

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: P454056

Luminaire Tested: **GALN-SA5A-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
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-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16687 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

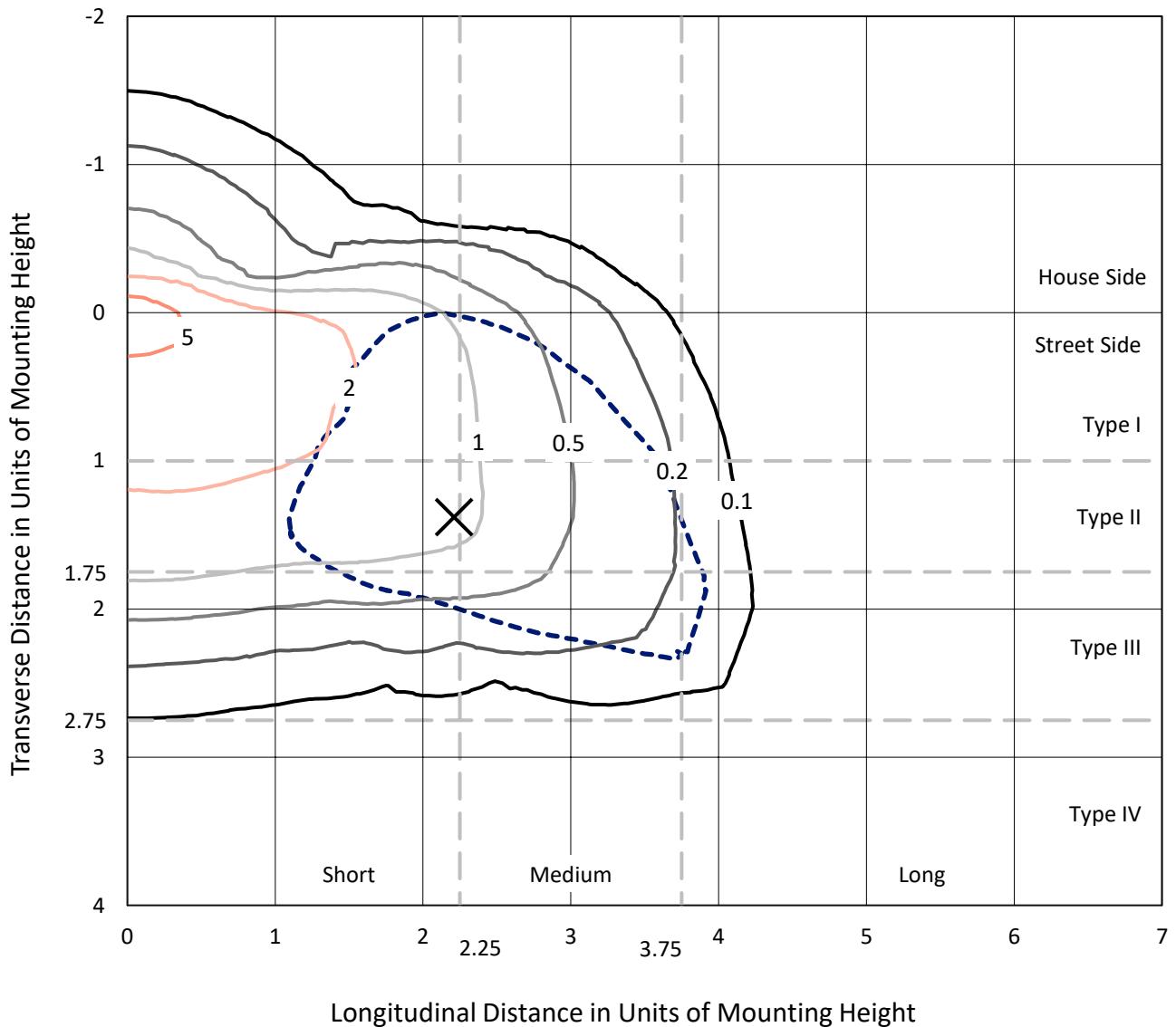
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

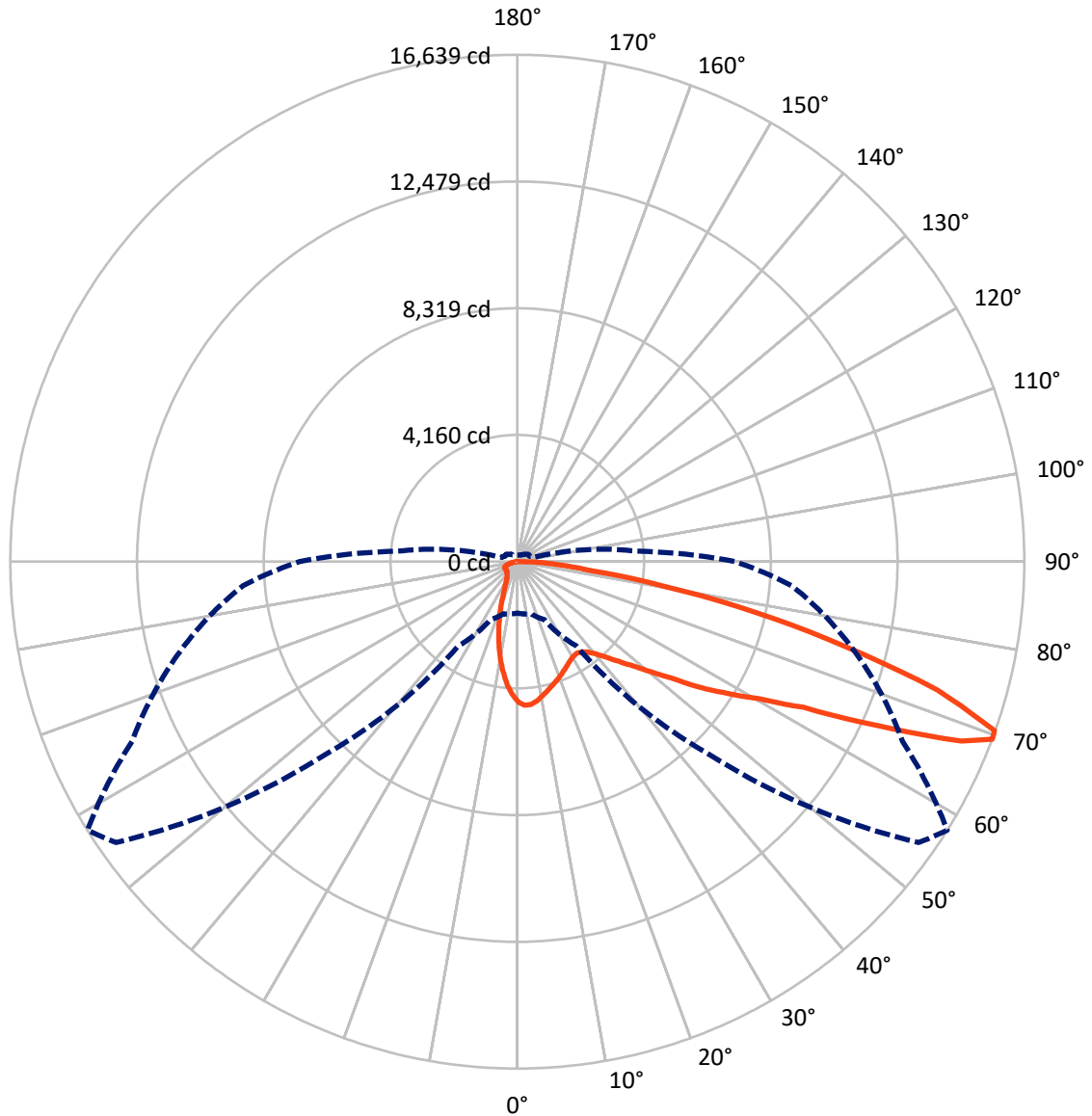
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2445.5	0.0	2445.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14241.5	0.0	14241.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	16687.0	0.0	16687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.6	2.3
10°-20°	859.9	5.2
20°-30°	1111.0	6.7
30°-40°	1443.0	8.6
40°-50°	2097.9	12.6
50°-60°	3347.6	20.1
60°-70°	4472.0	26.8
70°-80°	2577.9	15.4
80°-90°	386.1	2.3
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°	16687.0	100.0
0°-180°	16687.0	100.0

Coefficient of Utilization



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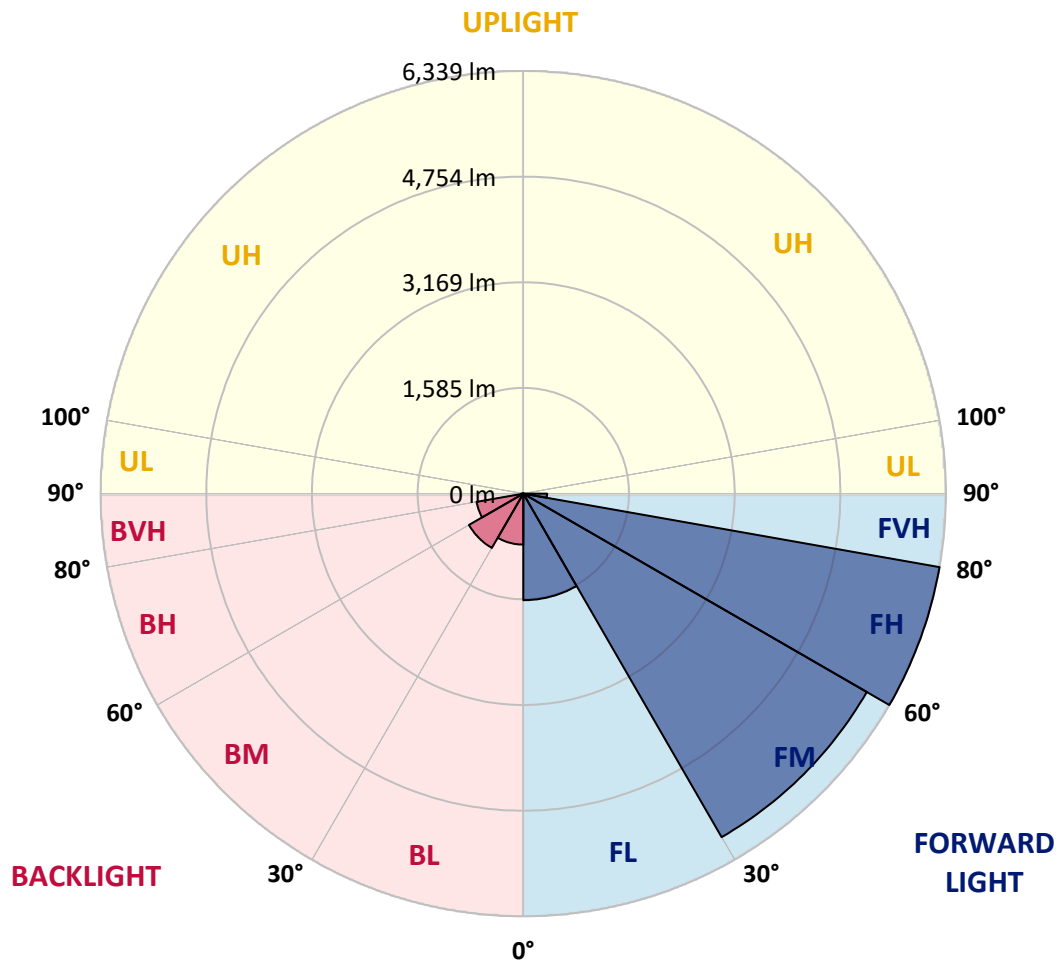
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1598.2	9.6			
FM (30°-60°)	5948.1	35.6			
FH (60°-80°)	6338.8	38.0			G3/7500
FVH (80°-90°)	356.5	2.1			G3/500
BL (0°-30°)	764.4	4.6	B2/1000		
BM (30°-60°)	940.4	5.6	B1/1000		
BH (60°-80°)	711.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	29.6	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3
