

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: P451939

Luminaire Tested: **GALN-SA2D-760-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451939
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-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 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: 15419 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

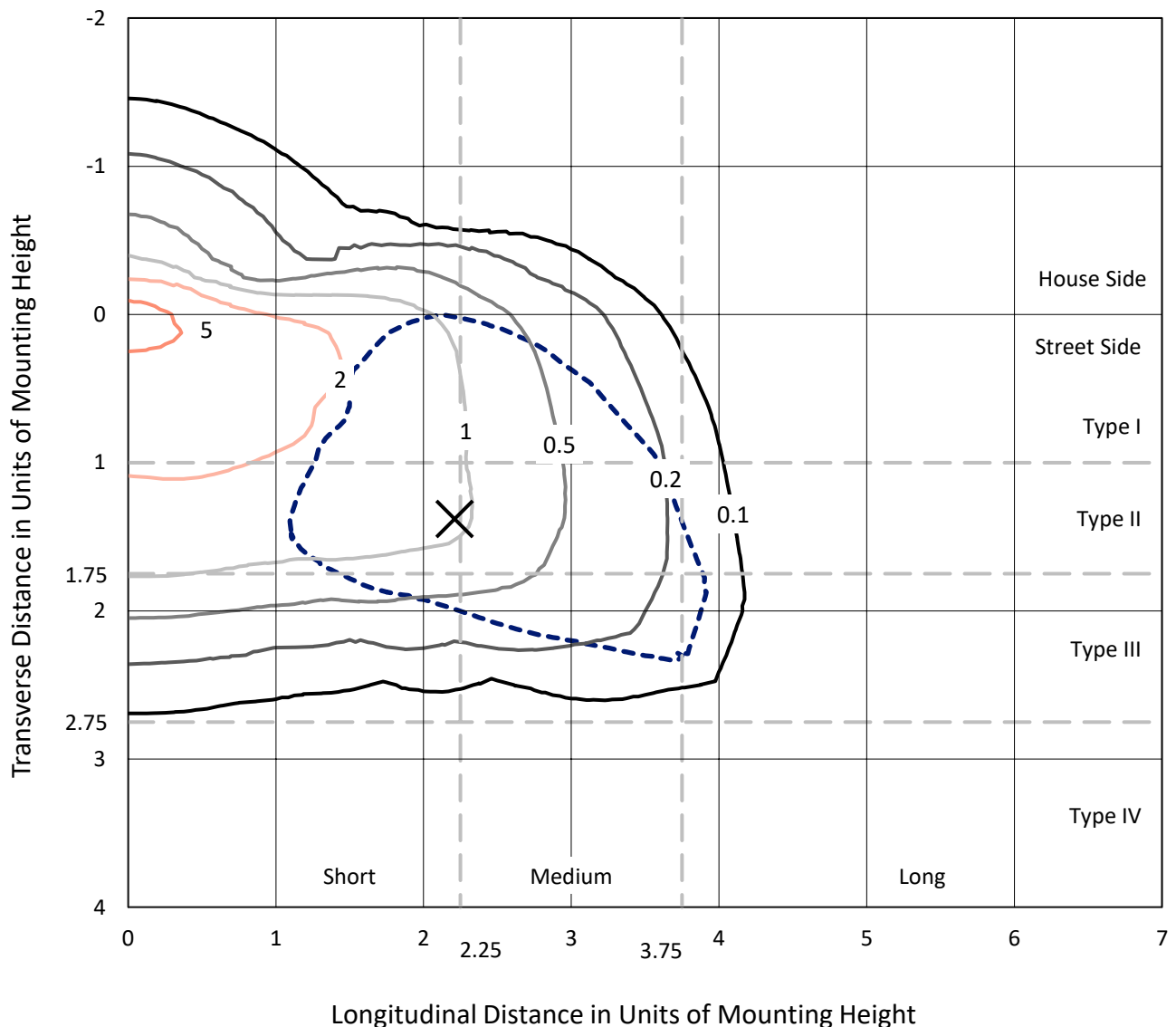
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451939
 CATALOG NUMBER: GALN-SA2D-760-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

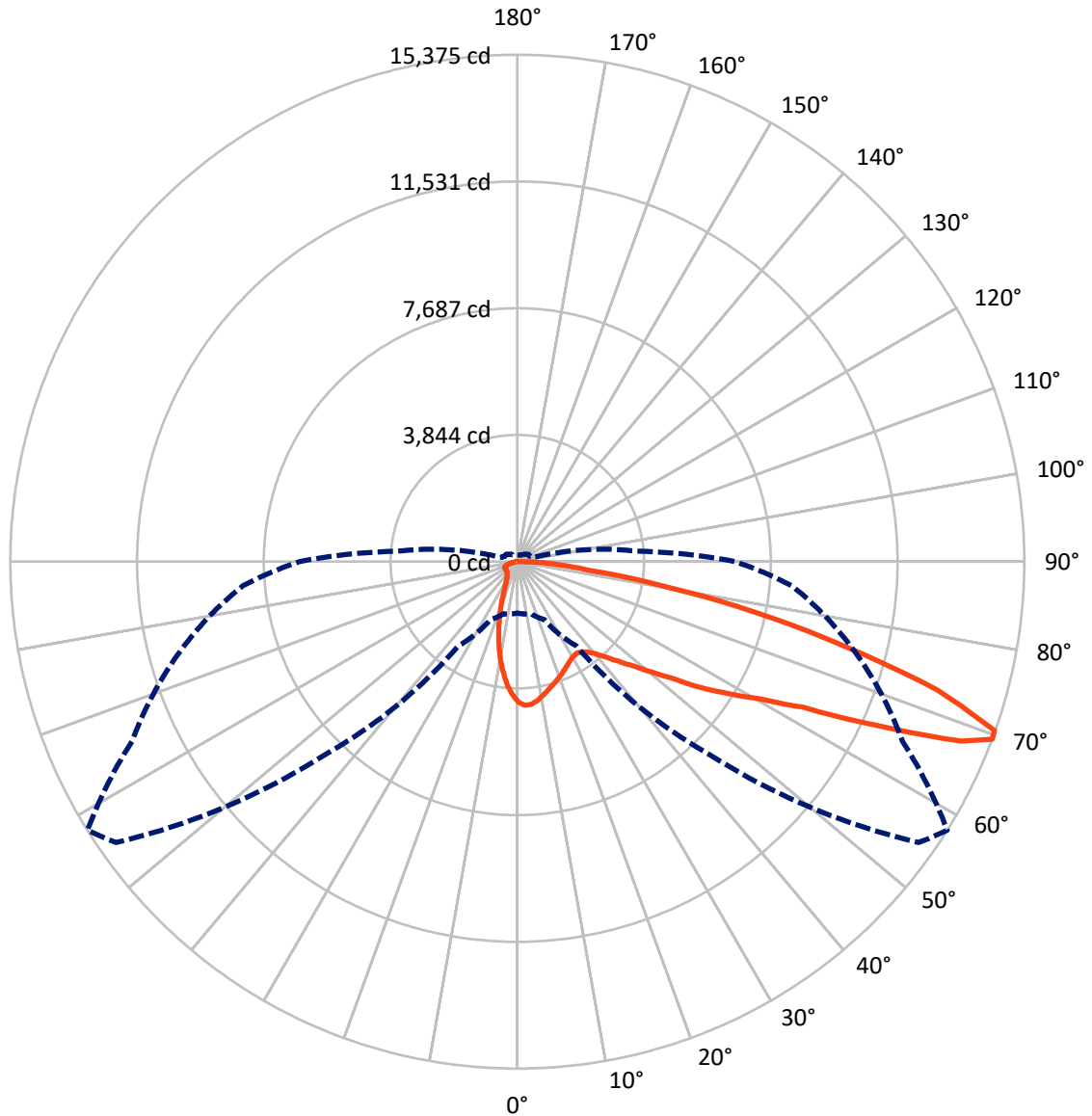
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P451939
CATALOG NUMBER: GALN-SA2D-760-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451939

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2259.7	0.0	2259.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13159.3	0.0	13159.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	15419.0	0.0	15419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.9	2.3
10°-20°	794.6	5.2
20°-30°	1026.6	6.7
30°-40°	1333.4	8.6
40°-50°	1938.5	12.6
50°-60°	3093.2	20.1
60°-70°	4132.1	26.8
70°-80°	2382.0	15.4
80°-90°	356.8	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°	15419.0	100.0
0°-180°	15419.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451939

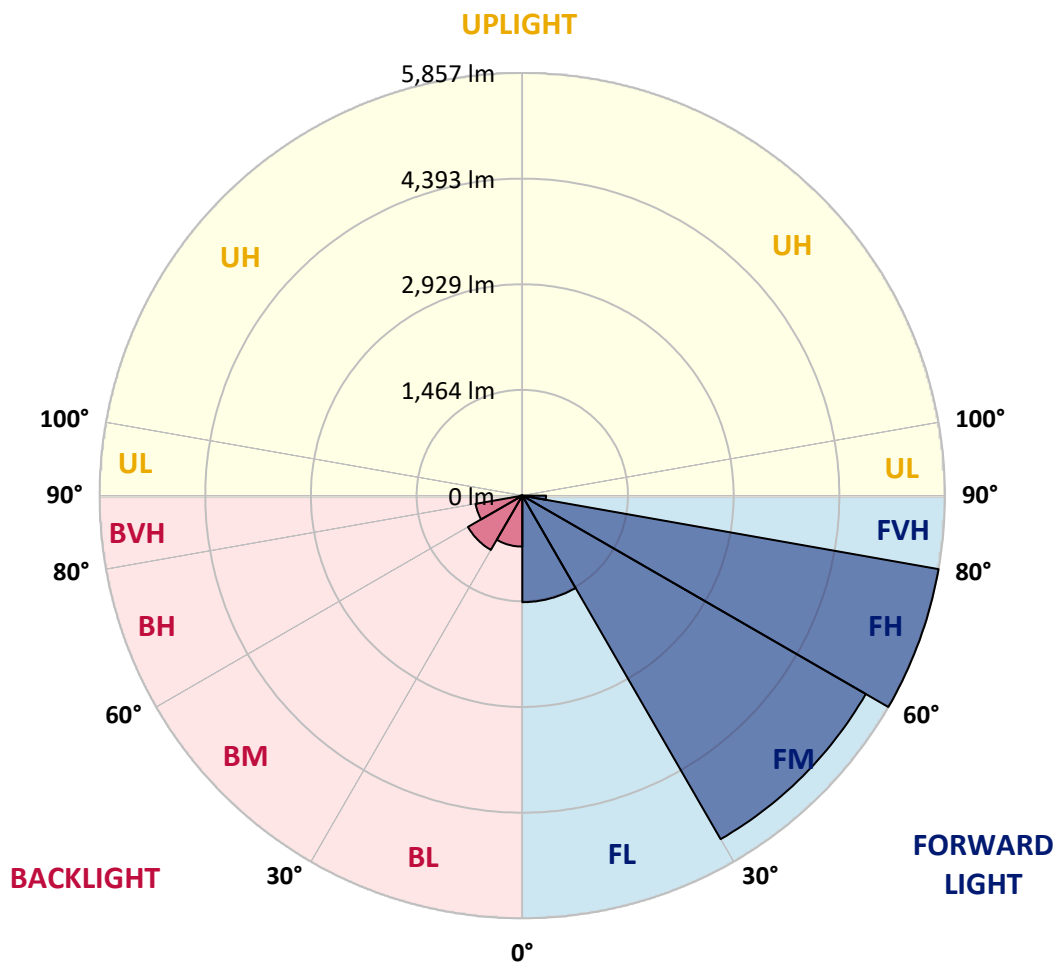
CATALOG NUMBER: GALN-SA2D-760-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1476.7	9.6			
FM	(30°-60°)	5496.1	35.6			
FH	(60°-80°)	5857.1	38.0			G3/7500
