

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: P454054

Luminaire Tested: **GALN-SA5A-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16805 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

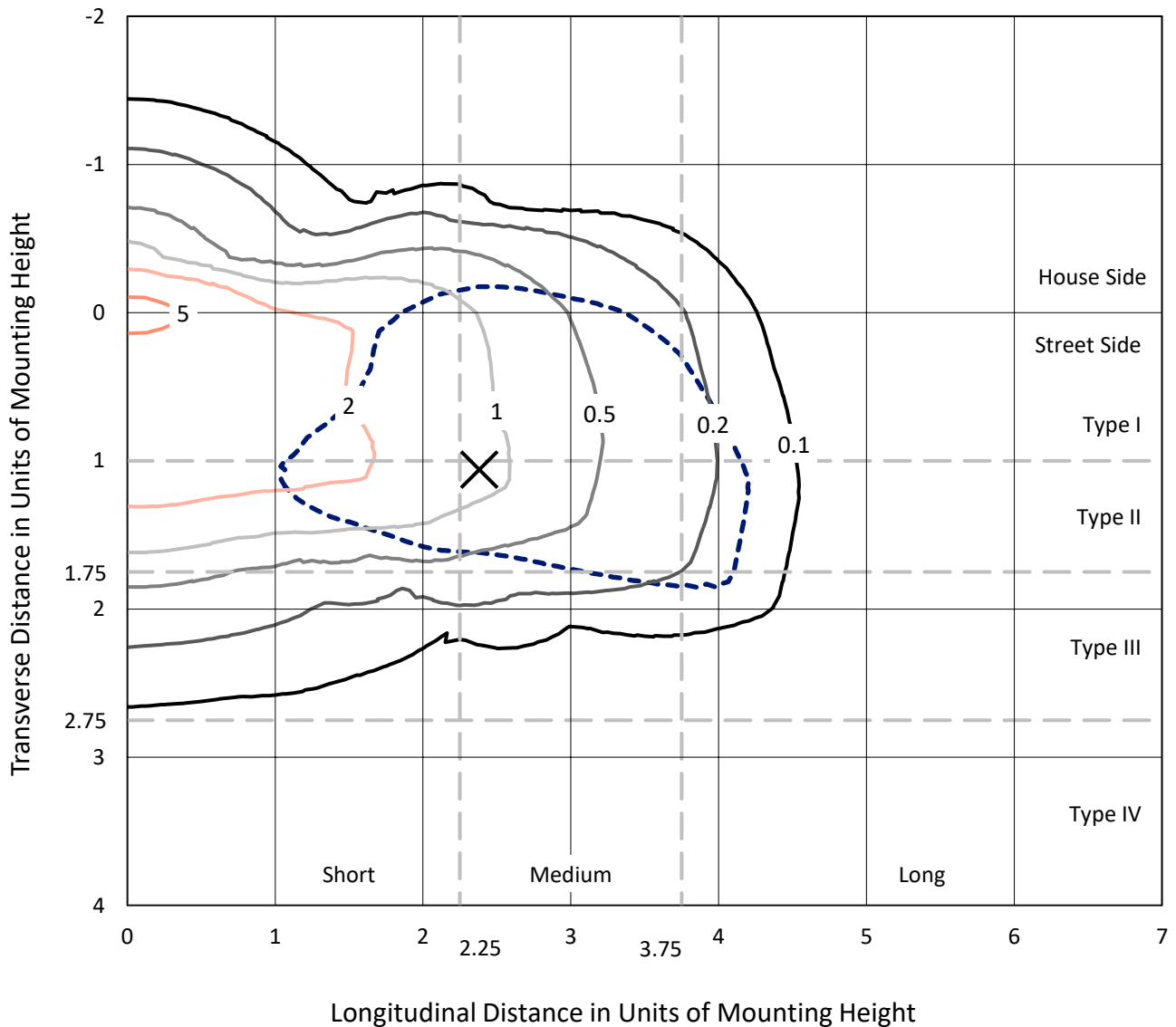
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

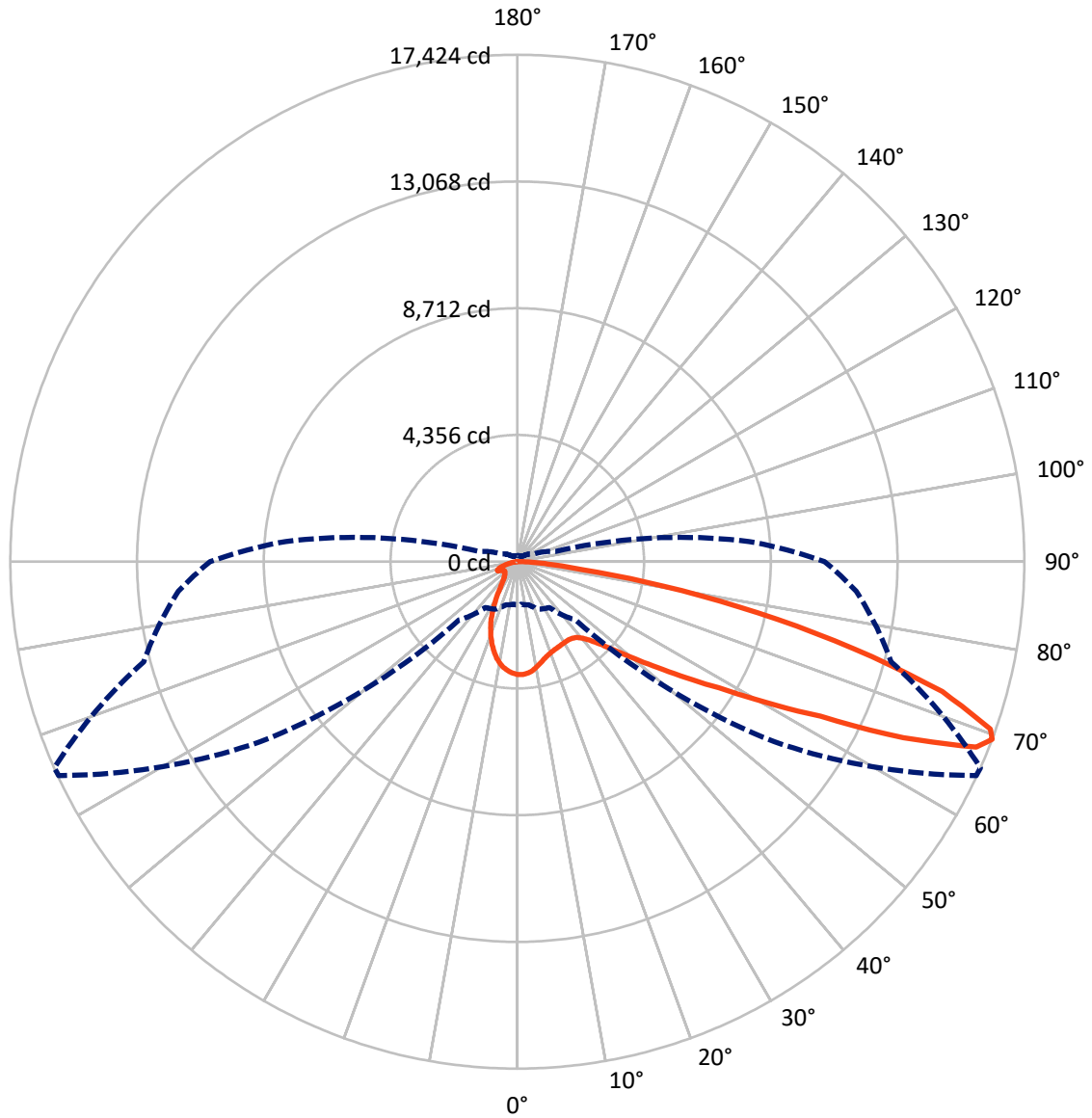
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3160.4	0.0	3160.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13644.6	0.0	13644.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	16805.0	0.0	16805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	2.0
10°-20°	799.3	4.8
20°-30°	1088.2	6.5
30°-40°	1462.3	8.7
40°-50°	2183.4	13.0
50°-60°	3473.1	20.7
60°-70°	4271.8	25.4
70°-80°	2779.4	16.5
80°-90°	410.4	2.4
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°	16805.0	100.0
0°-180°	16805.0	100.0

Coefficient of Utilization



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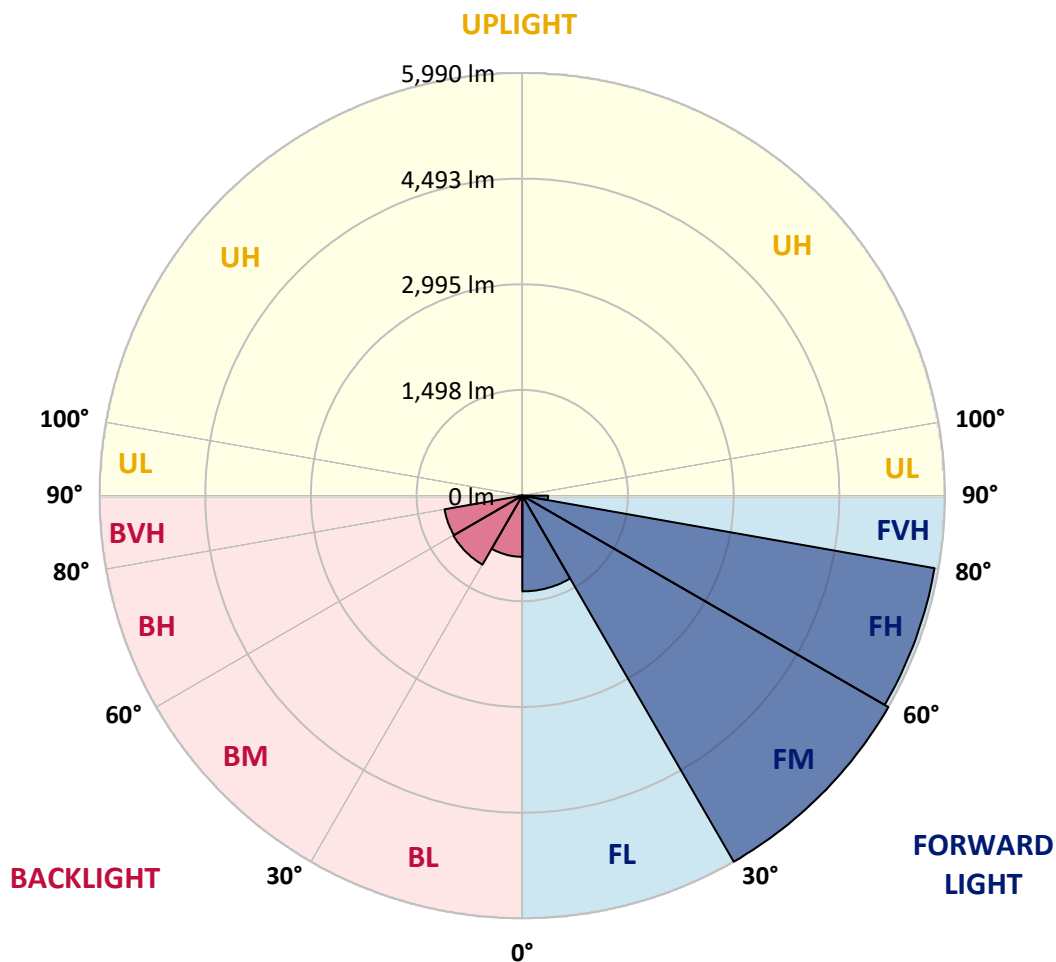
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1357.0	8.1			
FM	(30°-60°)	5990.5	35.6			
FH	(60°-80°)	5932.3	35.3			G3/7500
FVH	(80°-90°)	364.9	2.2			G3/500
BL	(0°-30°)	867.5	5.2	B2/1000		
BM	(30°-60°)	1128.4	6.7	B2/2500		
BH	(60°-80°)	1118.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	45.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	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°	3744.9	3759.8	3776.5	3795.1	3830.5	3850.0	3864.0	3879.8	3881.7	3890.0	3883.5