2.5°	4782.5	4795.6	4791.9	4787.2	4779.8	4759.3	4725.8	4720.2	4698.8	4653.2	4596.4
5°	4709.0	4720.2	4721.1	4727.6	4736.9	4733.2	4709.0	4706.2	4674.6	4613.2	4518.2
7.5°	4456.8	4471.7	4504.3	4540.6	4573.2	4603.9	4611.3	4616.0	4596.4	4525.7	4399.1
10°	4173.0	4187.9	4202.8	4256.7	4336.8	4413.1	4476.4	4484.7	4489.4	4424.3	4269.8
12.5°	3858.4	3889.1	3920.8	4000.8	4107.8	4227.9	4339.6	4357.2	4388.9	4339.6	4158.1
15°	3591.3	3623.0	3668.6	3740.2	3869.6	4042.7	4200.0	4228.8	4291.2	4266.0	4053.9
17.5°	3406.1	3417.3	3448.9	3530.8	3670.4	3852.8	4063.2	4120.9	4220.4	4213.9	3964.5
20°	3260.0	3274.0	3293.5	3343.8	3489.0	3681.6	3935.7	4010.1	4145.1	4167.4	3876.1
22.5°	3198.6	3208.8	3206.0	3233.0	3331.7	3525.3	3806.3	3894.7	4078.1	4135.8	3794.2
25°	3202.3	3211.6	3197.7	3191.2	3249.8	3387.5	3671.4	3784.0	4024.1	4114.3	3719.8
27.5°	3264.7	3271.2	3245.1	3219.1	3223.7	3301.9	3559.7	3684.4	3978.5	4123.7	3657.4
30°	3348.4	3360.5	3343.8	3312.1	3277.7	3281.4	3488.0	3610.9	3957.1	4156.2	3627.6
32.5°	3456.4	3467.6	3460.1	3435.0	3390.3	3341.0	3470.3	3583.9	3958.9	4222.3	3621.1
35°	3569.9	3592.3	3604.4	3602.5	3566.2	3480.6	3540.1	3634.1	4003.6	4333.0	3659.3
37.5°	3698.4	3717.0	3769.1	3802.6	3769.1	3669.5	3697.4	3762.6	4102.3	4493.1	3743.0
40°	3823.1	3851.0	3927.3	4031.5	4018.5	3931.0	3937.5	3980.3	4276.3	4731.4	3906.8
42.5°	3953.3	3986.9	4119.9	4274.4	4305.1	4237.2	4254.9	4293.0	4523.8	5061.7	4187.9
