

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: P453213

Luminaire Tested: **GALN-SA4B-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453213
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-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 18791 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

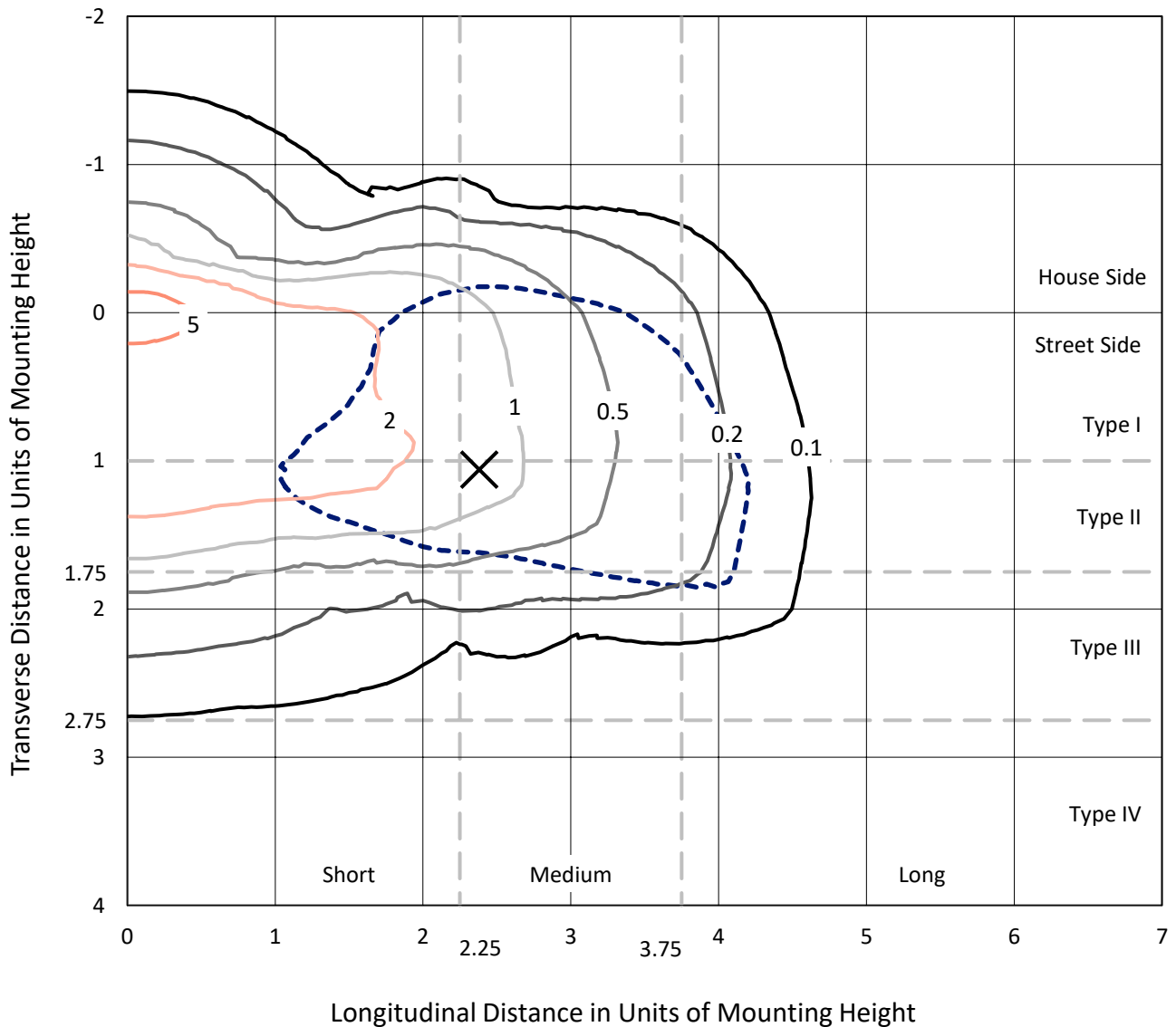
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

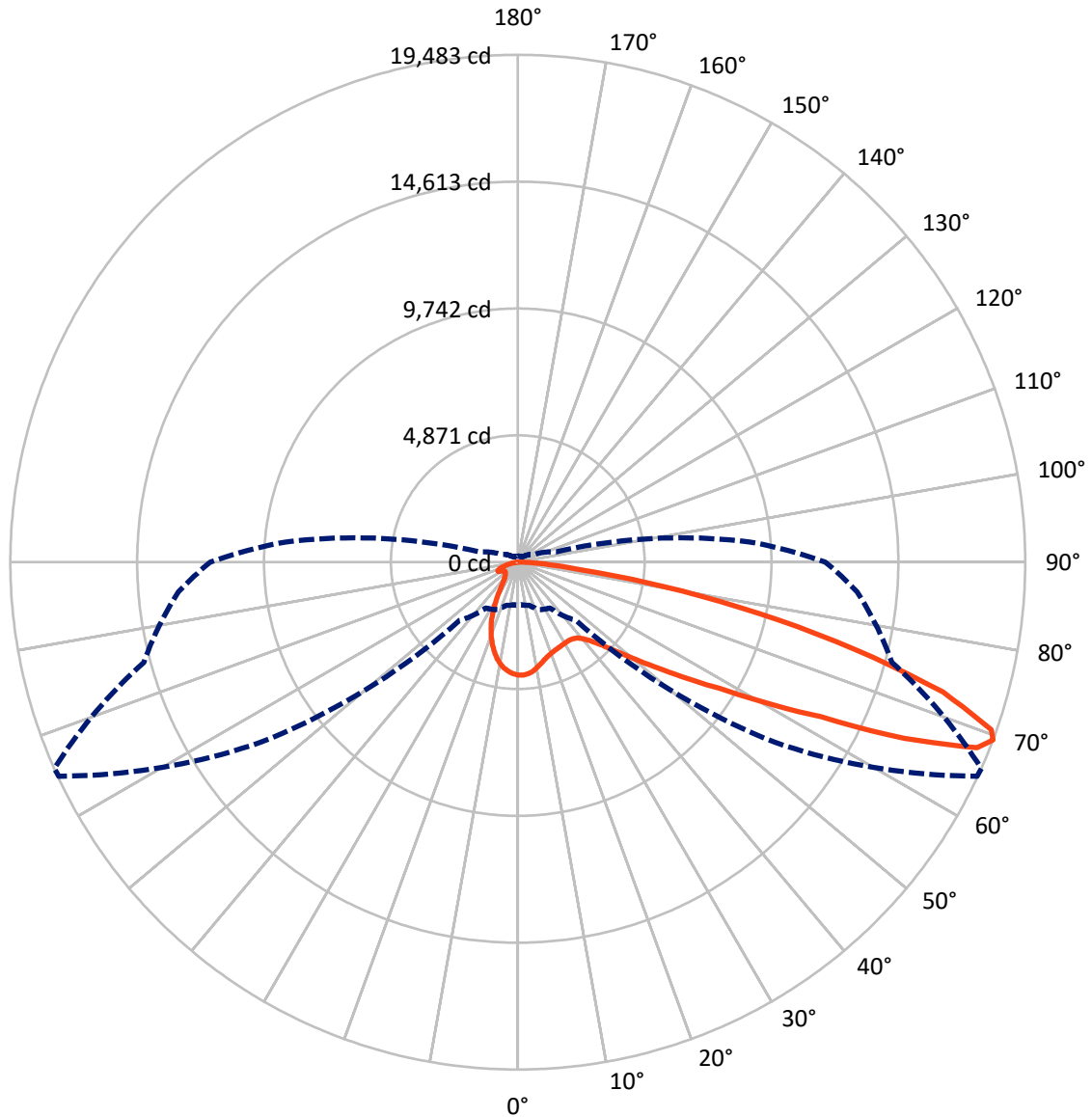
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3533.9	0.0	3533.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15257.1	0.0	15257.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	18791.0	0.0	18791.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.8	2.0
10°-20°	893.8	4.8
20°-30°	1216.8	6.5
30°-40°	1635.1	8.7
40°-50°	2441.5	13.0
50°-60°	3883.6	20.7
60°-70°	4776.6	25.4
70°-80°	3107.9	16.5
80°-90°	458.9	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°	18791.0	100.0
0°-180°	18791.0	100.0



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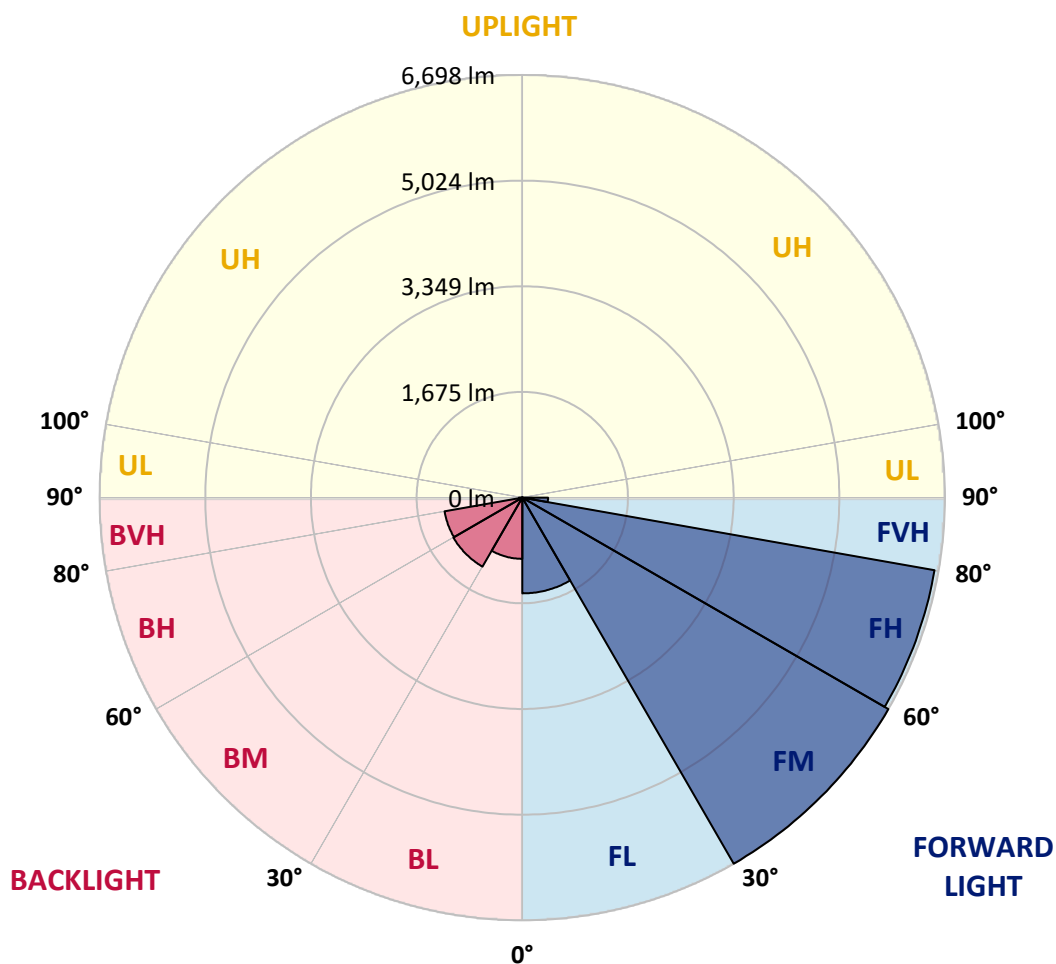
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1517.4	8.1			
FM	(30°-60°)	6698.4	35.6			
FH	(60°-80°)	6633.3	35.3			G3/7500
FVH	(80°-90°)	408.0	2.2			G3/500
BL	(0°-30°)	970.1	5.2	B2/1000		
BM	(30°-60°)	1261.8	6.7	B2/2500		
BH	(60°-80°)	1251.1	6.7	B3/2500		G3/2500
BVH	(80°-90°)	50.9	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°	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4
