

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: P452405

Luminaire Tested: **GALN-SA3B-760-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16627 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

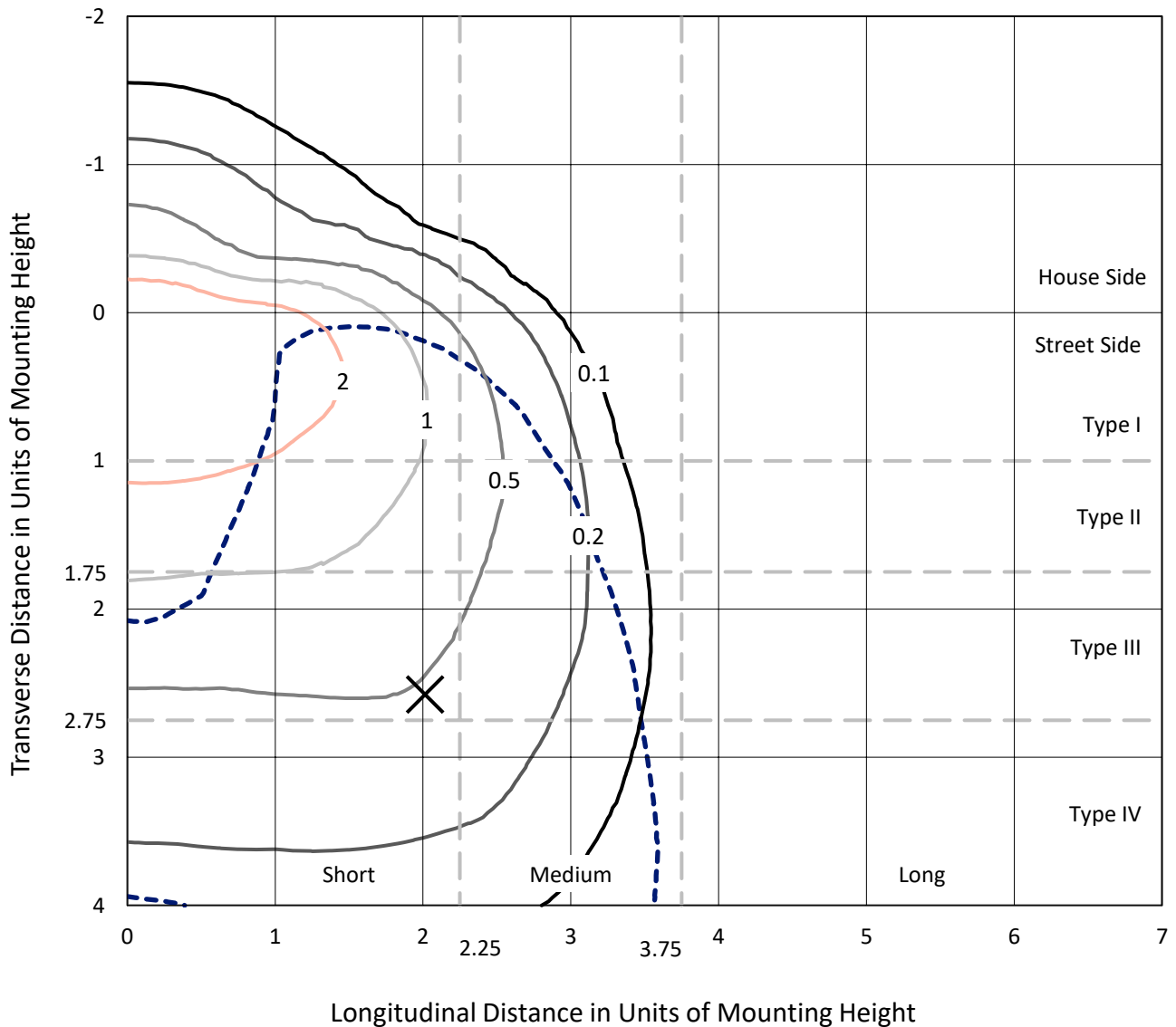
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

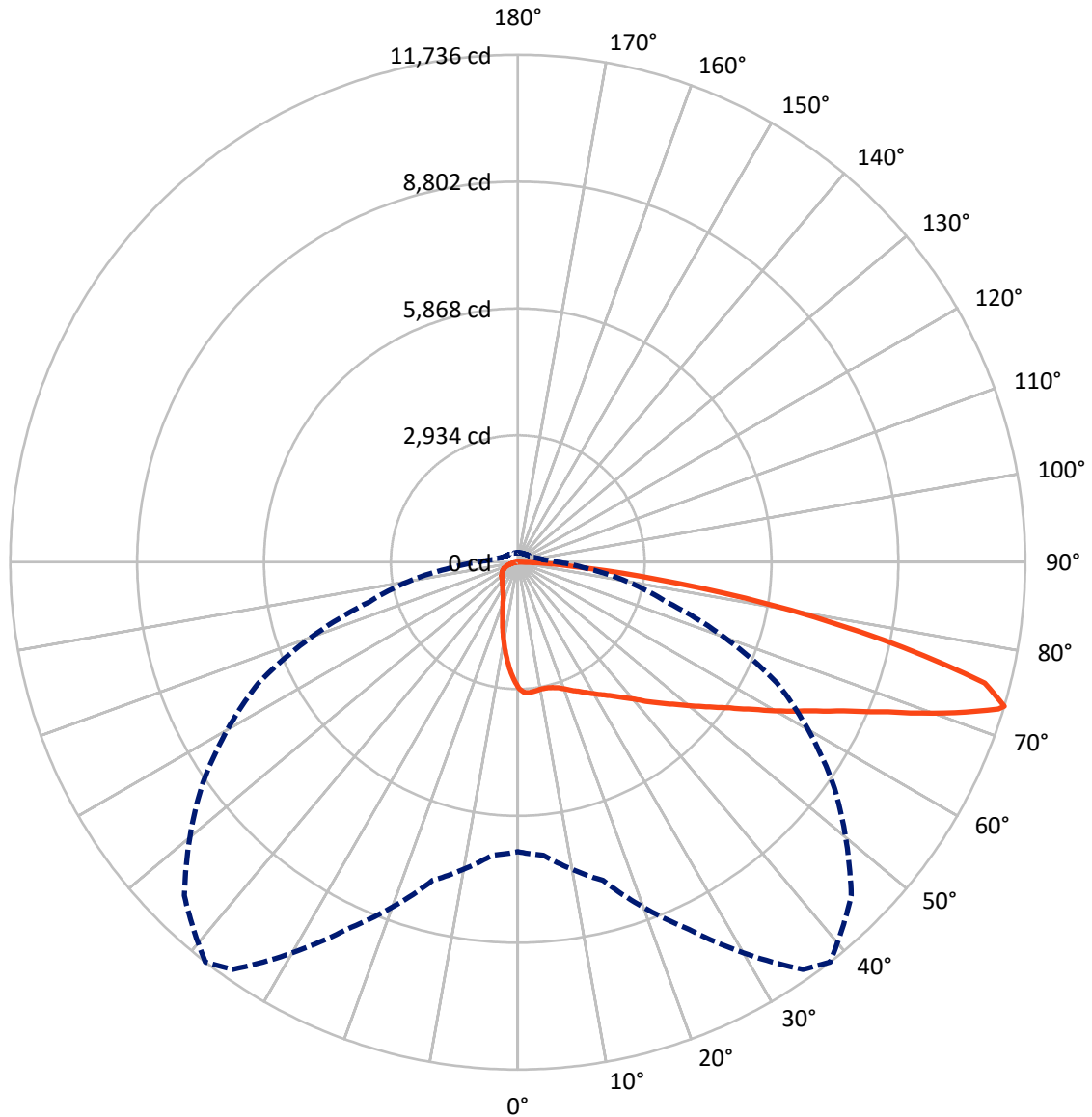
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2235.2	0.0	2235.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14391.8	0.0	14391.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	16627.0	0.0	16627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	1.5
10°-20°	653.8	3.9
20°-30°	1018.2	6.1
30°-40°	1493.4	9.0
40°-50°	2215.3	13.3
50°-60°	3138.7	18.9
60°-70°	3981.5	23.9
70°-80°	3314.3	19.9
80°-90°	556.8	3.3
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°	16627.0	100.0
0°-180°	16627.0	100.0

Coefficient of Utilization



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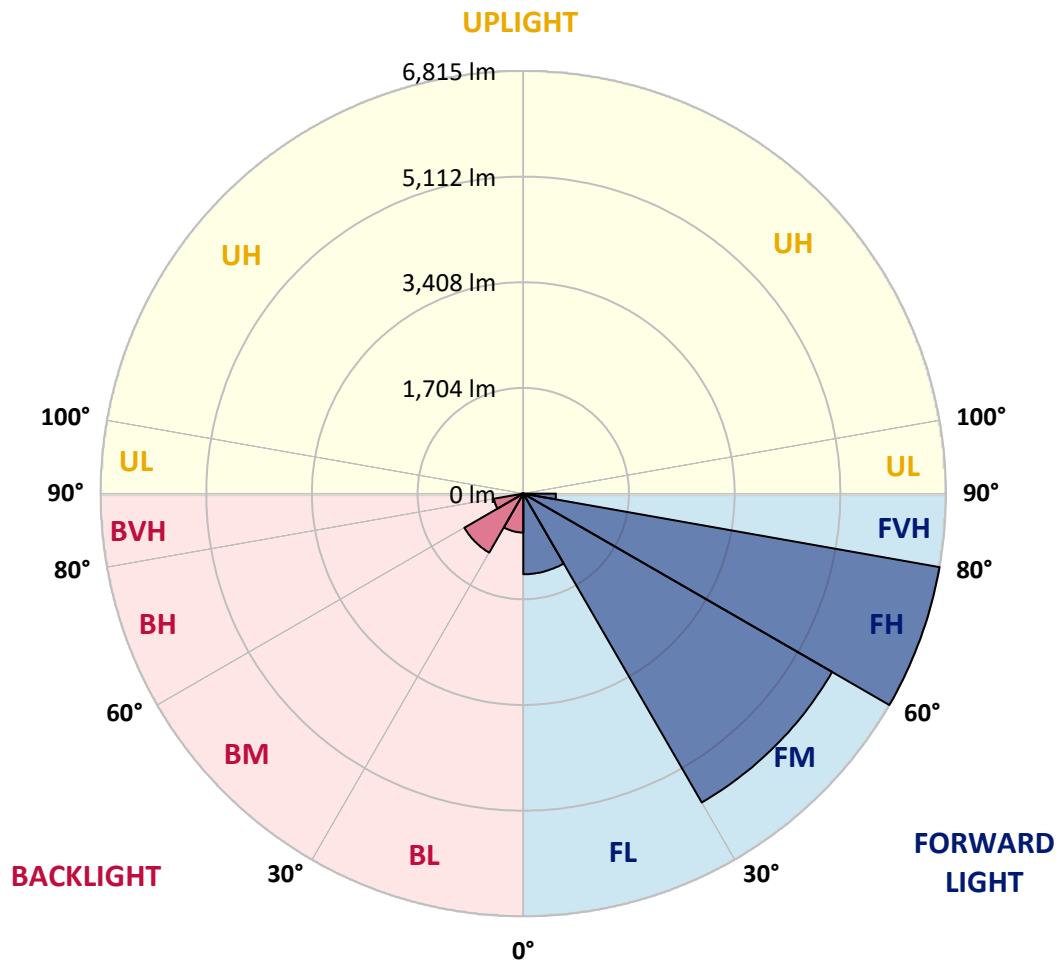
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1299.8	7.8			
FM	(30°-60°)	5750.1	34.6			
FH	(60°-80°)	6815.3	41.0			G3/7500
FVH	(80°-90°)	526.7	3.2			G4/750
BL	(0°-30°)	627.2	3.8	B2/1000		
BM	(30°-60°)	1097.3	6.6	B2/2500		
BH	(60°-80°)	480.4	2.9	B1/500		G1/500
BVH	(80°-90°)	30.2	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1
2.5°	3038.5	3053.5	3046.0	3035.6	3029.1	3022.5	3013.1	2985.9	2964.3	2940.8	2904.2
