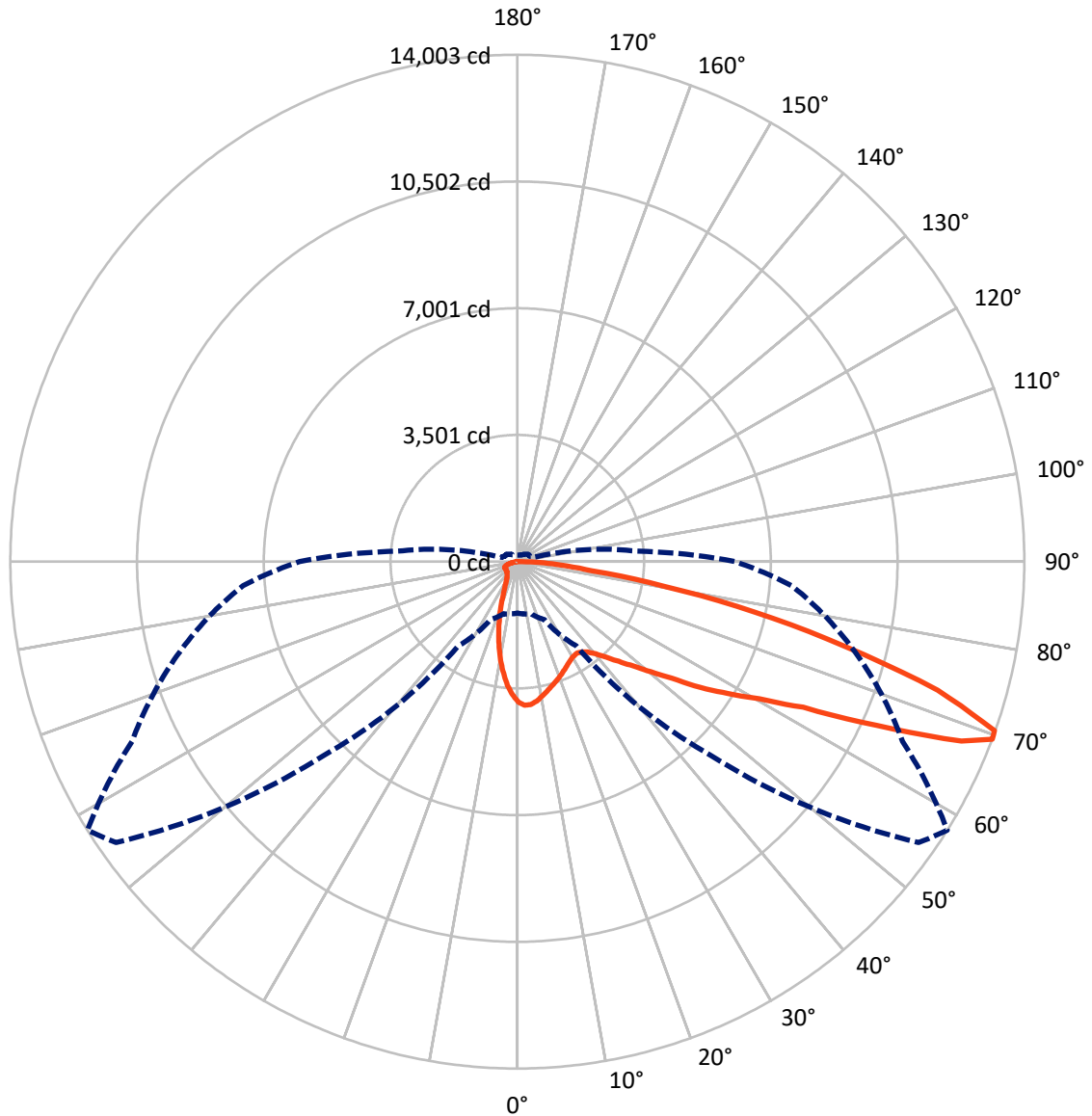
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2058.0	0.0	2058.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	11985.0	0.0	11985.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	14043.0	0.0	14043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.6	2.3
10°-20°	723.7	5.2
20°-30°	935.0	6.7
30°-40°	1214.4	8.6
40°-50°	1765.5	12.6
50°-60°	2817.2	20.1
60°-70°	3763.4	26.8
70°-80°	2169.4	15.4
80°-90°	324.9	2.3
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°	14043.0	100.0
0°-180°	14043.0	100.0

Coefficient of Utilization



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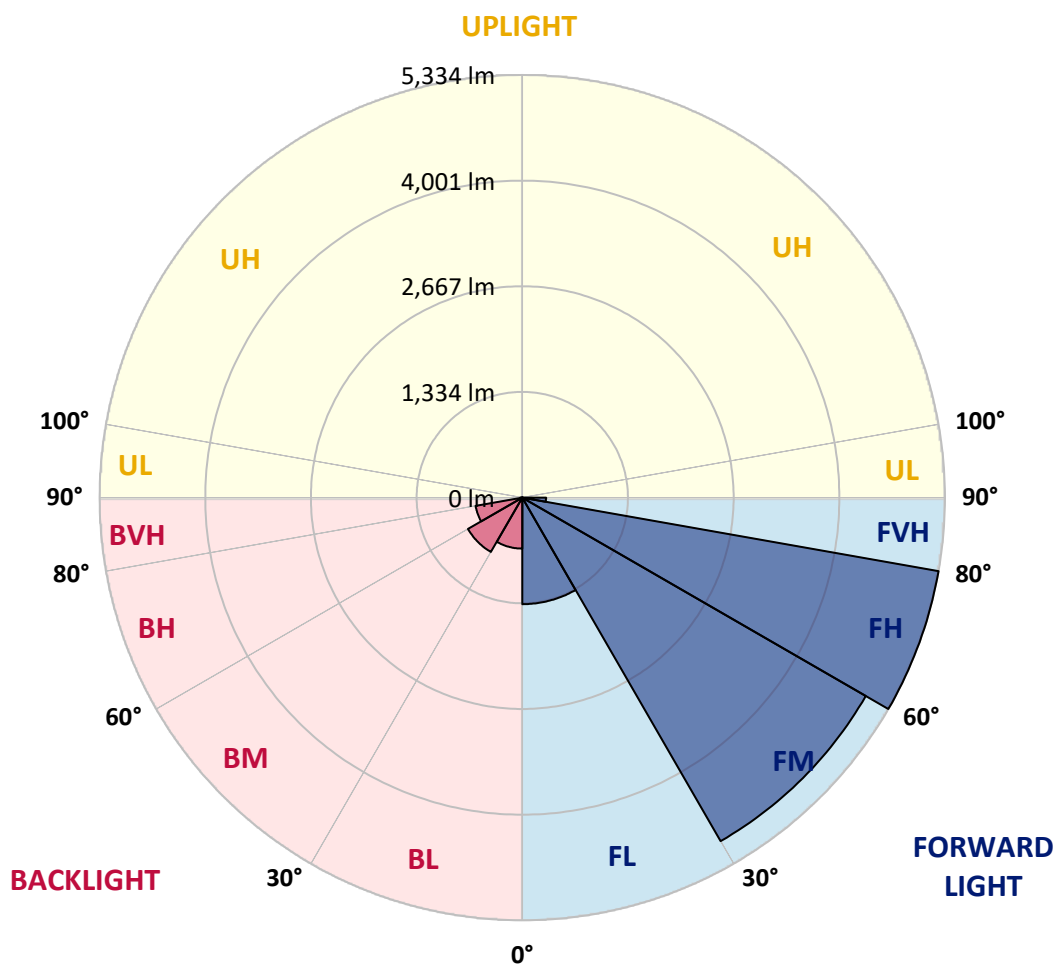
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1345.0	9.6			
FM	(30°-60°)	5005.6	35.6			
FH	(60°-80°)	5334.4	38.0			G3/7500
FVH	(80°-90°)	300.0	2.1			G3/500
BL	(0°-30°)	643.2	4.6	B2/1000		
BM	(30°-60°)	791.4	5.6	B1/1000		
BH	(60°-80°)	598.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	24.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7
2.5°	4024.8	4035.7	4032.6	4028.7	4022.4	4005.2	3977.0	3972.3	3954.3	3915.9	3868.1
5°	3962.9	3972.3	3973.1	3978.6	3986.4	3983.3	3962.9	3960.5	3933.9	3882.2	3802.3
7.5°	3750.7	3763.2	3790.6	3821.1	3848.6	3874.4	3880.7	3884.6	3868.1	3808.6	3702.1
10°	3511.8	3524.3	3536.8	3582.3	3649.6	3713.8	3767.1	3774.2	3778.1	3723.2	3593.2
12.5°	3247.1	3272.9	3299.5	3366.9	3457.0	3558.0	3652.0	3666.9	3693.5	3652.0	3499.3
15°	3022.3	3048.9	3087.3	3147.6	3256.5	3402.1	3534.5	3558.8	3611.2	3590.1	3411.5
17.5°	2866.4	2875.8	2902.5	2971.4	3088.9	3242.4	3419.4	3467.9	3551.7	3546.2	3336.4
20°	2743.5	2755.2	2771.7	2814.0	2936.1	3098.3	3312.1	3374.7	3488.3	3507.1	3261.9
