

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: P453913

Luminaire Tested: **GALN-SA5A-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453913
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-SA5A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA 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: 18748 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

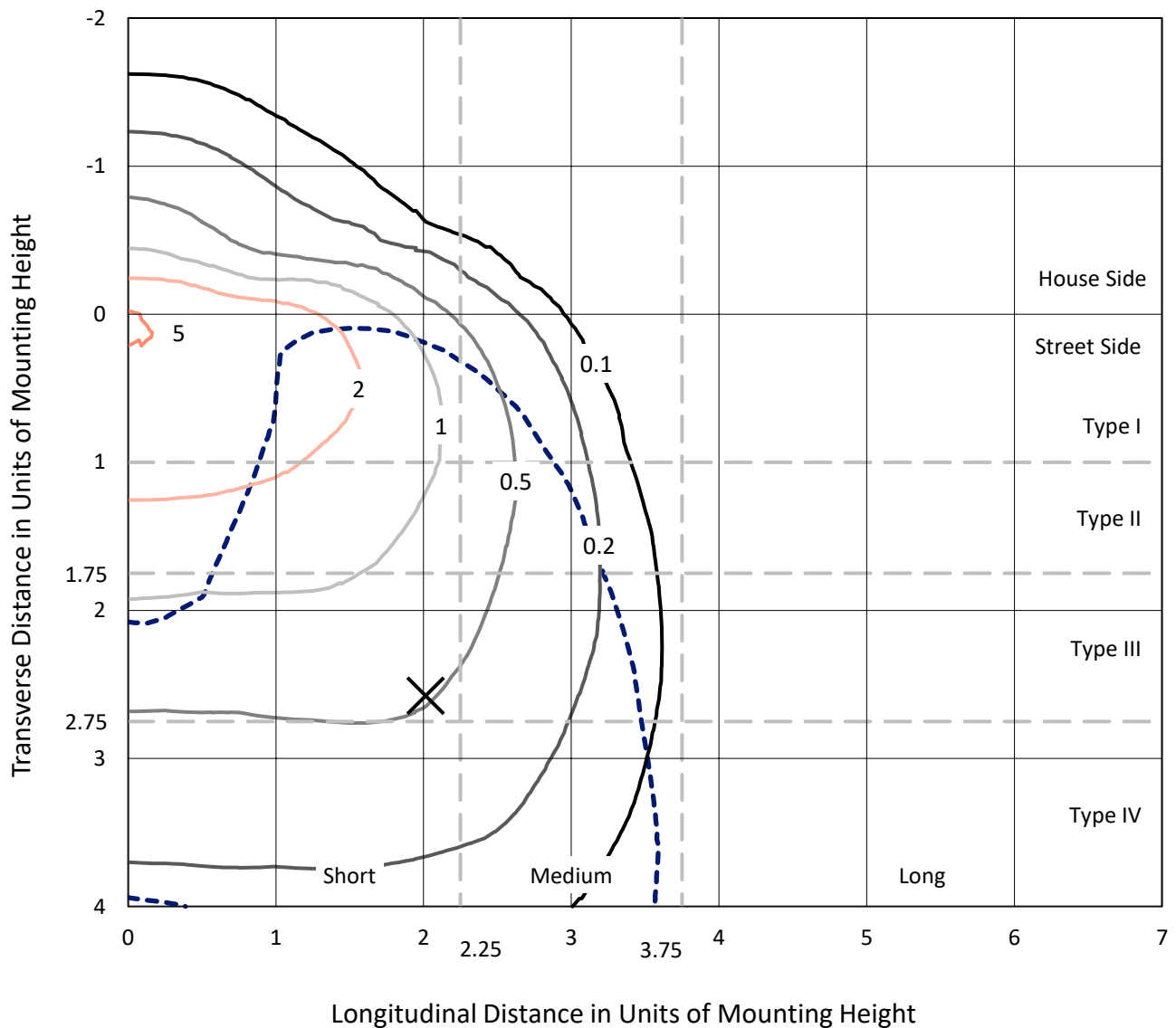
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

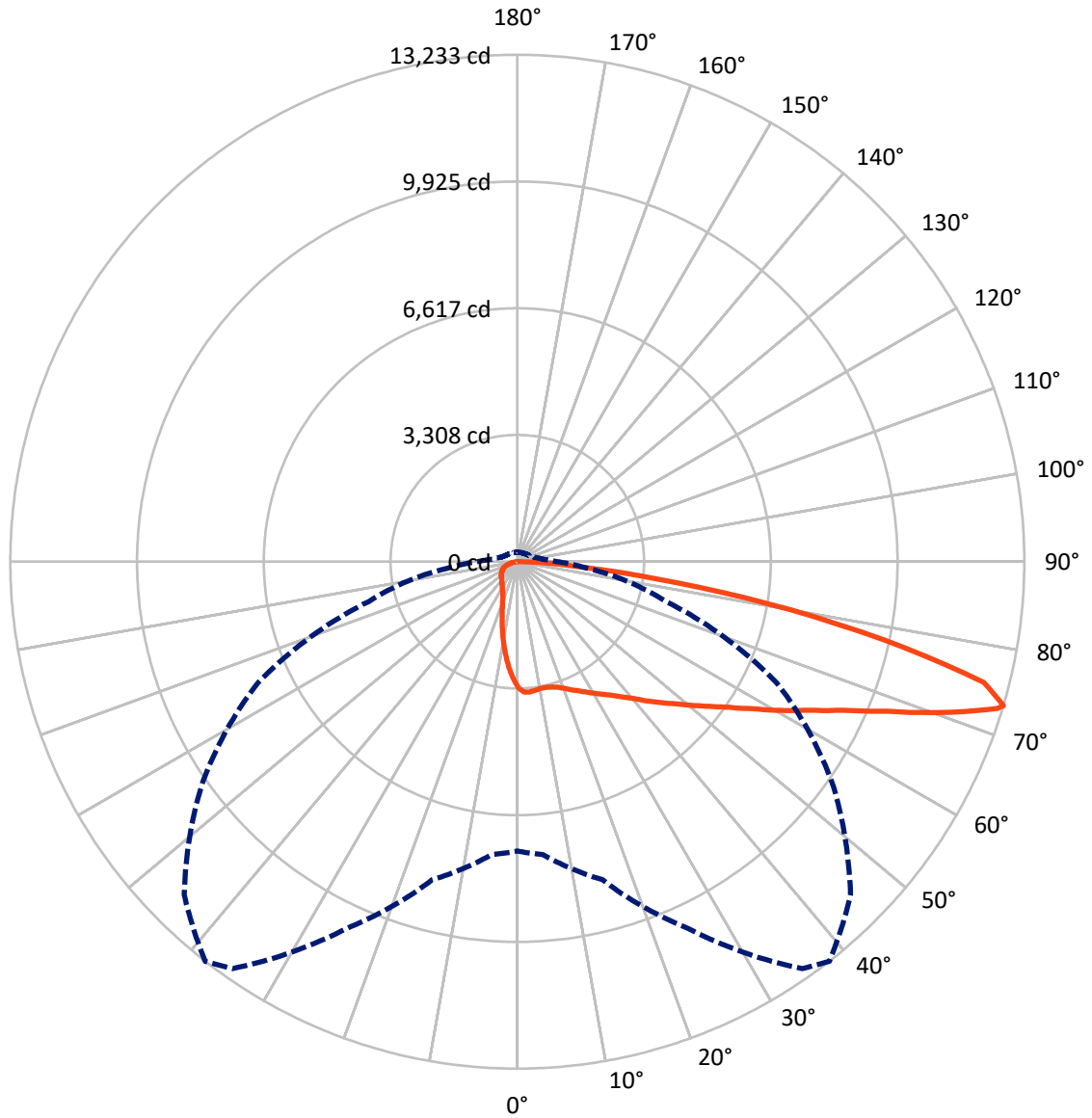
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2520.3	0.0	2520.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16227.7	0.0	16227.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	18748.0	0.0	18748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	1.5
10°-20°	737.3	3.9
20°-30°	1148.0	6.1
30°-40°	1683.9	9.0
40°-50°	2497.9	13.3
50°-60°	3539.0	18.9
60°-70°	4489.4	23.9
70°-80°	3737.1	19.9
80°-90°	627.9	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°	18748.0	100.0
0°-180°	18748.0	100.0

Coefficient of Utilization



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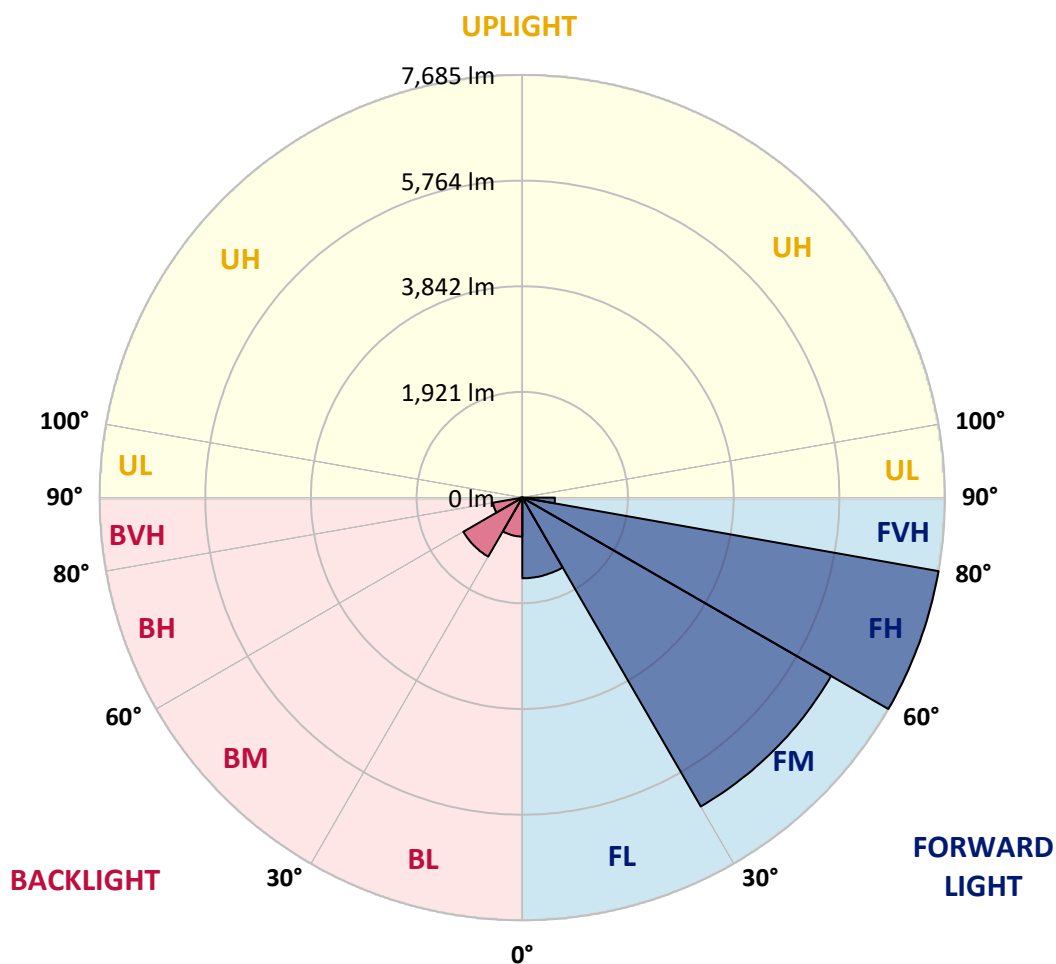
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1465.6	7.8			
FM (30°-60°)	6483.6	34.6			
FH (60°-80°)	7684.7	41.0			G4/12000
FVH (80°-90°)	593.8	3.2			G4/750
BL (0°-30°)	707.2	3.8	B2/1000		
BM (30°-60°)	1237.3	6.6	B2/2500		
