

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: P456968

Luminaire Tested: **GALN-SA8B-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30722 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

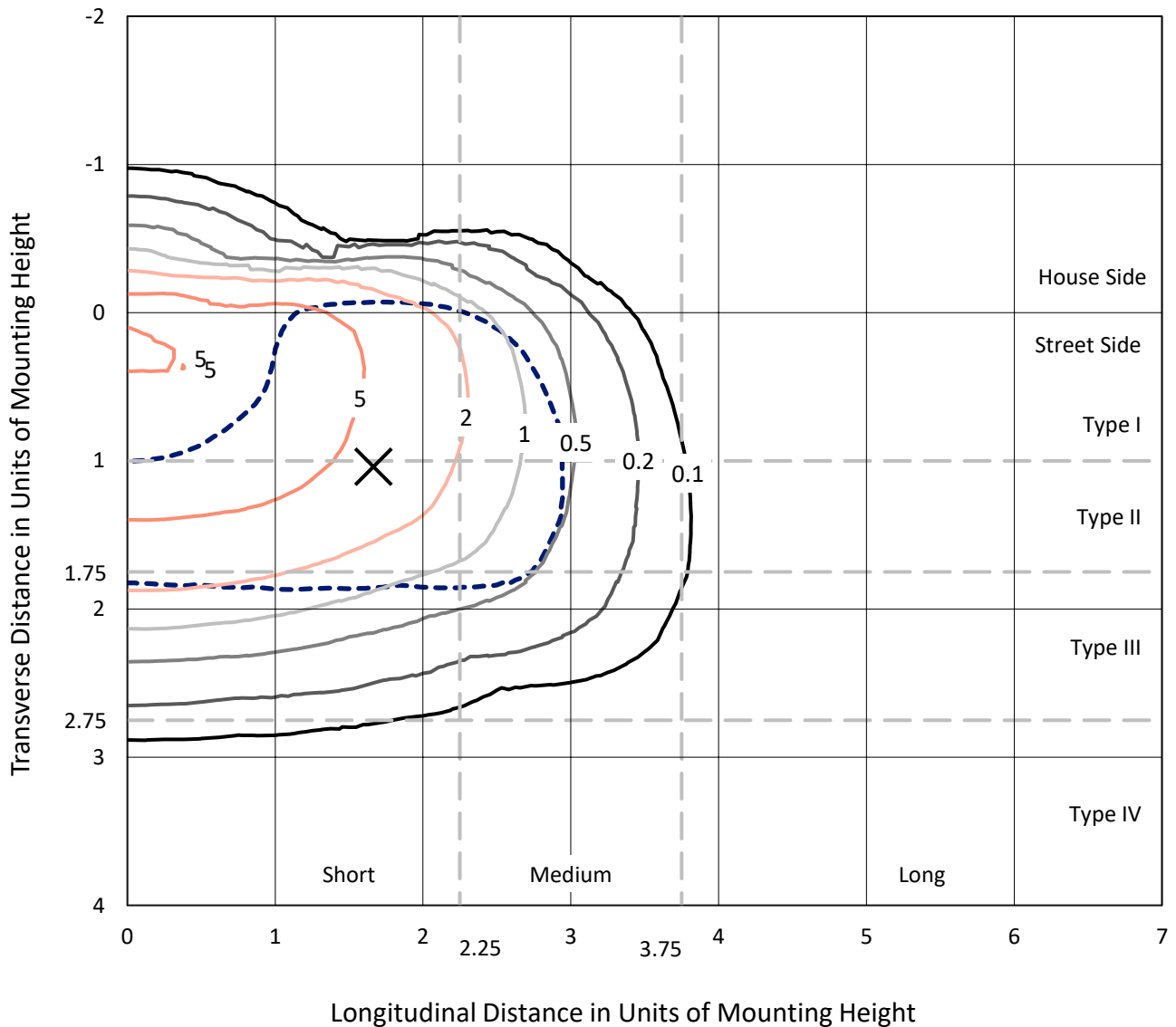
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

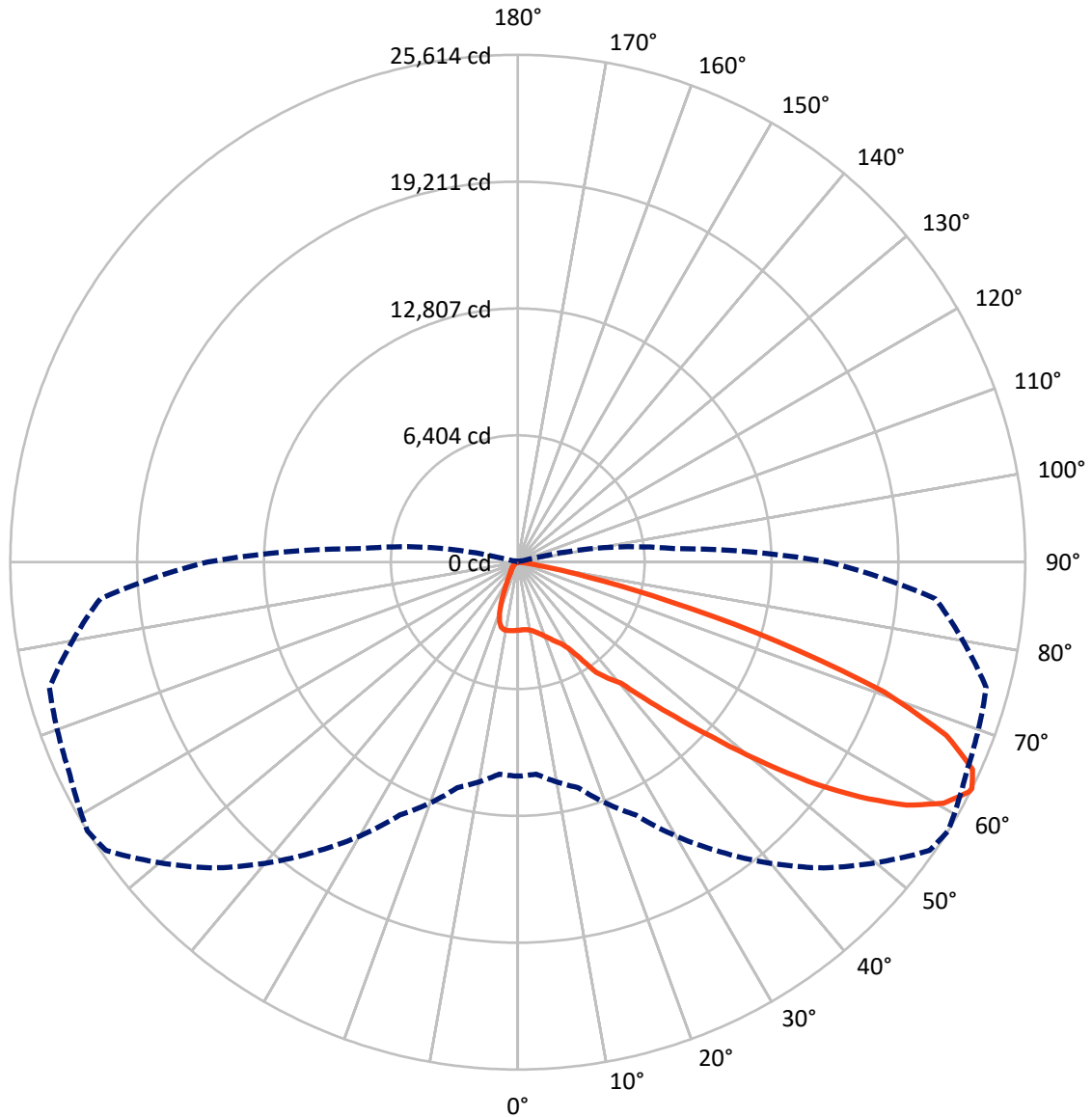
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3181.1	0.0	3181.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	27540.9	0.0	27540.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	30722.0	0.0	30722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.0	1.0
10°-20°	877.0	2.9
20°-30°	1522.0	5.0
30°-40°	2796.8	9.1
40°-50°	5265.0	17.1
50°-60°	9005.4	29.3
60°-70°	8622.6	28.1
70°-80°	2198.8	7.2
80°-90°	112.4	0.4
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°	30722.0	100.0
0°-180°	30722.0	100.0

Coefficient of Utilization



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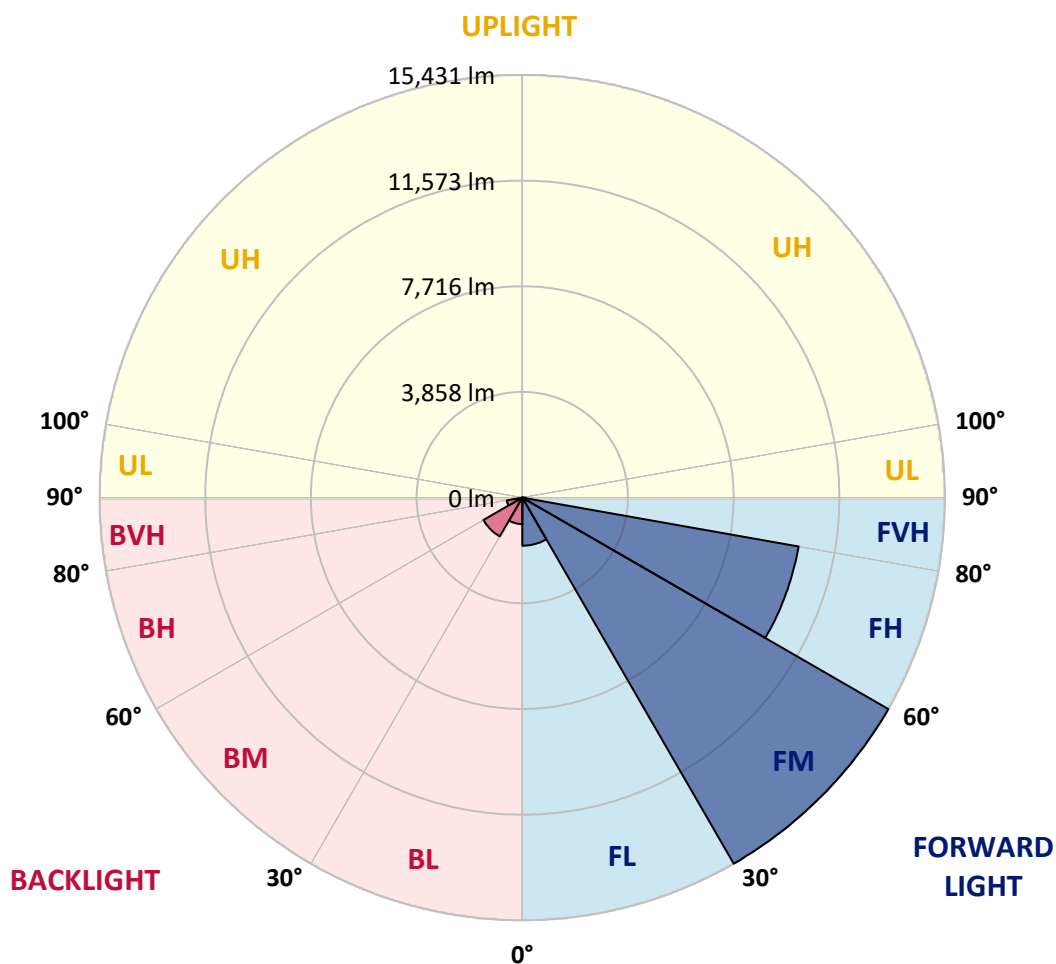
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1756.2	5.7			
FM (30°-60°)	15431.0	50.2			
FH (60°-80°)	10245.6	33.3			G4/12000