22.5°	2691.8	2700.4	2698.1	2720.8	2803.8	2966.7	3203.2	3277.6	3431.9	3480.5	3193.0
25°	2694.9	2702.8	2691.0	2685.5	2734.9	2850.8	3089.6	3184.4	3386.5	3462.4	3130.4
27.5°	2747.4	2752.9	2731.0	2709.0	2712.9	2778.7	2995.7	3100.6	3348.1	3470.3	3077.9
30°	2817.9	2828.1	2814.0	2787.3	2758.4	2761.5	2935.4	3038.7	3330.1	3497.7	3052.8
32.5°	2908.7	2918.1	2911.9	2890.7	2853.1	2811.6	2920.5	3016.0	3331.7	3553.3	3047.4
35°	3004.3	3023.1	3033.3	3031.7	3001.2	2929.1	2979.2	3058.3	3369.2	3646.5	3079.5
37.5°	3112.4	3128.0	3171.9	3200.1	3171.9	3088.1	3111.6	3166.4	3452.3	3781.2	3150.0
40°	3217.3	3240.8	3305.0	3392.7	3381.8	3308.2	3313.6	3349.7	3598.7	3981.7	3287.8
42.5°	3327.0	3355.1	3467.1	3597.2	3623.0	3565.8	3580.7	3612.8	3807.0	4259.7	3524.3
45°	3467.9	3501.6	3639.4	3801.6	3903.4	3868.1	3910.4	3926.1	4085.9	4621.6	3836.0
47.5°	3649.6	3688.8	3858.7	4060.8	4204.9	4237.0	4310.6	4301.2	4431.2	5050.0	4240.1
50°	3955.8	3977.8	4138.3	4344.3	4542.5	4687.3	4767.2	4782.1	4859.6	5466.6	4692.0
52.5°	4320.0	4339.6	4455.5	4635.6	4883.9	5190.9	5388.3	5339.7	5358.5	5974.1	5220.7
55°	4729.6	4762.5	4836.1	4956.0	5277.9	5729.8	6126.0	6137.8	5929.5	6459.7	5727.4
57.5°	5046.8	5102.4	5228.5	5399.3	5807.3	6328.9	6861.5	6869.3	6603.0	6978.1	6286.6
60°	4887.1	4952.8	5241.0	5656.9	6502.0	7374.4	7740.2	7695.5	7258.5	7568.7	6968.7
62.5°	4197.9	4209.6	4628.6	5278.6	6715.8	8773.2	9048.1	8859.3	8133.3	8317.4	7661.9
65°	2716.9	2793.6	3125.7	4036.5	6013.3	9549.3	11339.7	10903.4	9359.8	9167.1	8242.2
67.5°	1715.2	1695.6	1833.4	2304.9	4136.0	8865.6	13295.3	13226.4	10963.8	9703.6	8103.6
69°	1422.3	1444.2	1491.2	1766.9	2846.1	7569.4	13526.3	14002.5	11741.5	9661.3	7600.0
70°	1289.9	1300.1	1349.4	1566.4	2196.0	6339.9	13147.3	13981.4	12046.9	9484.3	7235.0
