

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: P453358

Luminaire Tested: **GALN-SA4B-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453358
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-SA4B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA 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: 16517 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

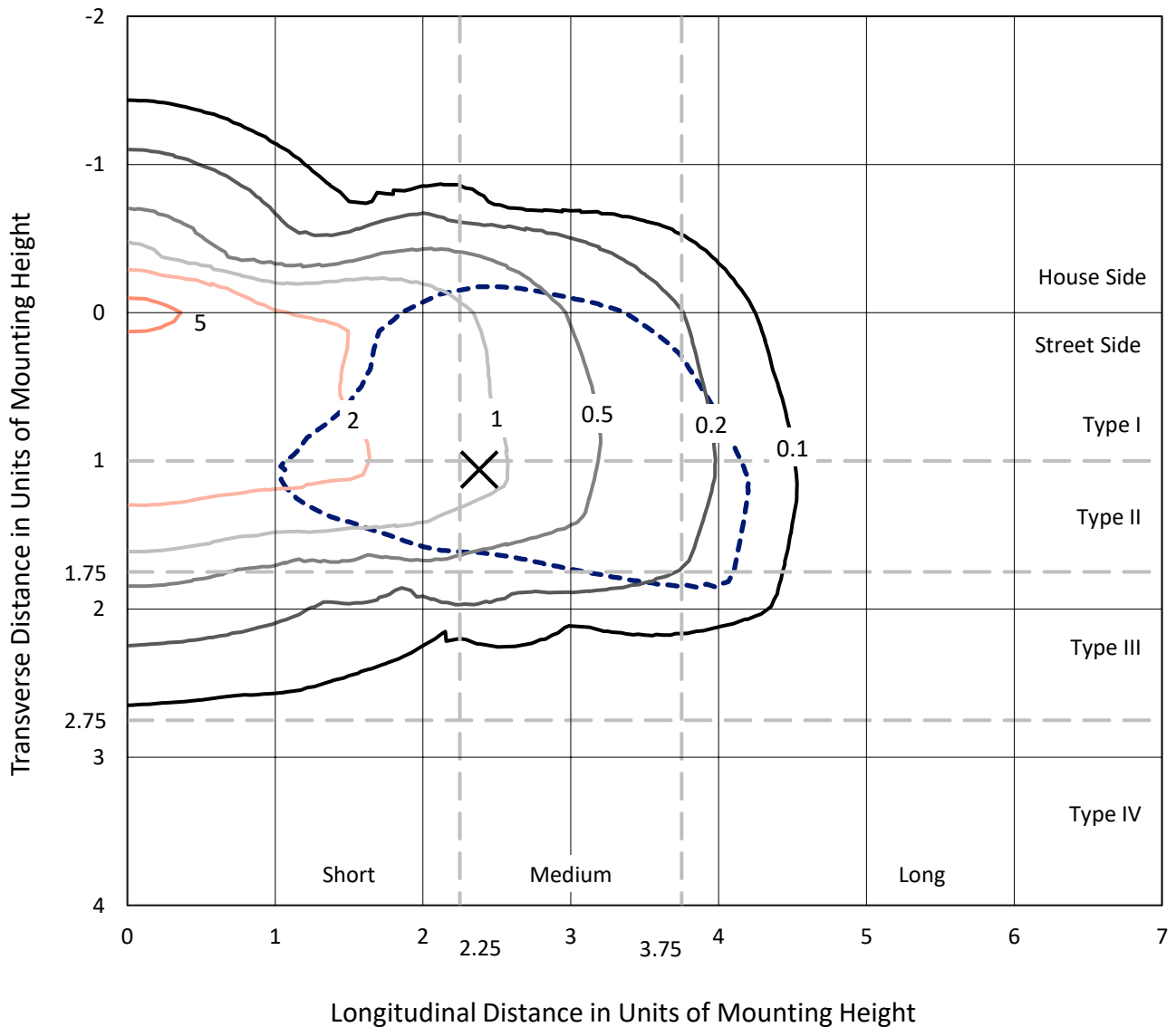
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

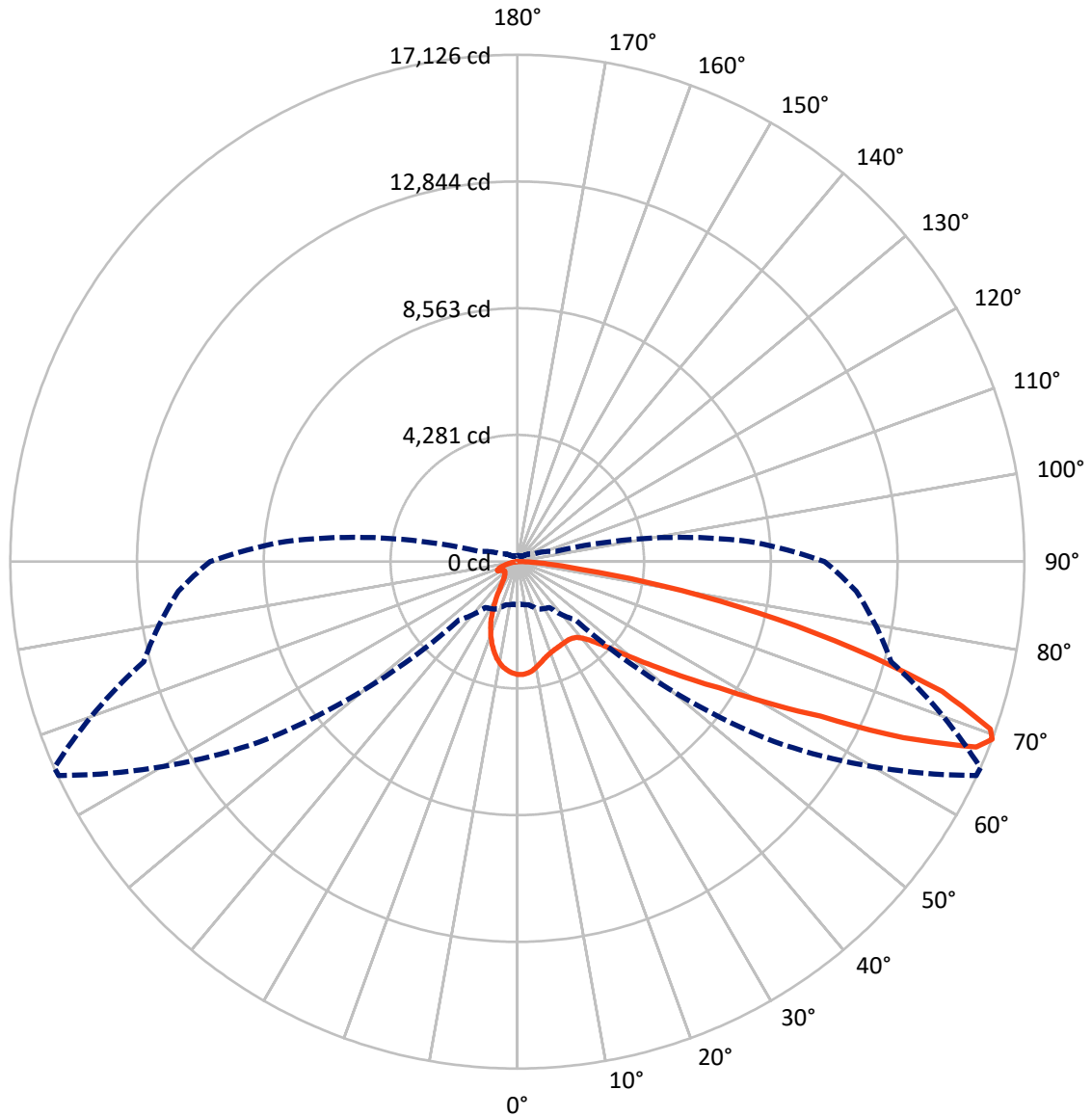
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	3106.2	0.0	3106.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13410.8	0.0	13410.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	16517.0	0.0	16517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	2.0
10°-20°	785.6	4.8
20°-30°	1069.5	6.5
30°-40°	1437.2	8.7
40°-50°	2146.0	13.0
50°-60°	3413.6	20.7
60°-70°	4198.6	25.4
70°-80°	2731.8	16.5
80°-90°	403.4	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°	16517.0	100.0
0°-180°	16517.0	100.0

Coefficient of Utilization



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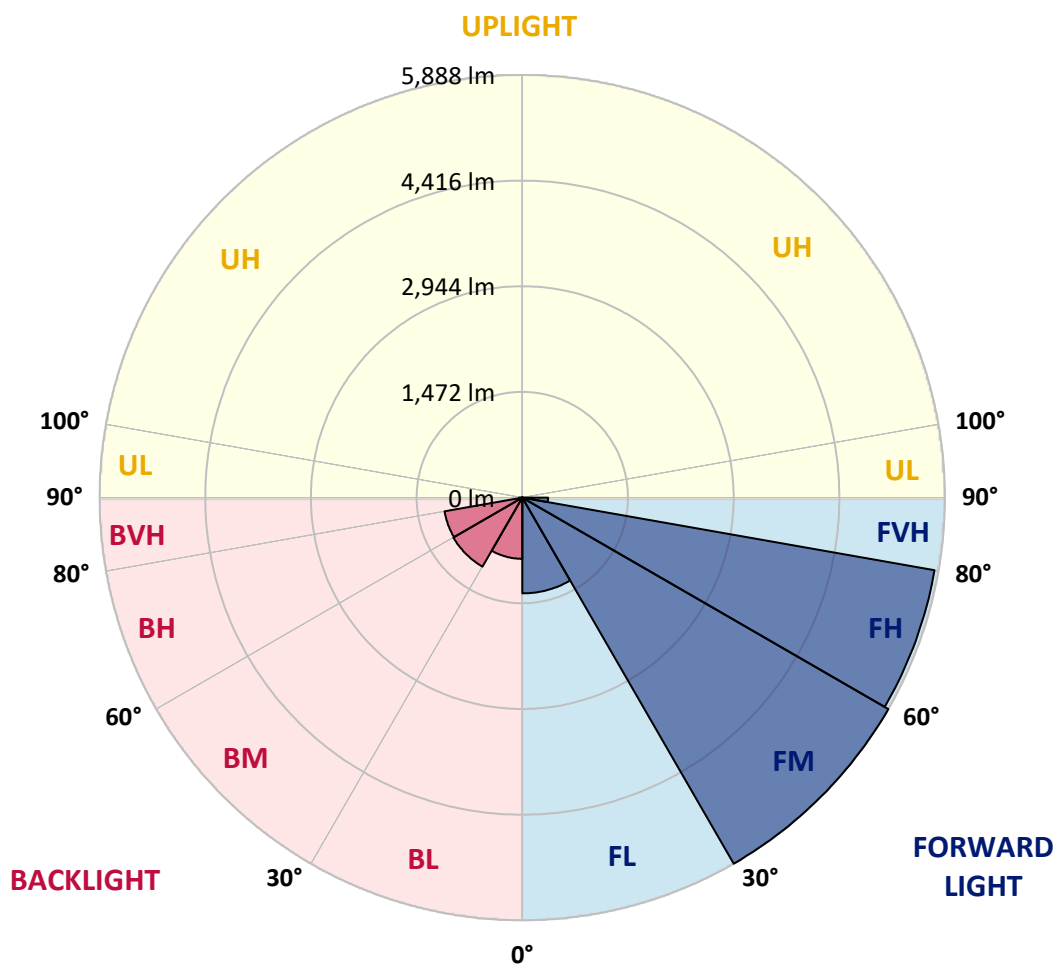
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1333.7	8.1			
FM	(30°-60°)	5887.8	35.6			
FH	(60°-80°)	5830.6	35.3			G3/7500
FVH	(80°-90°)	358.6	2.2			G3/500
BL	(0°-30°)	852.7	5.2	B2/1000		
BM	(30°-60°)	1109.1	6.7	B2/2500		
BH	(60°-80°)	1099.7	6.7	B3/2500		G3/2500