5°	3061.0	3070.4	3063.8	3050.7	3035.6	3029.1	3011.2	2975.5	2940.8	2901.4	2846.9
7.5°	3047.8	3051.6	3044.1	3028.1	3015.0	3002.8	2982.1	2942.7	2900.4	2852.5	2781.2
10°	3000.9	3015.0	3015.0	3001.8	2988.7	2982.1	2961.5	2923.9	2885.4	2830.9	2746.4
12.5°	2962.4	2977.4	2989.6	2985.9	2984.9	2984.9	2969.0	2940.8	2895.7	2844.1	2743.6
15°	2936.1	2953.9	2980.2	2995.3	3004.6	3007.5	3000.9	2976.5	2930.5	2870.4	2754.9
17.5°	2930.5	2952.1	3000.0	3032.8	3057.2	3056.3	3054.4	3020.6	2969.9	2907.9	2769.0
20°	2955.8	2984.0	3050.7	3102.3	3138.0	3131.4	3121.1	3076.9	3017.8	2948.3	2782.1
22.5°	3031.9	3061.0	3134.2	3190.6	3225.3	3225.3	3194.3	3136.1	3073.2	2995.3	2800.0
25°	3140.8	3172.7	3250.7	3307.9	3323.9	3311.7	3280.7	3210.3	3138.0	3062.9	2837.5
27.5°	3274.1	3312.6	3384.9	3432.8	3428.1	3418.7	3386.8	3296.7	3224.4	3155.8	2901.4
30°	3440.3	3468.5	3543.6	3554.9	3538.0	3536.1	3491.0	3400.9	3333.3	3280.7	2992.4
32.5°	3597.1	3622.5	3682.6	3687.3	3657.2	3661.0	3618.7	3536.1	3497.6	3478.8	3145.5
35°	3763.3	3776.5	3828.1	3822.5	3802.8	3799.9	3783.0	3704.2	3716.4	3750.2	3362.4
37.5°	3902.3	3928.6	3957.7	3962.4	3961.4	3970.8	3982.1	3944.5	4015.0	4121.1	3646.9
40°	4030.0	4052.5	4095.7	4110.7	4147.4	4166.1	4204.6	4205.6	4368.0	4542.7	3997.1
42.5°	4116.4	4154.9	4235.6	4262.8	4352.0	4408.4	4465.7	4526.7	4762.4	4986.8	4410.3
45°	4191.5	4242.2	4376.5	4461.0	4582.1	4650.6	4771.8	4899.5	5238.4	5532.3	4830.0