2.5°	4187.4	4204.1	4222.8	4243.6	4283.2	4305.0	4320.6	4338.3	4340.4	4349.8	4342.5
5°	3878.4	3898.1	3926.2	3965.8	4025.1	4117.7	4213.4	4291.5	4300.9	4344.6	4357.1
7.5°	3620.3	3631.7	3654.6	3718.1	3802.4	3905.4	4044.9	4203.0	4225.9	4330.0	4366.4
10°	3410.1	3421.5	3448.6	3514.2	3597.4	3726.4	3879.4	4087.5	4106.3	4285.3	4368.5
12.5°	3253.0	3263.4	3292.5	3357.0	3452.8	3573.5	3742.1	3962.7	3989.7	4225.9	4348.7
15°	3133.3	3153.1	3177.0	3230.1	3331.0	3447.6	3610.9	3848.2	3870.0	4163.5	4335.2
17.5°	3082.3	3091.7	3108.3	3157.2	3231.1	3345.6	3510.0	3758.7	3784.7	4119.8	4332.1
20°	3084.4	3093.7	3096.9	3123.9	3177.0	3275.9	3438.2	3687.9	3719.2	4081.3	4337.3
22.5°	3155.1	3156.2	3144.7	3135.4	3156.2	3238.4	3387.2	3634.9	3671.3	4064.6	4341.4
25°	3264.4	3283.1	3266.5	3222.8	3184.3	3223.8	3367.4	3605.7	3640.1	4040.7	4336.2
27.5°	3441.3	3444.4	3430.9	3371.6	3271.7	3242.6	3359.1	3583.9	3613.0	4023.0	4310.2
30°	3678.6	3669.2	3656.7	3591.2	3434.0	3314.4	3376.8	3564.1	3594.3	3997.0	4279.0
32.5°	3919.0	3948.1	3936.6	3859.6	3655.7	3453.8	3434.0	3562.0	3587.0	3977.2	4244.7
35°	4173.9	4187.4	4241.5	4202.0	3992.8	3679.6	3541.2	3594.3	3614.1	3978.3	4220.7
37.5°	4373.7	4410.1	4537.1	4571.4	4374.7	3978.3	3715.0	3685.9	3694.2	4029.3	4230.1
40°	4615.1	4677.6	4840.9	4981.4	4852.4	4366.4	4010.5	3855.5	3865.9	4152.1	4291.5
42.5°	4921.1	4964.8	5184.3	5374.8	5354.0	4879.4	4368.5	4133.3	4138.5	4396.6	4463.2
45°	5279.0	5341.5	5588.1	5874.3	5923.2	5460.1	4885.7	4553.7	4550.6	4776.4	4783.7