BH (60°-80°)	541.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	34.0	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°	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7
2.5°	3426.0	3443.0	3434.5	3422.9	3415.5	3408.0	3397.5	3366.8	3342.4	3315.9	3274.6
5°	3451.5	3462.0	3454.6	3439.8	3422.9	3415.5	3395.3	3355.1	3315.9	3271.5	3210.1
7.5°	3436.6	3440.9	3432.4	3414.4	3399.6	3385.8	3362.5	3318.1	3270.4	3216.4	3136.0
10°	3383.7	3399.6	3399.6	3384.8	3369.9	3362.5	3339.2	3296.9	3253.5	3192.1	3096.8
12.5°	3340.3	3357.2	3371.0	3366.8	3365.7	3365.7	3347.7	3315.9	3265.1	3206.9	3093.6
15°	3310.6	3330.8	3360.4	3377.3	3387.9	3391.1	3383.7	3356.2	3304.3	3236.5	3106.3
17.5°	3304.3	3328.6	3382.6	3419.7	3447.2	3446.2	3444.0	3405.9	3348.8	3278.9	3122.2
20°	3332.9	3364.6	3439.8	3498.0	3538.3	3530.9	3519.2	3469.5	3402.8	3324.4	3137.0
22.5°	3418.6	3451.5	3534.0	3597.6	3636.7	3636.7	3601.8	3536.2	3465.2	3377.3	3157.1
25°	3541.4	3577.4	3665.3	3729.9	3747.9	3734.1	3699.2	3619.8	3538.3	3453.6	3199.5
27.5°	3691.8	3735.2	3816.7	3870.7	3865.4	3854.8	3818.8	3717.2	3635.7	3558.4	3271.5
30°	3879.2	3910.9	3995.6	4008.3	3989.3	3987.2	3936.4	3834.7	3758.5	3699.2	3374.2
32.5°	4056.0	4084.6	4152.3	4157.6	4123.7	4128.0	4080.3	3987.2	3943.8	3922.6	3546.7
35°	4243.4	4258.2	4316.4	4310.1	4287.9	4284.7	4265.6	4176.7	4190.4	4228.6	3791.3
37.5°	4400.1	4429.7	4462.5	4467.8	4466.8	4477.4	4490.1	4447.7	4527.1	4646.8	4112.1
40°	4544.1	4569.5	4618.2	4635.1	4676.4	4697.6	4741.0	4742.0	4925.2	5122.1	4507.0
42.5°	4641.5	4684.9	4775.9	4806.6	4907.2	4970.7	5035.3	5104.1	5369.9	5622.9	4972.9
