

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: P646893

Luminaire Tested: **GALN-SA4C-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646893
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-SA4C-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA 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: 21315.6 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

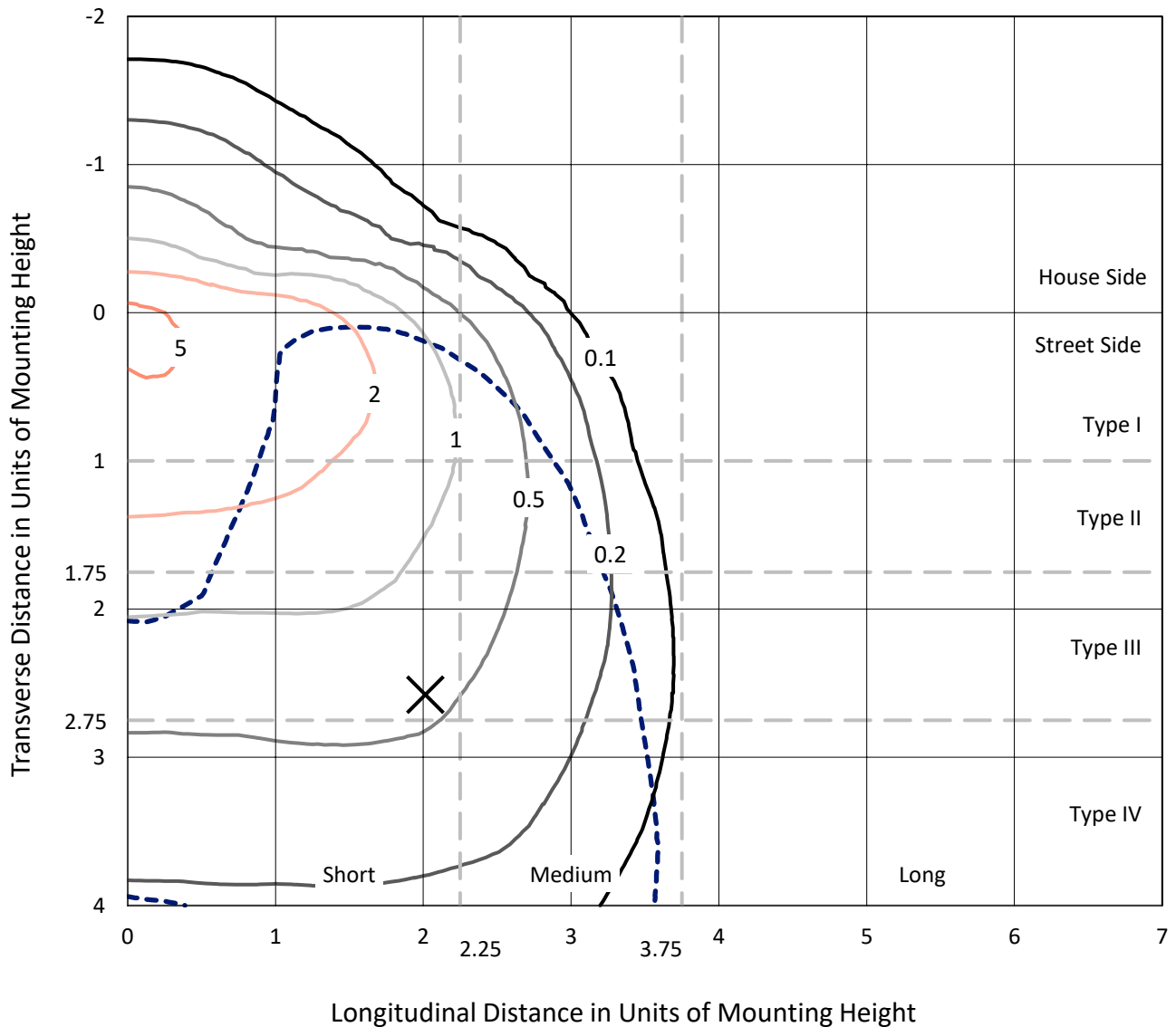
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

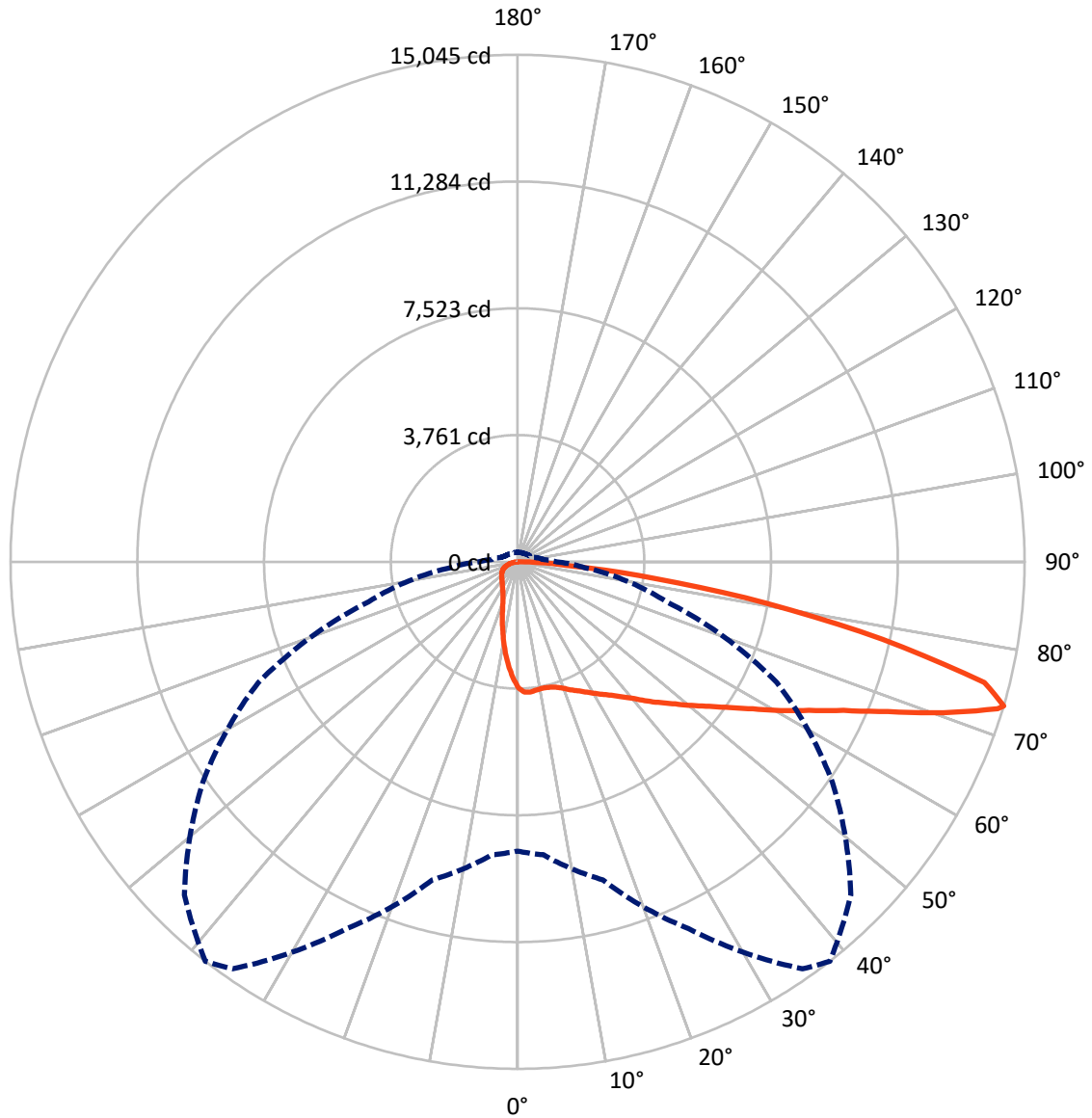
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2865.5	0.0	2865.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18450.2	0.0	18450.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	21315.6	0.0	21315.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.9	1.5
10°-20°	838.2	3.9
20°-30°	1305.3	6.1
30°-40°	1914.5	9.0
40°-50°	2840.0	13.3
50°-60°	4023.7	18.9
60°-70°	5104.2	23.9
70°-80°	4248.9	19.9
80°-90°	713.9	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°	21315.6	100.0
0°-180°	21315.6	100.0

Coefficient of Utilization



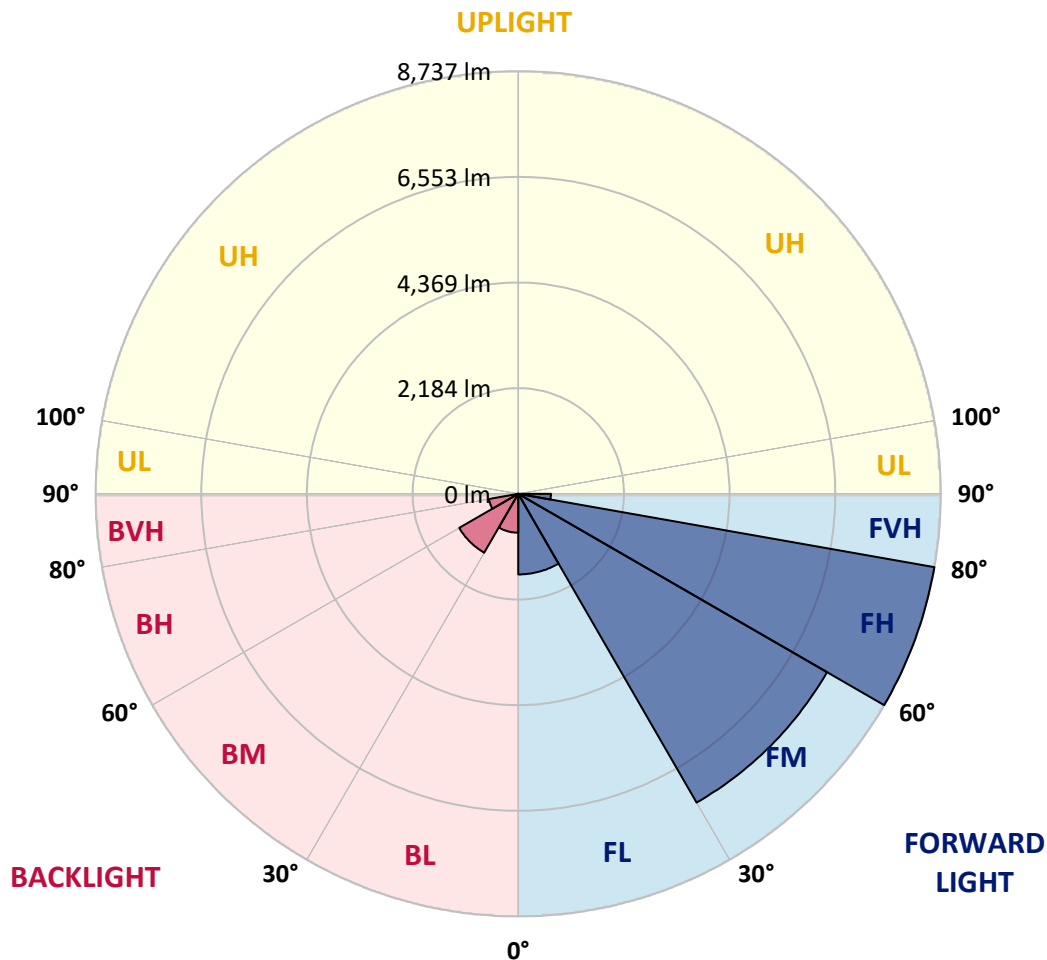
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1666.3	7.8			
FM (30°-60°)	7371.5	34.6			
FH (60°-80°)	8737.2	41.0			G4/12000
FVH (80°-90°)	675.2	3.2			G4/750
BL (0°-30°)	804.1	3.8	B2/1000		
BM (30°-60°)	1406.8	6.6	B2/2500		
BH (60°-80°)	615.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	38.7	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°	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8