47.5°	5736.9	5775.4	6020.0	6332.1	6529.9	6189.6	5513.2	5157.3	5124.0	5330.0	5270.7
50°	6158.4	6218.7	6403.9	6745.3	7237.5	7043.9	6338.4	5939.8	5861.8	6054.3	5954.4
52.5°	6335.3	6398.7	6554.8	6978.4	7844.2	8149.1	7386.3	6873.3	6743.2	6891.0	6854.5
55°	6028.3	6110.5	6256.2	6771.3	8110.6	9423.8	8799.4	7952.4	7857.7	7794.2	7804.6
57.5°	5203.1	5281.1	5477.8	6046.0	7792.1	10348.9	10817.2	9339.5	9136.6	8844.2	8894.1
60°	3960.6	4009.5	4111.5	4741.0	6848.3	10589.3	13108.6	11093.0	10963.9	9890.0	9925.4
62.5°	2812.8	2867.9	2938.7	3253.0	5013.7	9911.9	14902.6	13541.5	13080.5	10973.3	10938.9
65°	2284.1	2246.7	2332.0	2478.7	2941.8	7681.8	15306.4	16940.2	16305.4	12400.0	11923.4
67.5°	1878.3	1838.8	1923.1	2184.3	2237.3	4459.0	13851.6	19146.3	19019.3	13951.5	12923.4
69°	1662.9	1642.1	1716.0	2013.6	2147.8	3166.6	12067.0	19453.3	19483.4	14866.2	13077.4
70°	1498.5	1506.8	1578.6	1927.2	2107.2	2610.9	10313.5	19029.7	19285.7	15323.1	12910.9
72.5°	1103.1	1120.7	1220.6	1596.3	2068.7	2215.5	6137.5	16621.7	17074.4	15350.1	11811.0
75°	771.1	762.8	851.2	1201.9	1954.3	2195.7	3604.7	12854.7	13367.7	13267.8	9924.3
77.5°	504.7	518.2	589.0	849.1	1644.2	2179.0	2349.7	9119.9	9452.9	8873.3	5870.1
80°	355.9	354.8	394.4	579.6	1219.6	2093.7	1924.1	5748.4	5664.1	3487.1	1740.9
82.5°	204.0	218.5	264.3	407.9	815.8	1842.9	1770.1	2749.3	2510.0	993.8	587.9
85°	113.4	118.6	157.1	246.6	476.6	1388.2	1545.3	1250.8	1180.1	415.2	252.9