45°	4120.9	4160.9	4324.7	4517.3	4638.3	4596.4	4646.7	4665.3	4855.1	5491.7	4558.3
47.5°	4336.8	4383.3	4585.3	4825.4	4996.6	5034.8	5122.2	5111.1	5265.5	6000.8	5038.5
50°	4700.7	4726.7	4917.5	5162.2	5397.7	5569.9	5664.8	5682.5	5774.6	6495.9	5575.5
52.5°	5133.4	5156.7	5294.4	5508.4	5803.5	6168.3	6402.8	6345.1	6367.4	7098.9	6203.6
55°	5620.1	5659.2	5746.7	5889.1	6271.6	6808.5	7279.4	7293.4	7045.9	7675.9	6805.8
57.5°	5997.0	6063.1	6212.9	6415.8	6900.7	7520.5	8153.3	8162.6	7846.2	8292.0	7470.2
60°	5807.2	5885.4	6227.8	6722.0	7726.2	8762.9	9197.5	9144.4	8625.2	8993.7	8280.8
62.5°	4988.2	5002.2	5500.1	6272.5	7980.2	10425.0	10751.7	10527.4	9664.7	9883.4	9104.4
65°	3228.4	3319.6	3714.2	4796.5	7145.4	11347.3	13474.7	12956.3	11122.1	10893.1	9794.0
67.5°	2038.1	2014.8	2178.6	2738.9	4914.7	10534.8	15798.5	15716.6	13028.0	11530.6	9629.3
69°	1690.0	1716.1	1771.9	2099.5	3381.9	8994.6	16073.0	16638.9	13952.1	11480.3	9030.9
70°	1532.8	1544.9	1603.5	1861.3	2609.5	7533.5	15622.6	16613.7	14315.1	11270.0	8597.2
72.5°	1216.3	1215.4	1315.9	1548.6	1950.6	4300.5	12827.9	14424.0	13909.3	10291.0	7103.6
75°	924.1	939.0	1049.8	1310.3	1797.1	2349.9	8951.8	11108.1	11109.0	8128.2	4432.6
77.5°	666.3	675.6	805.0	1100.0	1692.8	1905.0	5962.6	7967.2	7489.8	3724.4	1393.2
80°	436.5	442.1	540.7	871.1	1526.2	1797.1	3535.5	4876.5	3532.7	988.3	460.7
82.5°	239.2	267.1	330.4	564.0	1224.7	1660.3	2148.8	2468.1	1325.2	440.2	240.1
85°	120.1	127.5	186.1	329.4	800.3	1373.6	1496.5	1415.5	684.0	218.7	124.7