2.5°	3895.3	3914.5	3904.9	3891.7	3883.2	3874.8	3862.8	3827.9	3800.1	3770.1	3723.1
5°	3924.2	3936.2	3927.8	3910.9	3891.7	3883.2	3860.3	3814.6	3770.1	3719.5	3649.7
7.5°	3907.3	3912.1	3902.5	3882.0	3865.2	3849.5	3823.0	3772.5	3718.3	3656.9	3565.5
10°	3847.1	3865.2	3865.2	3848.3	3831.5	3823.0	3796.5	3748.4	3699.0	3629.2	3520.9
12.5°	3797.8	3817.0	3832.6	3827.9	3826.7	3826.7	3806.2	3770.1	3712.3	3646.1	3517.3
15°	3764.0	3786.9	3820.6	3839.9	3851.9	3855.6	3847.1	3815.8	3756.8	3679.8	3531.7
17.5°	3756.8	3784.6	3845.9	3888.1	3919.3	3918.1	3915.7	3872.4	3807.4	3727.9	3549.8
20°	3789.3	3825.4	3910.9	3977.1	4022.8	4014.4	4001.2	3944.6	3868.8	3779.7	3566.6
22.5°	3886.8	3924.2	4018.0	4090.2	4134.8	4134.8	4095.1	4020.5	3939.8	3839.9	3589.5
25°	4026.5	4067.4	4167.3	4240.7	4261.2	4245.5	4205.8	4115.5	4022.8	3926.6	3637.7
27.5°	4197.4	4246.8	4339.5	4400.9	4394.8	4382.8	4341.8	4226.2	4133.6	4045.8	3719.5
30°	4410.5	4446.6	4542.9	4557.3	4535.6	4533.3	4475.5	4359.9	4273.2	4205.8	3836.3
32.5°	4611.5	4644.0	4721.0	4727.0	4688.5	4693.3	4639.2	4533.3	4483.8	4459.8	4032.4
35°	4824.5	4841.4	4907.6	4900.4	4875.1	4871.5	4849.8	4748.7	4764.3	4807.7	4310.6
37.5°	5002.7	5036.4	5073.7	5079.7	5078.5	5090.5	5105.0	5056.8	5147.1	5283.1	4675.3
40°	5166.4	5195.3	5250.6	5269.9	5316.9	5340.9	5390.3	5391.5	5599.7	5823.6	5124.3
42.5°	5277.1	5326.5	5430.0	5464.9	5579.3	5651.5	5724.9	5803.1	6105.3	6393.0	5653.9