BVH	(80°-90°)	44.8	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°	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2
2.5°	3680.7	3695.3	3711.8	3730.1	3764.8	3784.0	3797.8	3813.3	3815.1	3823.4	3817.0
5°	3409.0	3426.4	3451.1	3485.9	3538.0	3619.4	3703.6	3772.2	3780.4	3818.8	3829.8
7.5°	3182.2	3192.2	3212.4	3268.2	3342.3	3432.8	3555.4	3694.4	3714.5	3806.0	3838.0
10°	2997.4	3007.5	3031.3	3088.9	3162.1	3275.5	3409.9	3592.9	3609.3	3766.7	3839.8
12.5°	2859.3	2868.5	2894.1	2950.8	3034.9	3141.0	3289.2	3483.1	3506.9	3714.5	3822.5
15°	2754.1	2771.5	2792.5	2839.2	2927.9	3030.3	3174.0	3382.5	3401.7	3659.7	3810.6
17.5°	2709.3	2717.5	2732.2	2775.2	2840.1	2940.7	3085.2	3303.8	3326.7	3621.2	3807.8
20°	2711.1	2719.4	2722.1	2745.9	2792.5	2879.4	3022.1	3241.6	3269.1	3587.4	3812.4
22.5°	2773.3	2774.2	2764.2	2755.9	2774.2	2846.5	2977.3	3195.0	3227.0	3572.8	3816.1
25°	2869.4	2885.8	2871.2	2832.8	2798.9	2833.7	2959.9	3169.4	3199.6	3551.7	3811.5
27.5°	3024.9	3027.6	3015.7	2963.6	2875.8	2850.2	2952.6	3150.2	3175.8	3536.2	3788.6
30°	3233.4	3225.2	3214.2	3156.6	3018.5	2913.3	2968.2	3132.8	3159.3	3513.3	3761.2
32.5°	3444.7	3470.3	3460.3	3392.6	3213.3	3035.8	3018.5	3131.0	3152.9	3495.9	3731.0
35°	3668.8	3680.7	3728.3	3693.5	3509.6	3234.3	3112.7	3159.3	3176.7	3496.8	3710.0
37.5°	3844.4	3876.4	3988.0	4018.2	3845.3	3496.8	3265.4	3239.8	3247.1	3541.7	3718.2
40°	4056.6	4111.5	4255.1	4378.6	4265.2	3838.0	3525.2	3388.9	3398.1	3649.6	3772.2
42.5°	4325.5	4364.0	4557.0	4724.3	4706.1	4289.0	3839.8	3633.1	3637.7	3864.5	3923.1