FVH	(80°-90°)	329.4	2.1			G3/500
BL	(0°-30°)	706.3	4.6	B2/1000		
BM	(30°-60°)	869.0	5.6	B1/1000		
BH	(60°-80°)	657.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	27.3	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





REPORT NUMBER: P451939
 CATALOG NUMBER: GALN-SA2D-760-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9
2.5°	4419.1	4431.2	4427.7	4423.4	4416.6	4397.6	4366.7	4361.5	4341.7	4299.6	4247.2
5°	4351.2	4361.5	4362.4	4368.4	4377.0	4373.6	4351.2	4348.6	4319.4	4262.6	4174.9
7.5°	4118.2	4131.9	4162.0	4195.6	4225.7	4254.0	4260.9	4265.2	4247.2	4181.8	4064.8
10°	3855.9	3869.6	3883.4	3933.3	4007.2	4077.7	4136.2	4144.0	4148.3	4088.1	3945.3
12.5°	3565.2	3593.6	3622.8	3696.8	3795.7	3906.6	4009.8	4026.2	4055.4	4009.8	3842.1
15°	3318.4	3347.7	3389.8	3456.0	3575.6	3735.5	3880.8	3907.5	3965.1	3941.9	3745.8
17.5°	3147.3	3157.6	3186.9	3262.5	3391.5	3560.1	3754.4	3807.7	3899.7	3893.7	3663.3
20°	3012.3	3025.2	3043.3	3089.7	3223.8	3401.8	3636.6	3705.4	3830.1	3850.7	3581.6
22.5°	2955.5	2965.0	2962.4	2987.4	3078.5	3257.4	3517.1	3598.8	3768.2	3821.5	3505.9
25°	2959.0	2967.6	2954.7	2948.7	3002.8	3130.1	3392.4	3496.4	3718.3	3801.7	3437.1
27.5°	3016.6	3022.6	2998.5	2974.5	2978.8	3051.0	3289.2	3404.4	3676.2	3810.3	3379.5
30°	3094.0	3105.2	3089.7	3060.5	3028.6	3032.1	3223.0	3336.5	3656.4	3840.4	3352.0
32.5°	3193.7	3204.1	3197.2	3174.0	3132.7	3087.1	3206.6	3311.6	3658.1	3901.5	3346.0
35°	3298.7	3319.3	3330.5	3328.8	3295.2	3216.1	3271.1	3358.0	3699.4	4003.8	3381.2