47.5°	4305.1	4350.2	4504.2	4653.4	4836.5	4915.4	5096.6	5287.2	5730.4	6052.5	5231.8
50°	4462.8	4490.1	4646.9	4890.1	5123.9	5225.3	5464.7	5739.8	6256.2	6566.1	5584.9
52.5°	4664.7	4676.0	4800.9	5124.8	5432.8	5558.6	5876.0	6197.1	6716.3	7012.1	5864.7
55°	4903.2	4884.4	4982.1	5373.6	5785.8	5950.1	6291.0	6660.0	7233.7	7372.7	6068.5
57.5°	5138.9	5109.8	5187.7	5676.0	6221.5	6419.6	6816.8	7137.0	7695.7	7709.7	6211.2
60°	5388.7	5367.1	5460.0	6030.9	6755.8	6990.5	7357.6	7631.8	8142.6	7944.5	6233.7
62.5°	5645.0	5610.2	5742.6	6429.9	7357.6	7570.8	7926.6	8157.6	8581.1	8031.8	6016.8
65°	5893.8	5877.8	6082.5	6904.1	8043.1	8285.3	8630.9	8787.7	8932.3	7900.3	5478.8
67.5°	6158.6	6190.5	6517.3	7537.0	8937.0	9241.2	9613.9	9466.5	9032.7	7277.8	4614.0
70°	6562.3	6583.0	7088.2	8366.1	10089.0	10456.2	10636.5	9707.8	8548.2	6095.7	3468.5
72.5°	6736.0	6827.1	7598.0	9236.5	11397.9	11622.4	10980.1	9169.8	7121.0	4140.8	1822.5
73°	6697.6	6806.5	7621.5	9368.9	11500.3	11736.0	10906.9	8892.8	6619.6	3566.1	1562.4
75°	6217.7	6352.0	7316.3	9258.1	11301.2	11160.4	9729.4	7579.2	4473.2	1621.6	711.7
77.5°	4906.0	4944.5	5797.1	7475.9	8899.4	8638.4	7281.6	4737.0	1827.2	602.8	403.7
80°	2461.0	2602.8	3267.6	4282.6	5951.1	5865.6	4596.2	2240.3	761.5	354.0	267.6
82.5°	1184.0	1284.5	1591.5	2088.2	3288.2	3210.3	2276.0	1224.4	483.6	206.6	157.7
85°	762.4	837.5	1013.1	996.2	1352.1	1291.1	1022.5	926.7	286.4	108.0	109.9
87.5°	503.3	551.2	661.0	528.6	492.0	445.1	451.6	522.1	56.3	41.3	15.0