45°	4640.2	4695.1	4911.9	5163.4	5206.4	4799.3	4294.4	4002.7	3999.9	4198.4	4204.8
47.5°	5042.7	5076.5	5291.4	5565.9	5739.6	5440.5	4846.0	4533.2	4503.9	4685.0	4632.9
50°	5413.1	5466.2	5629.0	5929.0	6361.6	6191.5	5571.3	5221.0	5152.4	5321.6	5233.8
52.5°	5568.6	5624.4	5761.6	6133.9	6894.9	7162.9	6492.4	6041.5	5927.2	6057.0	6025.0
55°	5298.8	5371.0	5499.1	5951.9	7129.1	8283.4	7734.6	6990.0	6906.8	6851.0	6860.1
57.5°	4573.4	4642.0	4814.9	5314.3	6849.2	9096.5	9508.1	8209.3	8030.9	7773.9	7817.8
60°	3481.3	3524.3	3613.9	4167.3	6019.5	9307.8	11522.3	9750.5	9637.1	8693.2	8724.3
62.5°	2472.4	2520.9	2583.1	2859.3	4406.9	8712.4	13099.2	11902.8	11497.6	9645.3	9615.2
65°	2007.7	1974.8	2049.8	2178.8	2585.8	6752.2	13454.1	14890.1	14332.2	10899.4	10480.5
67.5°	1651.0	1616.2	1690.3	1919.9	1966.6	3919.4	12175.4	16829.3	16717.7	12263.2	11359.5
69°	1461.7	1443.4	1508.3	1769.9	1887.9	2783.4	10606.7	17099.1	17125.6	13067.2	11494.8
70°	1317.1	1324.5	1387.6	1694.0	1852.2	2294.9	9065.4	16726.8	16951.8	13468.7	11348.5
72.5°	969.6	985.1	1072.9	1403.1	1818.4	1947.4	5394.8	14610.3	15008.1	13492.5	10381.7
75°	677.8	670.5	748.2	1056.5	1717.8	1930.0	3168.5	11299.1	11750.0	11662.2	8723.3
77.5°	443.6	455.5	517.7	746.4	1445.2	1915.3	2065.4	8016.3	8309.0	7799.5	5159.7
80°	312.8	311.9	346.7	509.5	1072.0	1840.3	1691.3	5052.7	4978.6	3065.1	1530.3
82.5°	179.3	192.1	232.3	358.6	717.1	1619.9	1555.9	2416.6	2206.2	873.5	516.8
85°	99.7	104.3	138.1	216.8	418.9	1220.2	1358.3	1099.5	1037.3	365.0	222.3