37.5°	3417.3	3434.5	3482.7	3513.6	3482.7	3390.7	3416.5	3476.7	3790.5	4151.7	3458.6
40°	3532.6	3558.4	3628.9	3725.2	3713.1	3632.3	3638.3	3677.9	3951.3	4371.8	3609.9
42.5°	3652.9	3683.9	3806.9	3949.6	3978.0	3915.2	3931.6	3966.8	4180.1	4677.1	3869.6
45°	3807.7	3844.7	3996.1	4174.1	4285.8	4247.2	4293.6	4310.8	4486.2	5074.4	4211.9
47.5°	4007.2	4050.2	4236.8	4458.7	4616.9	4652.2	4733.0	4722.7	4865.4	5544.8	4655.6
50°	4343.5	4367.5	4543.8	4770.0	4987.5	5146.6	5234.3	5250.7	5335.8	6002.2	5151.8
52.5°	4743.3	4764.8	4892.1	5089.9	5362.5	5699.6	5916.3	5862.9	5883.6	6559.5	5732.2
55°	5193.1	5229.2	5310.0	5441.6	5795.0	6291.2	6726.3	6739.2	6510.5	7092.6	6288.6
57.5°	5541.3	5602.4	5740.8	5928.3	6376.3	6949.0	7533.8	7542.4	7250.0	7661.9	6902.6
60°	5365.9	5438.1	5754.6	6211.2	7139.1	8097.0	8498.6	8449.6	7969.7	8310.3	7651.6
62.5°	4609.2	4622.1	5082.1	5795.9	7373.8	9632.8	9934.7	9727.4	8930.3	9132.4	8412.6
65°	2983.1	3067.3	3431.9	4432.0	6602.5	10485.0	12450.8	11971.8	10276.9	10065.4	9049.8
67.5°	1883.2	1861.7	2013.1	2530.7	4541.2	9734.3	14598.0	14522.3	12038.0	10654.4	8897.6
69°	1561.6	1585.7	1637.3	1940.0	3125.0	8311.1	14851.7	15374.5	12891.9	10608.0	8344.7
70°	1416.3	1427.5	1481.6	1719.8	2411.2	6961.1	14435.5	15351.3	13227.3	10413.6	7944.0
72.5°	1123.9	1123.1	1215.9	1430.9	1802.4	3973.7	11853.2	13327.9	12852.4	9509.0	6563.8
75°	853.9	867.7	970.0	1210.8	1660.5	2171.3	8271.6	10264.0	10264.9	7510.6	4095.8
77.5°	615.7	624.3	743.8	1016.4	1564.2	1760.3	5509.5	7361.8	6920.6	3441.4	1287.3
80°	403.3	408.5	499.6	804.9	1410.3	1660.5	3266.8	4506.0	3264.3	913.2	425.7