5°	3468.5	3486.2	3511.3	3546.6	3599.7	3682.5	3768.1	3837.9	3846.3	3885.4	3896.6
7.5°	3237.7	3247.9	3268.4	3325.2	3400.5	3492.7	3617.4	3758.8	3779.3	3872.4	3904.9
10°	3049.7	3059.9	3084.1	3142.7	3217.2	3332.6	3469.4	3655.5	3672.3	3832.3	3906.8
12.5°	2909.2	2918.5	2944.5	3002.2	3087.8	3195.8	3346.6	3543.9	3568.0	3779.3	3889.1
15°	2802.1	2819.8	2841.2	2888.7	2979.0	3083.2	3229.3	3441.5	3461.0	3723.5	3877.0
17.5°	2756.5	2764.9	2779.8	2823.5	2889.6	2992.0	3139.0	3361.4	3384.7	3684.4	3874.2
20°	2758.4	2766.8	2769.6	2793.8	2841.2	2929.6	3074.8	3298.2	3326.1	3649.9	3878.9
22.5°	2821.7	2822.6	2812.4	2804.0	2822.6	2896.1	3029.2	3250.7	3283.3	3635.1	3882.6
25°	2919.4	2936.1	2921.3	2882.2	2847.7	2883.1	3011.5	3224.6	3255.4	3613.6	3877.9
27.5°	3077.6	3080.4	3068.3	3015.3	2925.9	2899.9	3004.1	3205.1	3231.2	3597.8	3854.7
30°	3289.8	3281.4	3270.2	3211.6	3071.1	2964.1	3019.9	3187.4	3214.4	3574.6	3826.8
32.5°	3504.8	3530.8	3520.6	3451.7	3269.3	3088.8	3071.1	3185.6	3207.9	3556.9	3796.1
35°	3732.8	3744.9	3793.3	3757.9	3570.8	3290.7	3166.9	3214.4	3232.1	3557.8	3774.6
37.5°	3911.5	3944.0	4057.6	4088.3	3912.4	3557.8	3322.4	3296.3	3303.7	3603.4	3783.0
40°	4127.4	4183.2	4329.3	4454.9	4339.5	3904.9	3586.7	3448.0	3457.3	3713.2	3837.9
42.5°	4401.0	4440.1	4636.4	4806.7	4788.1	4363.7	3906.8	3696.5	3701.1	3931.9	3991.5
45°	4721.1	4776.9	4997.5	5253.4	5297.2	4883.0	4369.3	4072.5	4069.7	4271.6	4278.1