87.5°	36.4	39.5	65.6	124.9	216.4	655.6	875.2	577.5	532.8	149.8	102.0
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°	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4	4339.4
2.5°	4345.6	4358.1	4324.8	4292.5	4263.4	4222.8	4186.4	4156.2	4135.4	4132.3	4121.9
5°	4360.2	4361.2	4297.7	4212.4	4129.2	4037.6	3942.9	3875.2	3811.8	3776.4	3758.7
7.5°	4370.6	4361.2	4246.7	4108.3	3948.1	3781.6	3615.1	3481.9	3378.9	3338.3	3353.9
10°	4366.4	4337.3	4169.7	3948.1	3715.0	3466.3	3226.9	3039.6	2867.9	2779.5	2781.6
12.5°	4343.5	4295.7	4055.3	3768.1	3425.7	3092.7	2726.4	2473.5	2274.8	2157.2	2120.8
15°	4323.8	4240.5	3921.0	3523.5	3097.9	2622.3	2175.9	1863.7	1697.2	1604.6	1603.6
17.5°	4302.9	4187.4	3774.3	3264.4	2721.2	2109.3	1641.0	1402.7	1324.7	1334.1	1318.5
20°	4281.1	4125.0	3621.3	2976.2	2262.3	1573.4	1229.0	1132.2	1154.0	1196.7	1203.0
22.5°	4256.1	4058.4	3456.9	2658.8	1779.5	1184.2	996.9	982.3	1038.5	1105.1	1114.5
25°	4217.6	3975.1	3249.8	2326.8	1372.6	954.2	873.1	883.5	938.6	994.8	1001.1
27.5°	4163.5	3872.1	3040.7	1912.7	1031.2	819.0	798.2	811.7	838.7	873.1	881.4
30°	4090.7	3755.6	2800.3	1554.7	826.2	751.3	743.0	750.3	765.9	780.5	784.6
32.5°	4017.8	3643.2	2557.8	1190.5	736.8	706.6	698.3	698.3	698.3	700.3	701.4
35°	3950.2	3537.0	2297.7	927.2	689.9	671.2	659.7	647.3	645.2	637.9	637.9
37.5°	3912.7	3440.3	2020.9	776.3	655.6	642.1	626.5	605.6	594.2	595.2	593.2
40°	3920.0	3376.8	1769.0	691.0	627.5	612.9	589.0	565.1	557.8	557.8	555.7