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°	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1	2921.1
2.5°	2889.2	2877.0	2836.6	2797.1	2759.6	2723.9	2700.4	2669.4	2648.8	2654.4	2662.9
5°	2816.9	2789.6	2718.3	2648.8	2583.1	2505.1	2442.2	2391.5	2353.0	2338.9	2336.1
7.5°	2740.8	2694.8	2592.4	2473.2	2361.5	2264.8	2153.0	2097.6	2032.8	2010.3	2002.8
10°	2694.8	2632.8	2489.2	2323.0	2154.9	1994.3	1873.2	1774.6	1685.4	1668.5	1660.1
12.5°	2681.6	2600.0	2406.5	2192.5	1969.0	1771.8	1592.5	1462.9	1376.5	1356.8	1327.7
15°	2674.1	2572.7	2329.5	2061.0	1777.4	1537.1	1348.3	1197.2	1118.3	1065.7	1066.7
17.5°	2667.6	2541.7	2243.2	1917.3	1612.2	1335.2	1126.7	990.6	918.3	890.1	887.3
20°	2658.2	2505.1	2143.6	1766.2	1423.5	1151.2	962.4	861.0	812.2	788.7	787.8
22.5°	2654.4	2469.4	2046.0	1612.2	1256.3	1009.4	853.5	782.1	751.2	735.2	735.2
25°	2663.8	2444.1	1943.6	1465.7	1108.0	888.2	778.4	729.6	711.7	703.3	700.5
27.5°	2692.9	2432.8	1842.2	1319.2	971.8	805.6	727.7	693.9	680.7	674.2	675.1
30°	2748.3	2431.9	1742.7	1174.6	870.4	742.7	687.3	663.8	653.5	649.8	648.8
32.5°	2837.5	2452.5	1645.0	1055.4	785.0	690.1	649.8	632.9	628.2	625.3	624.4
35°	2988.7	2510.8	1548.3	946.5	719.2	643.2	614.1	605.6	599.1	601.9	602.8
37.5°	3192.4	2611.2	1456.3	861.0	669.5	608.4	584.0	576.5	572.8	575.6	578.4
40°	3465.7	2755.8	1379.3	792.5	633.8	579.3	557.7	551.2	547.4	552.1	553.0