72.5°	1023.6	1022.8	1107.4	1303.2	1641.5	3619.1	10795.4	12138.5	11705.4	8660.4	5978.0
75°	777.7	790.2	883.4	1102.7	1512.3	1977.5	7533.4	9348.1	9348.8	6840.3	3730.3
77.5°	560.8	568.6	677.5	925.7	1424.6	1603.2	5017.8	6704.8	6303.0	3134.3	1172.4
80°	367.3	372.0	455.0	733.1	1284.4	1512.3	2975.3	4103.9	2973.0	831.7	387.7
82.5°	201.3	224.8	278.0	474.6	1030.7	1397.2	1808.4	2077.0	1115.3	370.4	202.1
85°	101.0	107.3	156.6	277.2	673.5	1156.0	1259.4	1191.2	575.6	184.0	104.9
87.5°	29.8	37.6	65.0	107.3	273.3	602.3	700.9	628.9	221.6	66.6	21.9
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°	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7	3880.7
2.5°	3848.6	3834.5	3771.8	3715.4	3663.7	3608.9	3562.7	3522.0	3525.9	3526.7	3485.2
5°	3760.8	3728.7	3609.7	3498.5	3404.5	3285.4	3183.6	3117.8	3085.0	3041.1	3056.8
7.5°	3641.8	3579.9	3414.7	3229.8	3056.8	2902.5	2734.9	2619.7	2546.1	2474.9	2484.3
10°	3518.8	3419.4	3178.9	2934.6	2710.6	2463.9	2250.1	2066.8	1930.5	1879.6	1846.0
12.5°	3392.7	3261.9	2956.5	2631.5	2322.1	2026.9	1723.8	1527.2	1376.8	1296.9	1307.1
15°	3277.6	3118.6	2724.7	2328.4	1926.6	1575.0	1272.7	1085.5	980.5	958.6	971.1
17.5°	3171.1	2962.8	2507.7	2033.9	1564.8	1181.0	956.3	850.5	808.2	796.5	795.7
20°	3061.5	2830.4	2264.2	1719.1	1219.4	915.5	784.7	735.4	727.6	732.3	733.1
22.5°	2950.2	2666.7	2013.6	1406.6	971.1	748.7	686.1	672.8	679.0	690.0	691.5
25°	2847.6	2522.6	1772.3	1132.5	775.3	657.9	627.3	627.3	641.4	657.9	658.7
27.5°	2763.1	2383.2	1531.9	899.1	649.3	592.1	581.9	587.4	607.0	619.5	620.3
30°	2693.4	2253.2	1304.8	720.5	570.9	539.6	537.3	546.7	560.8	572.5	573.3
32.5°	2640.9	2138.9	1092.5	605.4	516.9	499.7	498.9	505.9	513.8	516.9	520.0