42.5°	4002.2	3356.0	1527.6	646.2	600.4	583.8	553.6	531.8	527.6	526.6	528.6
45°	4191.6	3407.0	1311.2	617.1	577.5	552.6	522.4	502.6	498.5	498.5	497.4
47.5°	4561.0	3572.4	1156.1	598.4	560.9	528.6	497.4	477.6	470.4	468.3	468.3
50°	5135.4	3931.4	1040.6	581.7	540.1	506.8	474.5	451.6	440.2	439.1	438.1
52.5°	5933.6	4491.3	995.9	569.2	517.2	483.9	448.5	426.7	412.1	409.0	406.9
55°	6867.0	5272.8	1057.3	559.9	493.3	457.9	421.4	398.6	385.0	378.8	377.7
57.5°	7948.2	6211.4	1290.4	547.4	471.4	429.8	394.4	371.5	356.9	349.6	347.6
60°	8919.1	7176.1	1697.2	540.1	452.7	399.6	363.2	342.4	328.8	321.5	320.5
62.5°	9985.7	8096.0	2183.2	559.9	444.3	370.5	334.0	315.3	303.9	296.6	296.6
65°	11125.2	9016.9	2504.8	626.5	456.8	347.6	302.8	287.2	276.8	271.6	270.6
67.5°	11893.2	9335.4	2063.5	695.1	488.0	322.6	272.6	260.2	253.9	248.7	248.7
69°	11809.9	8932.6	1522.4	712.8	497.4	310.1	256.0	246.6	238.3	236.2	234.1
70°	11546.7	8473.7	1275.8	701.4	490.1	298.7	245.6	234.1	226.9	224.8	223.7
72.5°	10284.4	7348.8	950.1	609.8	417.3	259.1	217.5	207.1	200.8	197.7	197.7
75°	8544.5	6006.4	742.0	484.9	326.8	218.5	186.3	177.9	172.7	170.7	169.6
77.5°	4788.9	3353.9	532.8	379.8	247.7	176.9	156.1	148.8	143.6	141.5	141.5
80°	1334.1	958.4	313.2	250.8	168.6	134.2	123.8	118.6	111.3	106.1	109.3
82.5°	502.6	415.2	179.0	150.9	107.2	89.5	86.4	82.2	79.1	71.8	71.8
85°	244.5	201.9	114.5	80.1	59.3	46.8	44.7	42.7	40.6	35.4	36.4
87.5°	84.3	89.5	49.9	29.1	17.7	11.4	9.4	5.2	5.2	5.2	5.2
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)