FVH (80°-90°)	108.1	0.4			G2/225
BL (0°-30°)	964.7	3.1	B2/1000		
BM (30°-60°)	1636.2	5.3	B2/2500		
BH (60°-80°)	575.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4
2.5°	3353.9	3365.4	3377.0	3381.6	3397.8	3414.0	3425.6	3423.3	3441.8	3451.0	3451.0
5°	3219.7	3219.7	3249.8	3277.5	3323.8	3370.1	3414.0	3423.3	3458.0	3490.3	3501.9
7.5°	3106.4	3113.3	3136.4	3187.3	3249.8	3330.7	3418.6	3439.4	3499.6	3571.3	3601.4
10°	3053.2	3057.8	3087.9	3141.1	3219.7	3330.7	3453.3	3492.6	3585.2	3698.5	3740.1
12.5°	3041.6	3048.5	3078.6	3138.8	3229.0	3363.1	3529.7	3571.3	3705.4	3851.2	3913.6
15°	3062.4	3067.1	3097.1	3161.9	3261.3	3420.9	3631.4	3689.3	3848.8	4017.7	4098.7
17.5°	3136.4	3131.8	3152.6	3205.8	3316.9	3492.6	3754.0	3823.4	4010.8	4242.1	4295.3
20°	3451.0	3420.9	3402.4	3356.2	3400.1	3594.4	3902.0	4003.8	4235.1	4471.0	4508.1
22.5°	4128.7	4061.6	3929.8	3749.4	3610.6	3733.2	4080.2	4198.1	4496.5	4727.8	4727.8
25°	4991.5	4905.9	4774.1	4380.8	4040.8	3962.2	4281.4	4429.4	4781.0	5014.6	4938.3
27.5°	6071.7	6004.6	5747.8	5289.9	4769.4	4362.3	4515.0	4651.5	5033.1	5315.3	5155.7