35°	2620.5	2044.1	898.3	532.6	480.9	469.9	469.9	469.1	472.3	473.8	475.4
37.5°	2637.0	1971.3	747.9	485.6	454.2	446.4	441.7	437.0	435.4	435.4	436.2
40°	2706.7	1932.9	635.9	455.0	435.4	423.7	415.1	409.6	404.1	405.7	407.3
42.5°	2854.7	1939.9	560.0	434.7	419.0	402.6	390.0	383.8	379.8	384.5	383.8
45°	3090.4	2010.4	511.4	420.6	402.6	381.4	369.7	363.4	363.4	370.4	372.8
47.5°	3420.2	2145.1	485.6	409.6	390.0	365.0	353.2	348.5	350.1	361.8	362.6
50°	3822.7	2379.3	480.9	404.1	383.8	353.2	339.9	335.2	339.1	351.6	353.2
52.5°	4266.8	2680.8	503.6	404.9	378.3	346.2	328.9	321.9	325.8	336.0	339.1
55°	4793.1	3058.3	562.3	408.0	370.4	342.3	321.1	305.4	310.1	317.2	318.0
57.5°	5330.3	3534.5	665.7	408.8	364.2	335.2	307.8	287.4	287.4	292.1	294.5
60°	5986.6	4053.0	802.0	409.6	365.0	325.0	289.8	267.1	263.9	266.3	267.1
62.5°	6638.2	4486.8	824.7	407.3	372.8	314.8	270.2	246.7	241.2	240.4	238.9
65°	6925.7	4406.2	675.9	396.3	381.4	308.6	254.5	227.1	217.7	214.6	214.6
67.5°	6457.3	3727.2	508.3	381.4	375.9	302.3	239.7	210.7	199.7	193.4	193.4
69°	6017.2	3315.2	456.6	371.2	361.8	292.1	230.3	202.1	188.7	181.7	179.3
70°	5677.3	3031.7	434.7	362.6	348.5	280.4	223.2	195.8	180.9	173.1	171.5
72.5°	4530.7	2378.5	380.6	329.7	296.8	235.7	198.1	176.2	162.1	153.5	151.2
75°	2611.1	1289.1	315.6	286.6	238.9	183.3	167.6	153.5	142.5	134.7	132.4
77.5°	803.5	498.1	228.7	226.3	175.4	141.8	133.9	128.4	120.6	112.0	110.4
80°	338.3	253.8	155.1	152.7	116.7	98.7	96.3	95.5	92.4	85.4	83.0
82.5°	185.6	143.3	108.1	94.0	70.5	57.2	59.5	60.3	58.0	50.9	46.2
85°	90.8	78.3	52.5	42.3	32.1	20.4	19.6	23.5	21.9	15.7	17.2
87.5°	18.0	21.9	14.1	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
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)