45°	5373.4	5438.4	5610.6	5718.9	5874.1	5962.1	6117.3	6281.1	6715.6	7092.3	6192.0
47.5°	5519.1	5576.8	5774.3	5965.7	6200.4	6301.5	6533.8	6778.2	7346.3	7759.2	6707.2
50°	5721.3	5756.2	5957.2	6269.0	6568.7	6698.7	7005.7	7358.4	8020.4	8417.6	7159.8
52.5°	5980.1	5994.6	6154.6	6569.9	6964.8	7126.1	7532.9	7944.6	8610.3	8989.4	7518.4
55°	6285.8	6261.8	6386.9	6888.9	7417.4	7628.0	8065.0	8538.0	9273.5	9451.7	7779.7
57.5°	6588.0	6550.7	6650.6	7276.5	7975.9	8229.9	8739.1	9149.5	9865.7	9883.8	7962.6
60°	6908.2	6880.5	6999.6	7731.5	8660.8	8961.7	9432.4	9783.9	10438.7	10184.7	7991.5
62.5°	7236.8	7192.2	7362.0	8243.1	9432.4	9705.7	10161.9	10458.0	11000.8	10296.7	7713.5
65°	7555.8	7535.4	7797.7	8851.0	10311.1	10621.7	11064.7	11265.6	11451.1	10128.2	7023.7
67.5°	7895.2	7936.2	8355.1	9662.3	11457.1	11847.1	12325.0	12136.0	11579.9	9330.1	5915.1
70°	8412.9	8439.3	9086.9	10725.2	12934.1	13404.7	13635.8	12445.3	10958.7	7814.6	4446.6
72.5°	8635.6	8752.3	9740.5	11841.1	14612.0	14899.7	14076.4	11755.6	9129.1	5308.4	2336.4
73°	8586.1	8725.8	9770.7	12010.8	14743.3	15045.3	13982.5	11400.5	8486.2	4571.8	2003.0
75°	7971.1	8143.2	9379.4	11868.7	14488.1	14307.5	12473.0	9716.5	5734.5	2078.9	912.4
77.5°	6289.4	6338.9	7431.8	9584.1	11408.9	11074.3	9334.9	6072.8	2342.4	772.8	517.6
80°	3154.9	3336.8	4189.0	5490.2	7629.2	7519.7	5892.2	2872.1	976.2	453.8	343.0
82.5°	1517.9	1646.7	2040.3	2677.1	4215.4	4115.5	2917.8	1569.7	619.9	264.8	202.2
85°	977.4	1073.7	1298.8	1277.2	1733.3	1655.1	1310.8	1188.0	367.1	138.4	140.9
