

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: P452753

Luminaire Tested: **GALN-SA3D-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452753
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-SA3D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 18905 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

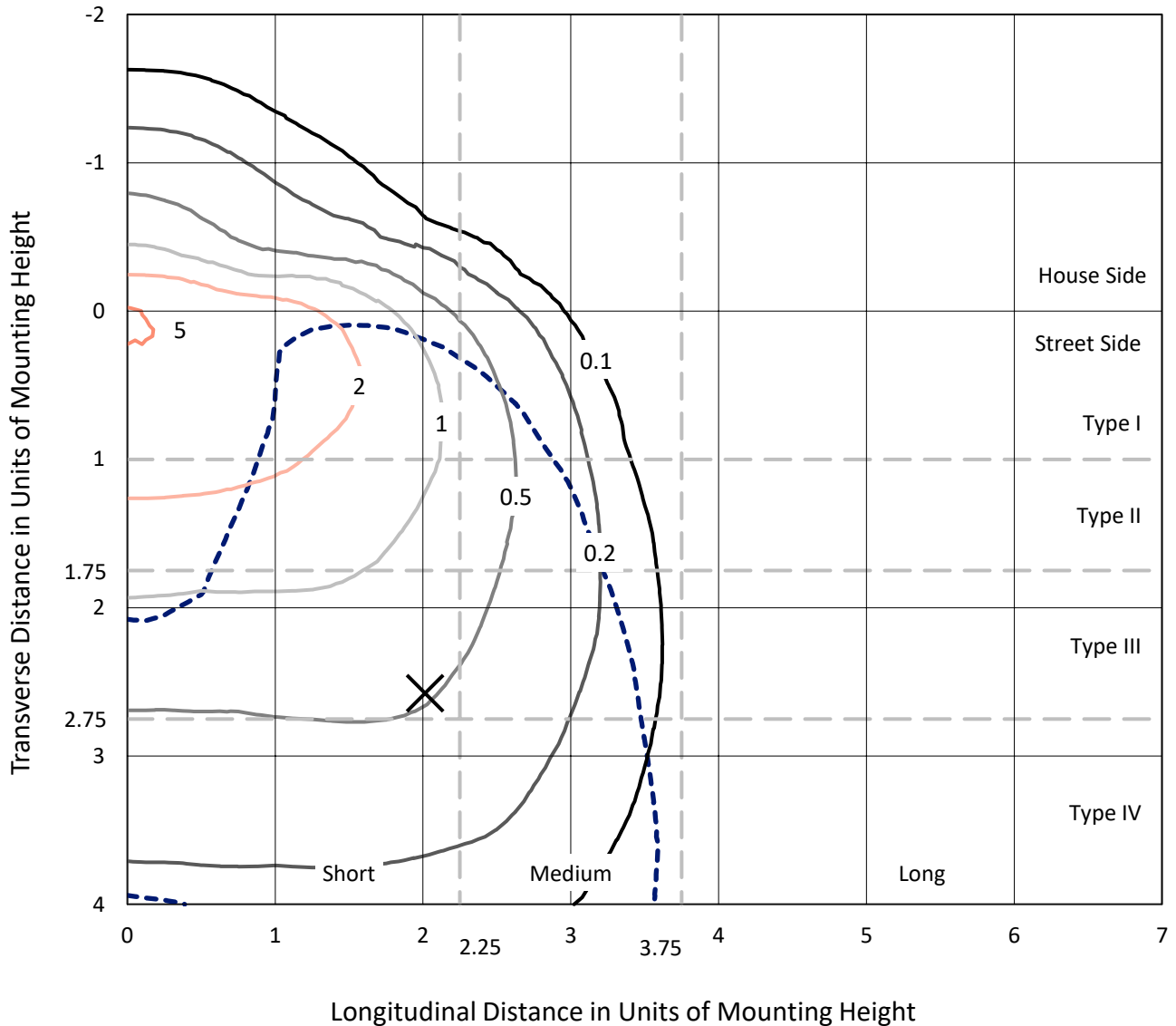
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

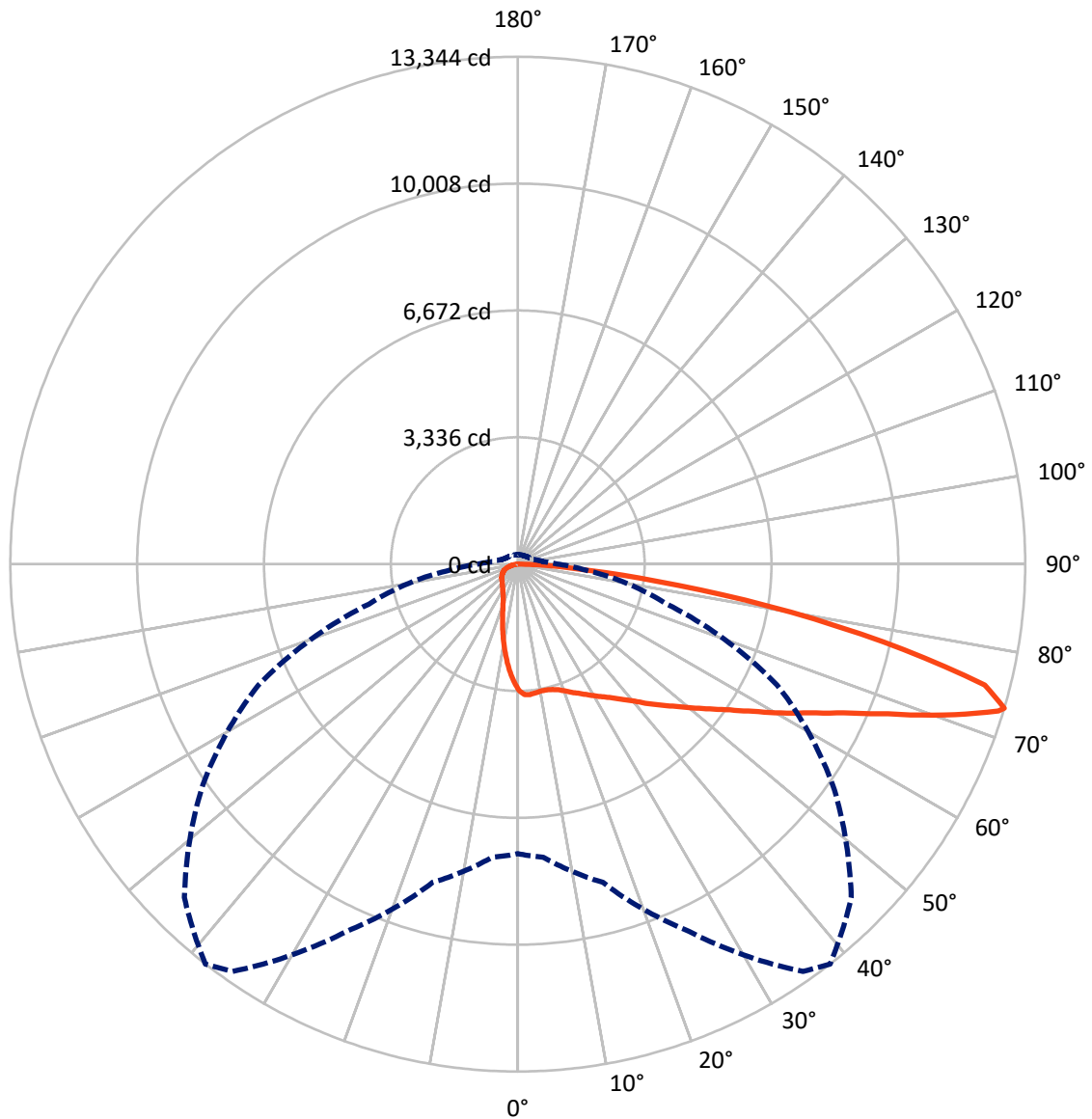
× Max cd
 - - - 1/2 Max cd



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	2541.4	0.0	2541.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16363.6	0.0	16363.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	18905.0	0.0	18905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.9	1.5
10°-20°	743.4	3.9
20°-30°	1157.7	6.1
30°-40°	1698.0	9.0
40°-50°	2518.8	13.3
50°-60°	3568.7	18.9
60°-70°	4527.0	23.9
70°-80°	3768.4	19.9
80°-90°	633.1	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°	18905.0	100.0
0°-180°	18905.0	100.0

Coefficient of Utilization



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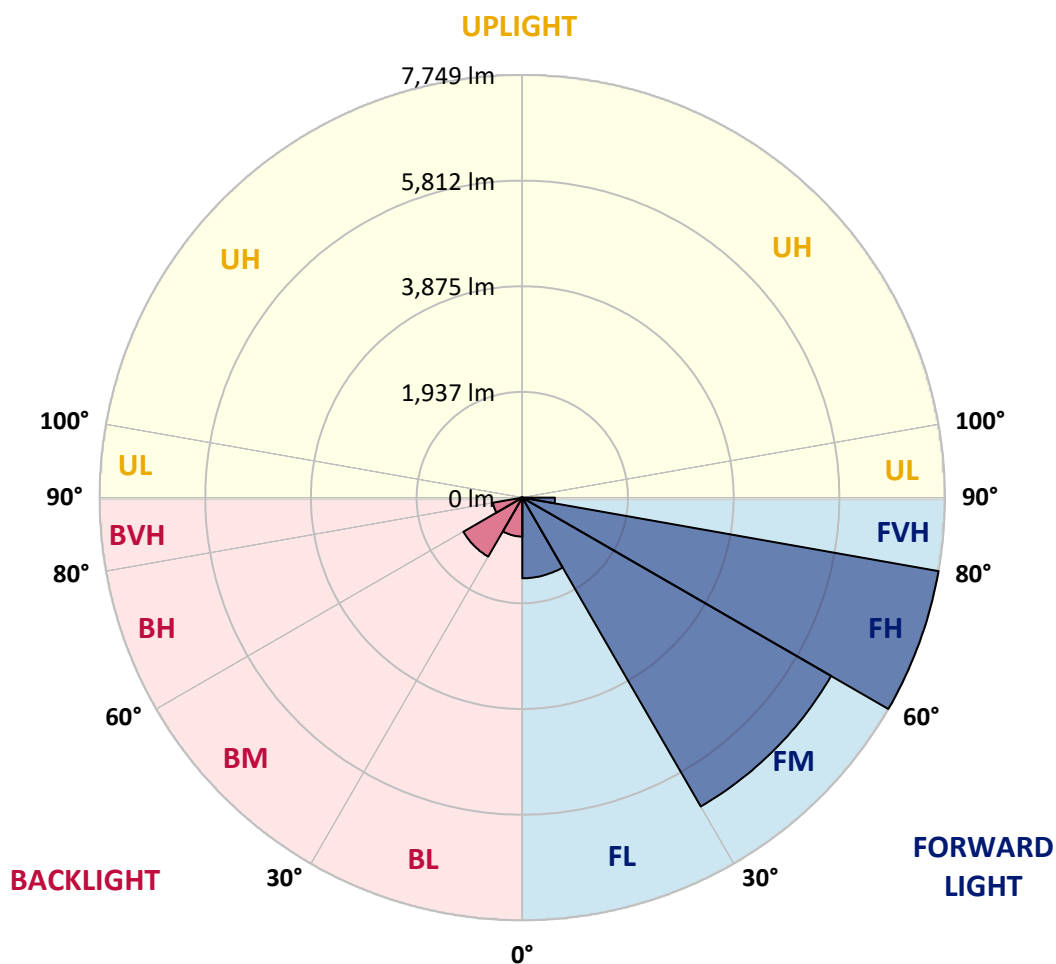
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1477.9	7.8			
FM (30°-60°)	6537.9	34.6			
FH (60°-80°)	7749.1	41.0			G4/12000
FVH (80°-90°)	598.8	3.2			G4/750
BL (0°-30°)	713.1	3.8	B2/1000		
BM (30°-60°)	1247.7	6.6	B2/2500		
BH (60°-80°)	546.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	34.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3