47.5°	5130.6	5165.0	5383.7	5662.9	5839.7	5535.4	4930.5	4612.2	4582.4	4766.7	4713.7
50°	5507.5	5561.5	5727.1	6032.4	6472.6	6299.5	5668.5	5312.1	5242.3	5414.4	5325.1
52.5°	5665.7	5722.5	5862.1	6240.8	7015.1	7287.8	6605.6	6146.8	6030.5	6162.7	6130.1
55°	5391.2	5464.7	5595.0	6055.6	7253.4	8427.8	7869.4	7111.9	7027.2	6970.4	6979.8
57.5°	4653.2	4723.0	4898.9	5407.0	6968.6	9255.1	9673.9	8352.4	8171.0	7909.5	7954.1
60°	3542.0	3585.7	3676.9	4240.0	6124.5	9470.1	11723.2	9920.6	9805.2	8844.7	8876.4
62.5°	2515.5	2564.8	2628.1	2909.2	4483.8	8864.3	13327.6	12110.3	11698.1	9813.5	9782.8
65°	2042.7	2009.2	2085.5	2216.8	2630.9	6869.9	13688.7	15149.8	14582.1	11089.4	10663.2
67.5°	1679.8	1644.4	1719.8	1953.4	2000.9	3987.8	12387.7	17122.7	17009.2	12477.0	11557.5
69°	1487.2	1468.5	1534.6	1800.8	1920.8	2831.9	10791.6	17397.3	17424.2	13295.0	11695.3
70°	1340.1	1347.6	1411.8	1723.5	1884.5	2335.0	9223.5	17018.5	17247.4	13703.6	11546.4
72.5°	986.5	1002.3	1091.6	1427.6	1850.1	1981.3	5488.9	14865.0	15269.8	13727.8	10562.7
75°	689.6	682.2	761.3	1074.9	1747.7	1963.6	3223.7	11496.1	11954.9	11865.6	8875.5
77.5°	451.4	463.5	526.7	759.4	1470.4	1948.7	2101.4	8156.1	8453.9	7935.5	5249.7
80°	318.3	317.3	352.7	518.4	1090.7	1872.4	1720.7	5140.8	5065.4	3118.6	1556.9
82.5°	182.4	195.4	236.4	364.8	729.6	1648.2	1583.0	2458.7	2244.7	888.8	525.8
85°	101.4	106.1	140.5	220.6	426.2	1241.5	1382.0	1118.6	1055.3	371.3	226.1