82.5°	221.0	246.8	305.3	521.1	1131.7	1534.1	1985.6	2280.5	1224.5	406.7	221.9
85°	110.9	117.8	172.0	304.4	739.5	1269.2	1382.8	1307.9	632.0	202.1	115.2
87.5°	32.7	41.3	71.4	117.8	300.1	661.3	769.6	690.5	243.4	73.1	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451939

CATALOG NUMBER: GALN-SA2D-760-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9	4260.9
2.5°	4225.7	4210.2	4141.4	4079.5	4022.7	3962.5	3911.8	3867.1	3871.4	3872.2	3826.6
5°	4129.3	4094.1	3963.4	3841.3	3738.1	3607.4	3495.6	3423.3	3387.2	3339.1	3356.3
7.5°	3998.6	3930.7	3749.3	3546.3	3356.3	3186.9	3002.8	2876.4	2795.6	2717.4	2727.7
10°	3863.6	3754.4	3490.4	3222.1	2976.2	2705.3	2470.6	2269.3	2119.7	2063.8	2026.8
12.5°	3725.2	3581.6	3246.2	2889.3	2549.7	2225.5	1892.7	1676.8	1511.7	1424.0	1435.2
15°	3598.8	3424.2	2991.7	2556.5	2115.4	1729.3	1397.4	1191.9	1076.6	1052.5	1066.3
17.5°	3481.8	3253.1	2753.5	2233.2	1718.1	1296.8	1050.0	933.9	887.4	874.5	873.7
20°	3361.4	3107.8	2486.0	1887.5	1338.9	1005.2	861.6	807.5	798.9	804.0	804.9
22.5°	3239.3	2928.0	2210.9	1544.4	1066.3	822.1	753.3	738.7	745.6	757.6	759.3
25°	3126.7	2769.8	1946.0	1243.4	851.3	722.3	688.8	688.8	704.3	722.3	723.2
27.5°	3033.8	2616.7	1682.0	987.2	712.9	650.1	638.9	644.9	666.4	680.2	681.1
30°	2957.3	2474.0	1432.6	791.1	626.9	592.5	589.9	600.2	615.7	628.6	629.5
32.5°	2899.7	2348.4	1199.6	664.7	567.5	548.6	547.8	555.5	564.1	567.5	571.0
35°	2877.3	2244.4	986.3	584.7	528.0	516.0	516.0	515.1	518.5	520.3	522.0
37.5°	2895.4	2164.4	821.2	533.2	498.8	490.2	485.0	479.8	478.1	478.1	479.0