2.5°	3454.7	3471.8	3463.3	3451.5	3444.1	3436.6	3425.9	3395.0	3370.4	3343.7	3302.1
5°	3480.4	3491.0	3483.6	3468.6	3451.5	3444.1	3423.8	3383.2	3343.7	3298.9	3236.9
7.5°	3465.4	3469.7	3461.1	3443.0	3428.0	3414.2	3390.7	3345.8	3297.8	3243.4	3162.2
10°	3412.0	3428.0	3428.0	3413.1	3398.2	3390.7	3367.2	3324.5	3280.7	3218.8	3122.7
12.5°	3368.3	3385.3	3399.2	3395.0	3393.9	3393.9	3375.7	3343.7	3292.5	3233.7	3119.5
15°	3338.4	3358.7	3388.5	3405.6	3416.3	3419.5	3412.0	3384.3	3332.0	3263.6	3132.3
17.5°	3332.0	3356.5	3411.0	3448.3	3476.1	3475.0	3472.9	3434.5	3376.8	3306.3	3148.3
20°	3360.8	3392.8	3468.6	3527.3	3567.9	3560.4	3548.7	3498.5	3431.3	3352.2	3163.3
22.5°	3447.3	3480.4	3563.6	3627.7	3667.2	3667.2	3632.0	3565.8	3494.2	3405.6	3183.6
25°	3571.1	3607.4	3696.0	3761.1	3779.3	3765.4	3730.2	3650.1	3567.9	3482.5	3226.3
27.5°	3722.7	3766.5	3848.7	3903.1	3897.8	3887.1	3850.8	3748.3	3666.1	3588.2	3298.9
30°	3911.7	3943.7	4029.1	4041.9	4022.7	4020.6	3969.3	3866.8	3790.0	3730.2	3402.4
32.5°	4090.0	4118.8	4187.1	4192.4	4158.3	4162.6	4114.5	4020.6	3976.8	3955.4	3576.4
35°	4278.9	4293.9	4352.6	4346.2	4323.8	4320.6	4301.3	4211.7	4225.5	4264.0	3823.1
37.5°	4436.9	4466.8	4499.9	4505.3	4504.2	4514.9	4527.7	4485.0	4565.0	4685.7	4146.5
40°	4582.1	4607.7	4656.8	4673.9	4715.6	4736.9	4780.7	4781.8	4966.5	5165.0	4544.8
42.5°	4680.3	4724.1	4815.9	4846.9	4948.3	5012.4	5077.5	5146.9	5414.8	5670.0	5014.5