45°	4726.2	4783.3	4934.7	5030.0	5166.6	5243.9	5380.5	5524.4	5906.6	6238.0	5446.1
47.5°	4854.3	4905.1	5078.7	5247.1	5453.5	5542.4	5746.8	5961.7	6461.4	6824.6	5899.2
50°	5032.1	5062.8	5239.6	5513.9	5777.5	5891.8	6161.8	6472.0	7054.3	7403.7	6297.3
52.5°	5259.8	5272.5	5413.3	5778.5	6125.8	6267.7	6625.5	6987.6	7573.1	7906.6	6612.8
55°	5528.7	5507.5	5617.6	6059.1	6523.9	6709.2	7093.5	7509.6	8156.4	8313.1	6842.6
57.5°	5794.4	5761.6	5849.5	6400.0	7015.1	7238.5	7686.4	8047.4	8677.3	8693.2	7003.5
60°	6076.0	6051.7	6156.5	6800.2	7617.6	7882.2	8296.2	8605.3	9181.3	8957.9	7028.9
62.5°	6365.1	6325.9	6475.2	7250.2	8296.2	8536.5	8937.8	9198.2	9675.7	9056.4	6784.3
65°	6645.6	6627.6	6858.4	7784.8	9069.1	9342.2	9731.8	9908.6	10071.7	8908.1	6177.7
67.5°	6944.2	6980.2	7348.6	8498.4	10077.0	10420.0	10840.3	10674.1	10185.0	8206.2	5202.6
70°	7399.5	7422.7	7992.3	9433.3	11376.0	11790.0	11993.3	10946.2	9638.7	6873.3	3910.9
72.5°	7595.3	7698.0	8567.2	10414.7	12851.9	13104.9	12380.8	10339.5	8029.4	4669.0	2055.0
73°	7551.9	7674.7	8593.7	10564.0	12967.3	13233.1	12298.2	10027.2	7464.0	4021.1	1761.7
75°	7010.9	7162.3	8249.6	10439.1	12742.9	12584.1	10970.5	8546.1	5043.8	1828.4	802.5
77.5°	5531.9	5575.3	6536.6	8429.6	10034.6	9740.3	8210.4	5341.3	2060.3	679.7	455.3
80°	2774.9	2934.8	3684.4	4828.9	6710.2	6613.9	5182.5	2526.1	858.6	399.1	301.7
82.5°	1335.1	1448.3	1794.5	2354.6	3707.7	3619.8	2566.4	1380.6	545.2	232.9	177.9