30°	6950.6	6918.2	6707.7	6298.3	5724.7	5130.3	4949.8	5040.1	5368.5	5694.6	5530.4
32.5°	7693.1	7693.1	7478.0	7096.3	6559.7	6032.3	5687.7	5752.5	6067.0	6444.0	6138.7
35°	8509.6	8481.8	8308.3	7945.2	7343.8	6878.9	6737.8	6825.7	7110.2	7390.1	6638.3
37.5°	9367.7	9358.4	9178.0	8826.4	8336.1	7750.9	7420.1	7443.3	7589.0	7760.2	7223.5
40°	10299.8	10313.7	10077.8	9860.4	9397.8	8798.7	8164.9	8019.2	8155.7	8639.1	8303.7
42.5°	11400.8	11368.4	11266.7	10970.6	10598.2	10239.7	9478.7	9425.5	9545.8	10063.9	9700.8
45°	12679.9	12726.2	12550.4	12386.2	12136.4	11838.0	11201.9	11109.4	11241.2	12046.2	11530.4
47.5°	13961.3	13917.4	14030.7	14000.7	14134.8	13912.8	13350.7	13161.0	13477.9	14241.2	13482.5
50°	14937.4	14986.0	15221.9	15566.6	16142.5	16267.4	15728.5	15663.7	15804.8	16295.2	15228.9
52.5°	15571.2	15733.1	16103.2	16989.1	18027.6	18834.8	18425.4	18390.7	18332.9	18464.8	16898.9
55°	15985.2	16149.4	16632.9	17937.4	19725.4	21036.8	21057.6	20909.6	20528.0	20433.1	18460.1
57.5°	15730.8	15763.2	16452.4	18196.5	20666.7	22607.4	23287.4	23139.4	22433.9	22075.4	19838.7
60°	14139.4	14206.5	15166.4	17215.7	20257.3	23120.9	24765.4	24698.3	23925.8	23521.0	20911.9