45°	4765.7	4823.4	4976.1	5072.1	5209.9	5287.8	5425.5	5570.7	5956.1	6290.3	5491.7
47.5°	4894.9	4946.2	5121.3	5291.0	5499.2	5588.9	5794.9	6011.6	6515.5	6881.7	5948.6
50°	5074.3	5105.2	5283.5	5560.0	5825.9	5941.2	6213.4	6526.2	7113.4	7465.7	6350.1
52.5°	5303.8	5316.6	5458.6	5826.9	6177.1	6320.2	6681.0	7046.1	7636.5	7972.8	6668.2
55°	5575.0	5553.6	5664.7	6109.8	6578.5	6765.3	7152.9	7572.5	8224.8	8382.8	6899.9
57.5°	5842.9	5809.9	5898.5	6453.6	7073.9	7299.1	7750.7	8114.8	8750.0	8766.0	7062.1
60°	6126.9	6102.4	6208.1	6857.2	7681.3	7948.2	8365.7	8677.4	9258.2	9032.9	7087.8
62.5°	6418.4	6378.9	6529.4	7310.9	8365.7	8608.0	9012.6	9275.3	9756.8	9132.2	6841.1
65°	6701.3	6683.1	6915.9	7850.0	9145.0	9420.5	9813.3	9991.6	10156.0	8982.7	6229.4
67.5°	7002.4	7038.7	7410.2	8569.6	10161.4	10507.3	10931.1	10763.5	10270.3	8274.9	5246.2
70°	7461.4	7484.9	8059.3	9512.3	11471.3	11888.7	12093.7	11037.9	9719.4	6930.8	3943.7
72.5°	7658.9	7762.5	8639.0	10501.9	12959.5	13214.7	12484.5	10426.1	8096.6	4708.1	2072.2
73°	7615.2	7739.0	8665.7	10652.5	13075.9	13343.9	12401.2	10111.2	7526.5	4054.7	1776.5
75°	7069.6	7222.3	8318.7	10526.5	12849.6	12689.4	11062.4	8617.6	5086.0	1843.7	809.2
77.5°	5578.2	5622.0	6591.3	8500.2	10118.7	9821.9	8279.2	5386.0	2077.5	685.4	459.1
80°	2798.2	2959.4	3715.2	4869.3	6766.4	6669.3	5225.9	2547.3	865.8	402.5	304.3
82.5°	1346.2	1460.5	1809.6	2374.3	3738.7	3650.1	2587.9	1392.1	549.8	234.9	179.4
85°	866.9	952.3	1151.9	1132.7	1537.3	1467.9	1162.6	1053.7	325.6	122.8	124.9