87.5°	645.2	706.6	847.4	677.7	630.8	570.6	579.0	669.3	72.2	52.9	19.3
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°	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8	3744.8
2.5°	3703.9	3688.2	3636.5	3585.9	3537.8	3492.0	3461.9	3422.2	3395.7	3402.9	3413.8
5°	3611.2	3576.3	3484.8	3395.7	3311.5	3211.6	3130.9	3065.9	3016.5	2998.5	2994.9
7.5°	3513.7	3454.7	3323.5	3170.6	3027.4	2903.4	2760.2	2689.1	2606.1	2577.2	2567.5
10°	3454.7	3375.3	3191.0	2978.0	2762.6	2556.7	2401.5	2275.0	2160.7	2139.0	2128.2
12.5°	3437.8	3333.2	3085.2	2810.7	2524.2	2271.4	2041.5	1875.4	1764.6	1739.4	1702.1
15°	3428.2	3298.2	2986.4	2642.2	2278.7	1970.5	1728.6	1534.8	1433.7	1366.3	1367.4
17.5°	3419.8	3258.5	2875.7	2458.0	2066.8	1711.7	1444.5	1269.9	1177.2	1141.1	1137.5
20°	3407.8	3211.6	2748.1	2264.2	1824.9	1475.8	1233.9	1103.8	1041.2	1011.2	1009.9
22.5°	3402.9	3165.8	2622.9	2066.8	1610.6	1294.0	1094.2	1002.7	963.0	942.5	942.5
25°	3415.0	3133.3	2491.7	1879.0	1420.4	1138.7	997.9	935.3	912.4	901.6	897.9
27.5°	3452.2	3118.8	2361.7	1691.2	1245.8	1032.8	932.9	889.6	872.7	864.3	865.4
30°	3523.3	3117.7	2234.1	1505.9	1115.9	952.1	881.1	851.0	837.8	833.0	831.8
32.5°	3637.7	3144.1	2108.9	1353.0	1006.3	884.7	833.0	811.3	805.3	801.7	800.5
35°	3831.5	3218.8	1984.9	1213.3	922.1	824.6	787.2	776.4	768.0	771.6	772.8
37.5°	4092.7	3347.6	1867.0	1103.8	858.2	780.0	748.7	739.1	734.3	737.9	741.5
40°	4443.0	3533.0	1768.2	1015.9	812.5	742.7	715.0	706.6	701.8	707.8	709.0