87.5°	32.0	34.8	57.6	109.8	190.3	576.3	769.2	507.6	468.3	131.7	89.6
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°	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2	3814.2
2.5°	3819.7	3830.7	3801.4	3773.1	3747.5	3711.8	3679.8	3653.2	3635.0	3632.2	3623.1
5°	3832.5	3833.4	3777.6	3702.6	3629.5	3549.0	3465.7	3406.3	3350.5	3319.4	3303.8
7.5°	3841.7	3833.4	3732.8	3611.2	3470.3	3324.0	3177.6	3060.5	2970.0	2934.3	2948.0
10°	3838.0	3812.4	3665.1	3470.3	3265.4	3046.8	2836.4	2671.8	2520.9	2443.1	2445.0
12.5°	3817.9	3775.8	3564.5	3312.1	3011.1	2718.4	2396.5	2174.2	1999.5	1896.1	1864.1
15°	3800.5	3727.3	3446.5	3097.1	2723.0	2305.0	1912.6	1638.2	1491.9	1410.4	1409.5
17.5°	3782.2	3680.7	3317.6	2869.4	2391.9	1854.1	1442.5	1233.0	1164.4	1172.6	1158.9
20°	3763.0	3625.8	3183.1	2616.0	1988.5	1383.0	1080.2	995.2	1014.4	1051.9	1057.4
22.5°	3741.1	3567.3	3038.6	2337.0	1564.1	1040.9	876.3	863.5	912.9	971.4	979.6
25°	3707.2	3494.1	2856.6	2045.2	1206.5	838.8	767.4	776.6	825.0	874.4	879.9
27.5°	3659.7	3403.5	2672.7	1681.2	906.5	719.9	701.6	713.5	737.2	767.4	774.7
30°	3595.6	3301.1	2461.4	1366.5	726.3	660.4	653.1	659.5	673.2	686.0	689.7
32.5°	3531.6	3202.3	2248.3	1046.4	647.6	621.1	613.8	613.8	613.8	615.6	616.5
35°	3472.1	3109.0	2019.6	815.0	606.4	590.0	579.9	568.9	567.1	560.7	560.7
37.5°	3439.2	3023.9	1776.3	682.4	576.3	564.4	550.6	532.3	522.3	523.2	521.4
40°	3445.6	2968.2	1555.0	607.4	551.6	538.7	517.7	496.7	490.3	490.3	488.4