87.5°	572.2	626.7	751.6	601.1	559.4	506.0	513.5	593.6	64.1	47.0	17.1
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°	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3	3321.3
2.5°	3285.0	3271.1	3225.2	3180.4	3137.7	3097.1	3070.4	3035.2	3011.7	3018.1	3027.7
5°	3202.8	3171.8	3090.7	3011.7	2937.0	2848.3	2776.8	2719.2	2675.4	2659.4	2656.2
7.5°	3116.3	3064.0	2947.6	2812.0	2685.0	2575.0	2448.0	2385.0	2311.3	2285.7	2277.2
10°	3064.0	2993.5	2830.2	2641.2	2450.1	2267.6	2129.9	2017.8	1916.3	1897.1	1887.5
12.5°	3049.1	2956.2	2736.2	2492.8	2238.7	2014.6	1810.6	1663.3	1565.1	1542.7	1509.6
15°	3040.5	2925.2	2648.7	2343.4	2021.0	1747.7	1533.1	1361.2	1271.5	1211.7	1212.8
17.5°	3033.0	2890.0	2550.5	2180.0	1833.1	1518.1	1281.1	1126.3	1044.1	1012.1	1008.9
20°	3022.4	2848.3	2437.3	2008.1	1618.5	1308.9	1094.3	979.0	923.5	896.8	895.7
22.5°	3018.1	2807.8	2326.3	1833.1	1428.4	1147.7	970.4	889.3	854.1	835.9	835.9
25°	3028.8	2778.9	2209.9	1666.5	1259.8	1009.9	885.0	829.5	809.2	799.6	796.4
27.5°	3061.9	2766.1	2094.6	1500.0	1105.0	916.0	827.4	789.0	774.0	766.5	767.6
30°	3124.9	2765.1	1981.5	1335.6	989.7	844.5	781.5	754.8	743.0	738.8	737.7
32.5°	3226.3	2788.6	1870.4	1200.0	892.5	784.7	738.8	719.6	714.2	711.0	710.0
35°	3398.2	2854.7	1760.5	1076.1	817.8	731.3	698.2	688.6	681.1	684.3	685.4
37.5°	3629.8	2969.0	1655.8	979.0	761.2	691.8	664.0	655.5	651.2	654.4	657.6
40°	3940.5	3133.4	1568.3	901.1	720.6	658.7	634.2	626.7	622.4	627.7	628.8