85°	859.7	944.4	1142.4	1123.3	1524.6	1455.8	1153.0	1045.0	322.9	121.8	123.9
87.5°	567.5	621.5	745.3	596.1	554.8	501.8	509.2	588.7	63.5	46.6	16.9
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°	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7	3293.7
2.5°	3257.7	3243.9	3198.4	3154.0	3111.6	3071.4	3044.9	3010.0	2986.7	2993.0	3002.6
5°	3176.2	3145.5	3065.0	2986.7	2912.6	2824.7	2753.8	2696.6	2653.2	2637.3	2634.1
7.5°	3090.4	3038.6	2923.2	2788.7	2662.7	2553.7	2427.7	2365.2	2292.1	2266.7	2258.3
10°	3038.6	2968.7	2806.7	2619.3	2429.8	2248.7	2112.2	2001.0	1900.4	1881.4	1871.8
12.5°	3023.7	2931.6	2713.5	2472.1	2220.2	1997.8	1795.6	1649.5	1552.1	1529.9	1497.0
15°	3015.3	2900.9	2626.7	2323.9	2004.2	1733.1	1520.3	1349.9	1260.9	1201.7	1202.7
17.5°	3007.8	2866.0	2529.3	2161.9	1817.8	1505.5	1270.5	1117.0	1035.4	1003.7	1000.5
20°	2997.3	2824.7	2417.1	1991.5	1605.0	1298.0	1085.2	970.9	915.8	889.3	888.3
22.5°	2993.0	2784.5	2307.0	1817.8	1416.6	1138.1	962.4	881.9	847.0	829.0	829.0
25°	3003.6	2755.9	2191.6	1652.7	1249.3	1001.6	877.7	822.6	802.5	793.0	789.8
27.5°	3036.4	2743.2	2077.2	1487.5	1095.8	908.4	820.5	782.4	767.6	760.2	761.2
30°	3098.9	2742.1	1965.0	1324.5	981.4	837.5	775.0	748.5	736.9	732.6	731.6
32.5°	3199.5	2765.4	1854.9	1190.0	885.1	778.2	732.6	713.6	708.3	705.1	704.1
35°	3369.9	2831.0	1745.8	1067.2	811.0	725.2	692.4	682.9	675.5	678.6	679.7
37.5°	3599.7	2944.3	1642.1	970.9	754.9	686.1	658.5	650.1	645.8	649.0	652.2
40°	3907.8	3107.4	1555.3	893.6	714.6	653.2	628.9	621.5	617.2	622.5	623.6