40°	2971.9	2122.3	698.3	499.6	478.1	465.2	455.8	449.7	443.7	445.4	447.2
42.5°	3134.4	2130.0	614.8	477.3	460.1	442.0	428.2	421.4	417.1	422.2	421.4
45°	3393.2	2207.4	561.5	461.8	442.0	418.8	405.9	399.0	399.0	406.7	409.3
47.5°	3755.3	2355.3	533.2	449.7	428.2	400.7	387.8	382.7	384.4	397.3	398.1
50°	4197.3	2612.4	528.0	443.7	421.4	387.8	373.2	368.0	372.3	386.1	387.8
52.5°	4684.8	2943.5	552.9	444.6	415.3	380.1	361.2	353.4	357.7	368.9	372.3
55°	5262.7	3358.0	617.4	448.0	406.7	375.8	352.6	335.4	340.5	348.3	349.1
57.5°	5852.6	3880.8	730.9	448.9	399.9	368.0	337.9	315.6	315.6	320.8	323.3
60°	6573.2	4450.1	880.6	449.7	400.7	356.9	318.2	293.2	289.8	292.4	293.2
62.5°	7288.7	4926.5	905.5	447.2	409.3	345.7	296.7	270.9	264.9	264.0	262.3
65°	7604.3	4837.9	742.1	435.1	418.8	338.8	279.5	249.4	239.1	235.6	235.6
67.5°	7090.0	4092.4	558.1	418.8	412.8	331.9	263.1	231.3	219.3	212.4	212.4
69°	6606.8	3640.0	501.3	407.6	397.3	320.8	252.8	221.9	207.2	199.5	196.9
70°	6233.6	3328.8	477.3	398.1	382.7	307.9	245.1	215.0	198.6	190.0	188.3
72.5°	4974.6	2611.6	417.9	362.0	325.9	258.8	217.6	193.5	178.0	168.5	166.0
75°	2867.0	1415.4	346.5	314.7	262.3	201.2	184.0	168.5	156.5	147.9	145.3
77.5°	882.3	546.9	251.1	248.5	192.6	155.6	147.0	141.0	132.4	123.0	121.2
80°	371.5	278.6	170.3	167.7	128.1	108.4	105.8	104.9	101.5	93.7	91.2
82.5°	203.8	157.4	118.7	103.2	77.4	62.8	65.4	66.2	63.6	55.9	50.7
85°	99.8	86.0	57.6	46.4	35.3	22.4	21.5	25.8	24.1	17.2	18.9
87.5°	19.8	24.1	15.5	6.9	3.4	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)