62.5°	11319.9	11514.2	12501.8	14787.1	18353.7	22255.8	25364.5	25554.1	24952.8	24395.3	21249.6
63°	10801.8	10739.3	11782.5	14079.3	17849.5	21827.9	25373.7	25614.3	24999.0	24478.6	21157.1
65°	7996.1	8183.4	8861.1	11102.5	14854.2	19836.4	24802.4	25228.0	24827.9	24110.8	20132.4
67.5°	4489.6	4480.3	5229.7	7265.2	10397.0	15559.6	22427.0	23326.7	23243.4	21635.9	16688.4
70°	2197.4	2232.1	2539.7	3765.6	6030.0	10734.7	18635.9	19607.4	19637.5	16993.7	11539.6
72.5°	994.6	1010.8	1230.5	1834.2	3099.4	5715.4	12841.8	13769.4	13598.2	10829.5	6372.3
75°	525.1	559.7	677.7	922.9	1494.2	2357.0	6985.3	7882.7	7524.2	4947.5	2345.4
77.5°	388.6	400.2	460.3	587.5	800.3	918.3	3013.9	3585.2	3358.5	1790.3	777.2
80°	284.5	293.8	342.3	416.3	504.2	467.2	1135.7	1302.2	1168.1	608.3	238.2
82.5°	173.5	175.8	249.8	309.9	316.9	261.4	374.7	402.5	421.0	342.3	129.5
85°	62.5	78.6	168.8	224.4	187.4	131.8	157.3	173.5	189.7	217.4	76.3
87.5°	6.9	9.3	81.0	108.7	53.2	48.6	57.8	64.8	69.4	81.0	37.0
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°	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4	3439.4