42.5°	4247.6	3295.8	1483.3	833.2	681.8	625.7	602.4	593.9	590.8	593.9	595.0
45°	4597.0	3515.0	1446.2	789.8	654.3	605.6	581.2	571.7	564.3	562.2	565.4
47.5°	4941.1	3705.6	1445.2	763.3	632.1	587.6	561.1	550.5	541.0	535.7	534.7
50°	5221.7	3856.9	1470.6	751.7	613.0	567.5	541.0	530.4	517.7	507.1	509.2
52.5°	5433.4	3955.4	1482.2	746.4	602.4	546.3	519.8	510.3	495.5	481.7	481.7
55°	5570.0	3978.7	1453.6	741.1	593.9	524.1	495.5	487.0	472.2	458.4	458.4
57.5°	5616.6	3906.7	1350.9	728.4	585.5	505.0	471.1	463.7	452.1	438.3	436.2
60°	5508.6	3663.2	1171.0	690.3	568.5	484.9	444.7	441.5	437.3	425.6	424.6
62.5°	5092.5	3146.5	975.1	640.5	540.0	463.7	420.3	425.6	428.8	422.4	421.4
65°	4400.1	2554.7	833.2	571.7	501.8	434.1	393.8	407.6	416.1	416.1	414.0
67.5°	3569.0	1961.8	701.9	512.4	454.2	393.8	364.2	374.8	381.1	379.0	384.3
70°	2536.7	1328.7	571.7	444.7	393.8	348.3	326.1	326.1	321.9	319.7	319.7
72.5°	1230.2	759.1	463.7	371.6	335.6	297.5	279.5	272.1	263.6	262.6	257.3
73°	1028.0	680.8	442.5	357.9	321.9	290.1	270.0	258.3	253.0	248.8	247.7
75°	625.7	516.7	369.5	301.7	274.2	249.9	231.9	221.3	216.0	212.8	211.7
77.5°	411.8	385.4	286.9	230.8	209.6	194.8	187.4	176.8	173.6	169.4	169.4
80°	307.0	294.3	205.4	163.0	150.3	137.6	135.5	133.4	124.9	119.6	117.5
82.5°	198.0	209.6	139.8	109.0	95.3	84.7	85.8	88.9	80.5	73.1	70.9
85°	140.8	151.4	84.7	49.8	40.2	34.9	39.2	34.9	36.0	28.6	23.3
87.5°	23.3	40.2	14.8	6.4	3.2	2.1	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)