87.5°	32.6	35.4	58.6	111.7	193.6	586.3	782.7	516.5	476.5	134.0	91.2
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°	3886.3	3897.5	3867.7	3838.9	3812.8	3776.5	3743.9	3716.9	3698.3	3695.5	3686.2
5°	3899.4	3900.3	3843.5	3767.2	3692.8	3610.9	3526.2	3465.7	3408.9	3377.3	3361.4
7.5°	3908.7	3900.3	3797.9	3674.1	3530.8	3381.9	3233.0	3113.9	3021.8	2985.5	2999.4
10°	3904.9	3878.9	3729.0	3530.8	3322.4	3099.9	2885.9	2718.4	2564.8	2485.7	2487.6
12.5°	3884.5	3841.7	3626.7	3369.8	3063.6	2765.8	2438.3	2212.1	2034.4	1929.2	1896.6
15°	3866.8	3792.3	3506.6	3151.1	2770.5	2345.2	1946.0	1666.8	1517.9	1435.0	1434.1
17.5°	3848.2	3744.9	3375.4	2919.4	2433.6	1886.4	1467.6	1254.5	1184.7	1193.1	1179.1
20°	3828.6	3689.0	3238.6	2661.6	2023.2	1407.1	1099.1	1012.5	1032.1	1070.2	1075.8
22.5°	3806.3	3629.5	3091.6	2377.8	1591.4	1059.1	891.5	878.5	928.8	988.3	996.7
25°	3771.9	3555.0	2906.4	2080.9	1227.5	853.4	780.8	790.1	839.4	889.7	895.3
27.5°	3723.5	3462.9	2719.3	1710.5	922.3	732.4	713.8	725.9	750.1	780.8	788.2
30°	3658.3	3358.7	2504.3	1390.4	738.9	671.9	664.5	671.0	684.9	698.0	701.7
32.5°	3593.2	3258.1	2287.5	1064.6	658.9	631.9	624.5	624.5	624.5	626.3	627.2
35°	3532.7	3163.2	2054.8	829.2	617.0	600.3	590.0	578.9	577.0	570.5	570.5
37.5°	3499.2	3076.7	1807.3	694.3	586.3	574.2	560.2	541.6	531.4	532.3	530.5
40°	3505.7	3019.9	1582.1	617.9	561.2	548.1	526.7	505.3	498.8	498.8	497.0
42.5°	3579.2	3001.3	1366.2	577.9	537.0	522.1	495.1	475.6	471.8	470.9	472.8