87.5°	35.4	44.7	77.2	127.5	324.8	715.7	832.9	747.3	263.4	79.1	26.1
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°	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3	4611.3
2.5°	4573.2	4556.4	4482.0	4414.9	4353.5	4288.4	4233.5	4185.1	4189.7	4190.7	4141.3
5°	4468.9	4430.8	4289.3	4157.2	4045.5	3904.0	3783.0	3704.9	3665.8	3613.7	3632.3
7.5°	4327.5	4253.9	4057.6	3837.9	3632.3	3448.9	3249.8	3113.0	3025.5	2940.8	2952.0
10°	4181.4	4063.2	3777.5	3487.1	3220.9	2927.8	2673.7	2456.0	2294.0	2233.5	2193.5
12.5°	4031.5	3876.1	3513.2	3126.9	2759.3	2408.5	2048.3	1814.7	1636.1	1541.1	1553.2
15°	3894.7	3705.8	3237.7	2766.8	2289.4	1871.5	1512.3	1289.9	1165.2	1139.1	1154.0
17.5°	3768.2	3520.6	2979.9	2416.9	1859.4	1403.4	1136.3	1010.7	960.4	946.5	945.5
20°	3637.9	3363.3	2690.5	2042.7	1449.0	1087.9	932.5	873.9	864.6	870.1	871.1
22.5°	3505.7	3168.8	2392.7	1671.4	1154.0	889.7	815.2	799.4	806.9	819.9	821.8
25°	3383.8	2997.6	2106.0	1345.7	921.3	781.7	745.4	745.4	762.2	781.7	782.7
27.5°	3283.3	2831.9	1820.3	1068.4	771.5	703.6	691.5	698.0	721.2	736.1	737.1
30°	3200.5	2677.4	1550.4	856.2	678.4	641.2	638.4	649.6	666.3	680.3	681.2
32.5°	3138.1	2541.6	1298.2	719.4	614.2	593.7	592.8	601.2	610.5	614.2	617.9
35°	3113.9	2429.0	1067.4	632.8	571.4	558.4	558.4	557.5	561.2	563.0	564.9
37.5°	3133.5	2342.4	888.8	577.0	539.8	530.5	524.9	519.3	517.4	517.4	518.4
40°	3216.3	2296.8	755.7	540.7	517.4	503.5	493.2	486.7	480.2	482.1	483.9