42.5°	4283.2	3323.4	1495.7	840.2	687.5	630.9	607.5	598.9	595.7	598.9	600.0
45°	4635.5	3544.4	1458.3	796.4	659.8	610.7	586.1	576.5	569.0	566.9	570.1
47.5°	4982.5	3736.6	1457.3	769.7	637.4	592.5	565.8	555.1	545.5	540.2	539.1
50°	5265.4	3889.2	1482.9	758.0	618.1	572.2	545.5	534.9	522.1	511.4	513.5
52.5°	5478.9	3988.5	1494.6	752.7	607.5	550.9	524.2	514.6	499.6	485.8	485.8
55°	5616.6	4012.0	1465.8	747.3	598.9	528.5	499.6	491.1	476.1	462.3	462.3
57.5°	5663.6	3939.4	1362.3	734.5	590.4	509.2	475.1	467.6	455.9	442.0	439.8
60°	5554.7	3693.9	1180.8	696.1	573.3	489.0	448.4	445.2	440.9	429.2	428.1
62.5°	5135.1	3172.9	983.3	645.9	544.5	467.6	423.8	429.2	432.4	426.0	424.9
65°	4436.9	2576.1	840.2	576.5	506.0	437.7	397.1	411.0	419.6	419.6	417.4
67.5°	3598.9	1978.3	707.8	516.7	458.0	397.1	367.3	377.9	384.3	382.2	387.5
70°	2558.0	1339.8	576.5	448.4	397.1	351.2	328.8	328.8	324.5	322.4	322.4
72.5°	1240.5	765.5	467.6	374.7	338.4	300.0	281.8	274.4	265.8	264.8	259.4
73°	1036.6	686.5	446.3	360.8	324.5	292.5	272.2	260.5	255.2	250.9	249.8
75°	630.9	521.0	372.6	304.3	276.5	252.0	233.8	223.1	217.8	214.6	213.5
77.5°	415.3	388.6	289.3	232.7	211.4	196.4	189.0	178.3	175.1	170.8	170.8
80°	309.6	296.8	207.1	164.4	151.6	138.8	136.7	134.5	126.0	120.6	118.5
82.5°	199.6	211.4	140.9	110.0	96.1	85.4	86.5	89.7	81.1	73.7	71.5
85°	142.0	152.7	85.4	50.2	40.6	35.2	39.5	35.2	36.3	28.8	23.5
87.5°	23.5	40.6	14.9	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)