45°	3748.6	3046.9	1172.6	551.9	516.5	494.2	467.2	449.5	445.8	445.8	444.8
47.5°	4079.0	3194.9	1033.9	535.1	501.6	472.8	444.8	427.2	420.6	418.8	418.8
50°	4592.7	3515.9	930.6	520.2	483.0	453.2	424.4	403.9	393.7	392.7	391.8
52.5°	5306.5	4016.6	890.6	509.1	462.5	432.7	401.1	381.6	368.5	365.7	363.9
55°	6141.3	4715.5	945.5	500.7	441.1	409.5	376.9	356.4	344.3	338.8	337.8
57.5°	7108.2	5555.0	1154.0	489.5	421.6	384.4	352.7	332.2	319.2	312.7	310.8
60°	7976.5	6417.6	1517.9	483.0	404.8	357.4	324.8	306.2	294.1	287.6	286.6
62.5°	8930.4	7240.3	1952.5	500.7	397.4	331.3	298.7	282.0	271.7	265.2	265.2
65°	9949.4	8063.9	2240.0	560.2	408.5	310.8	270.8	256.9	247.5	242.9	242.0
67.5°	10636.2	8348.7	1845.4	621.7	436.5	288.5	243.8	232.7	227.1	222.4	222.4
69°	10561.8	7988.6	1361.5	637.5	444.8	277.3	228.9	220.6	213.1	211.3	209.4
70°	10326.3	7578.1	1141.0	627.2	438.3	267.1	219.6	209.4	202.9	201.0	200.1
72.5°	9197.5	6572.1	849.7	545.4	373.2	231.7	194.5	185.2	179.6	176.8	176.8
75°	7641.4	5371.6	663.5	433.7	292.2	195.4	166.6	159.1	154.5	152.6	151.7
77.5°	4282.8	2999.4	476.5	339.7	221.5	158.2	139.6	133.1	128.4	126.6	126.6
80°	1193.1	857.1	280.1	224.3	150.8	120.1	110.7	106.1	99.6	94.9	97.7
82.5°	449.5	371.3	160.1	134.9	95.9	80.0	77.2	73.5	70.7	64.2	64.2
85°	218.7	180.5	102.4	71.7	53.0	41.9	40.0	38.2	36.3	31.6	32.6
87.5°	75.4	80.0	44.7	26.1	15.8	10.2	8.4	4.7	4.7	4.7	4.7
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)