42.5°	3517.9	2949.9	1342.8	568.0	527.8	513.1	486.6	467.4	463.7	462.8	464.7
45°	3684.3	2994.7	1152.5	542.4	507.6	485.7	459.2	441.8	438.1	438.1	437.2
47.5°	4009.1	3140.1	1016.2	525.9	493.0	464.7	437.2	419.8	413.4	411.6	411.6
50°	4514.0	3455.7	914.7	511.3	474.7	445.5	417.1	397.0	386.9	386.0	385.1
52.5°	5215.5	3947.8	875.4	500.3	454.6	425.3	394.2	375.0	362.2	359.5	357.6
55°	6036.0	4634.7	929.3	492.1	433.6	402.5	370.4	350.3	338.4	332.9	332.0
57.5°	6986.4	5459.8	1134.2	481.1	414.4	377.8	346.7	326.5	313.7	307.3	305.5
60°	7839.8	6307.7	1491.9	474.7	397.9	351.2	319.2	300.9	289.0	282.6	281.7
62.5°	8777.3	7116.2	1919.0	492.1	390.6	325.6	293.6	277.1	267.1	260.7	260.7
65°	9778.9	7925.7	2201.6	550.6	401.5	305.5	266.2	252.5	243.3	238.7	237.8
67.5°	10453.9	8205.6	1813.8	611.0	429.0	283.6	239.6	228.7	223.2	218.6	218.6
69°	10380.8	7851.7	1338.2	626.6	437.2	272.6	225.0	216.8	209.5	207.6	205.8
70°	10149.3	7448.3	1121.4	616.5	430.8	262.5	215.9	205.8	199.4	197.6	196.7
72.5°	9039.8	6459.5	835.1	536.0	366.8	227.8	191.2	182.0	176.5	173.8	173.8
75°	7510.5	5279.6	652.2	426.2	287.2	192.1	163.7	156.4	151.8	150.0	149.1
77.5°	4209.4	2948.0	468.3	333.9	217.7	155.5	137.2	130.8	126.2	124.4	124.4
80°	1172.6	842.4	275.3	220.4	148.2	118.0	108.8	104.3	97.9	93.3	96.0
82.5°	441.8	365.0	157.3	132.6	94.2	78.7	75.9	72.3	69.5	63.1	63.1
85°	215.0	177.4	100.6	70.4	52.1	41.2	39.3	37.5	35.7	31.1	32.0
87.5°	74.1	78.7	43.9	25.6	15.5	10.1	8.2	4.6	4.6	4.6	4.6
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)