42.5°	3392.2	2305.2	665.4	516.5	497.9	478.3	463.5	456.0	451.4	456.9	456.0
45°	3672.3	2388.9	607.7	499.8	478.3	453.2	439.3	431.8	431.8	440.2	443.0
47.5°	4064.1	2549.0	577.0	486.7	463.5	433.7	419.7	414.1	416.0	430.0	430.9
50°	4542.4	2827.3	571.4	480.2	456.0	419.7	403.9	398.3	403.0	417.9	419.7
52.5°	5070.1	3185.6	598.4	481.1	449.5	411.3	390.9	382.5	387.1	399.2	403.0
55°	5695.5	3634.1	668.2	484.9	440.2	406.7	381.6	362.9	368.5	376.9	377.8
57.5°	6333.9	4200.0	791.0	485.8	432.7	398.3	365.7	341.5	341.5	347.1	349.9
60°	7113.8	4816.1	953.0	486.7	433.7	386.2	344.3	317.3	313.6	316.4	317.3
62.5°	7888.1	5331.6	980.0	483.9	443.0	374.1	321.1	293.2	286.6	285.7	283.8
65°	8229.6	5235.8	803.1	470.9	453.2	366.7	302.5	269.9	258.7	255.0	255.0
67.5°	7673.1	4428.9	604.0	453.2	446.7	359.2	284.8	250.3	237.3	229.9	229.9
69°	7150.1	3939.4	542.6	441.1	430.0	347.1	273.6	240.1	224.3	215.9	213.1
70°	6746.2	3602.5	516.5	430.9	414.1	333.2	265.2	232.7	215.0	205.7	203.8
72.5°	5383.7	2826.3	452.3	391.8	352.7	280.1	235.5	209.4	192.6	182.4	179.6
75°	3102.7	1531.8	375.0	340.6	283.8	217.8	199.2	182.4	169.4	160.1	157.3
77.5°	954.8	591.9	271.7	269.0	208.5	168.4	159.1	152.6	143.3	133.1	131.2
80°	402.0	301.5	184.3	181.5	138.7	117.3	114.5	113.5	109.8	101.4	98.6
82.5°	220.6	170.3	128.4	111.7	83.8	67.9	70.7	71.7	68.9	60.5	54.9
85°	108.0	93.1	62.4	50.3	38.2	24.2	23.3	27.9	26.1	18.6	20.5
87.5°	21.4	26.1	16.8	7.4	3.7	0.0	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)