42.5°	3767.1	2923.0	1315.5	739.0	604.7	554.9	534.3	526.8	523.9	526.8	527.7
45°	4076.9	3117.3	1282.6	700.5	580.3	537.1	515.5	507.0	500.5	498.6	501.4
47.5°	4382.1	3286.3	1281.7	677.0	560.6	521.1	497.6	488.3	479.8	475.1	474.2
50°	4630.9	3420.6	1304.2	666.7	543.7	503.3	479.8	470.4	459.1	449.8	451.6
52.5°	4818.7	3507.9	1314.5	662.0	534.3	484.5	461.0	452.6	439.4	427.2	427.2
55°	4939.8	3528.6	1289.2	657.3	526.8	464.8	439.4	431.9	418.8	406.6	406.6
57.5°	4981.1	3464.7	1198.1	646.0	519.2	447.9	417.8	411.3	400.9	388.7	386.8
60°	4885.4	3248.8	1038.5	612.2	504.2	430.0	394.4	391.5	387.8	377.5	376.5
62.5°	4516.4	2790.6	864.8	568.1	478.9	411.3	372.8	377.5	380.3	374.6	373.7
65°	3902.3	2265.7	739.0	507.0	445.1	385.0	349.3	361.5	369.0	369.0	367.1
67.5°	3165.2	1739.9	622.5	454.5	402.8	349.3	323.0	332.4	338.0	336.1	340.8
70°	2249.7	1178.4	507.0	394.4	349.3	308.9	289.2	289.2	285.4	283.6	283.6
72.5°	1091.1	673.2	411.3	329.6	297.6	263.8	247.9	241.3	233.8	232.9	228.2
73°	911.7	603.7	392.5	317.4	285.4	257.3	239.4	229.1	224.4	220.7	219.7
75°	554.9	458.2	327.7	267.6	243.2	221.6	205.6	196.2	191.5	188.7	187.8
77.5°	365.3	341.8	254.5	204.7	185.9	172.8	166.2	156.8	154.0	150.2	150.2
80°	272.3	261.0	182.2	144.6	133.3	122.1	120.2	118.3	110.8	106.1	104.2
82.5°	175.6	185.9	123.9	96.7	84.5	75.1	76.1	78.9	71.4	64.8	62.9
85°	124.9	134.3	75.1	44.1	35.7	31.0	34.7	31.0	31.9	25.4	20.7
87.5°	20.7	35.7	13.1	5.6	2.8	1.9	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)