42.5°	4829.4	3747.2	1686.4	947.4	775.2	711.4	684.9	675.3	671.7	675.3	676.5
45°	5226.6	3996.4	1644.3	897.9	743.9	688.6	660.9	650.0	641.6	639.2	642.8
47.5°	5617.8	4213.0	1643.0	867.9	718.6	668.1	638.0	625.9	615.1	609.1	607.8
50°	5936.8	4385.2	1671.9	854.6	696.9	645.2	615.1	603.1	588.7	576.6	579.0
52.5°	6177.6	4497.1	1685.3	848.6	684.9	621.2	591.0	580.2	563.4	547.7	547.7
55°	6332.8	4523.6	1652.7	842.6	675.3	595.9	563.4	553.7	536.8	521.2	521.2
57.5°	6385.8	4441.7	1535.9	828.2	665.6	574.2	535.7	527.2	514.0	498.4	496.0
60°	6263.0	4164.9	1331.3	784.8	646.4	551.3	505.6	502.0	497.1	483.9	482.7
62.5°	5789.9	3577.4	1108.6	728.3	613.9	527.2	477.9	483.9	487.5	480.3	479.1
65°	5002.7	2904.6	947.4	650.0	570.6	493.5	447.8	463.5	473.1	473.1	470.7
67.5°	4057.7	2230.5	798.0	582.6	516.4	447.8	414.1	426.1	433.3	431.0	436.9
70°	2884.1	1510.6	650.0	505.6	447.8	396.0	370.8	370.8	365.9	363.5	363.5
72.5°	1398.8	863.1	527.2	422.5	381.6	338.3	317.8	309.4	299.7	298.6	292.5
73°	1168.8	774.0	503.2	406.8	365.9	329.8	306.9	293.7	287.7	282.9	281.6
75°	711.4	587.4	420.1	343.0	311.8	284.1	263.6	251.6	245.5	241.9	240.8
77.5°	468.2	438.2	326.2	262.4	238.3	221.5	213.1	201.0	197.4	192.6	192.6
80°	349.1	334.7	233.5	185.3	170.9	156.5	154.1	151.7	142.0	136.0	133.6
82.5°	225.1	238.3	158.9	123.9	108.4	96.3	97.5	101.1	91.5	83.1	80.6
85°	160.1	172.1	96.3	56.6	45.7	39.7	44.6	39.7	41.0	32.5	26.5
87.5°	26.5	45.7	16.8	7.2	3.6	2.4	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)