2.5°	3460.3	3469.5	3462.6	3451.0	3448.7	3441.8	3427.9	3427.9	3427.9	3432.5	3427.9
5°	3511.2	3518.1	3501.9	3478.8	3453.3	3420.9	3386.2	3365.4	3363.1	3358.5	3346.9
7.5°	3608.3	3617.5	3580.5	3525.0	3455.6	3377.0	3303.0	3233.6	3201.2	3175.8	3175.8
10°	3749.4	3758.6	3684.6	3585.2	3446.4	3286.8	3111.0	2951.4	2826.5	2768.7	2754.8
12.5°	3918.2	3922.9	3800.3	3626.8	3397.8	3090.2	2715.5	2366.2	2123.3	2012.3	2000.8
15°	4103.3	4070.9	3909.0	3643.0	3259.0	2685.4	2037.8	1609.9	1357.7	1283.7	1311.5
17.5°	4290.6	4230.5	3992.3	3617.5	2946.8	2037.8	1369.3	1098.7	1020.0	999.2	999.2
20°	4466.4	4383.2	4052.4	3506.5	2405.5	1404.0	1015.4	950.6	936.8	922.9	925.2
22.5°	4642.2	4515.0	4105.6	3259.0	1792.6	1003.8	909.0	888.2	869.7	851.2	848.9
25°	4813.4	4637.6	4126.4	2801.1	1221.3	862.8	830.4	802.6	765.6	744.8	740.2
27.5°	4991.5	4785.6	4112.5	2222.8	890.5	772.5	740.2	700.8	656.9	619.9	619.9
30°	5333.8	5067.8	4064.0	1598.3	749.4	680.0	638.4	575.9	527.4	490.4	488.0
32.5°	5801.0	5435.6	3897.4	1124.1	666.1	599.1	536.6	467.2	416.3	388.6	388.6
35°	6217.4	5805.7	3585.2	828.1	599.1	520.4	444.1	377.0	337.7	319.2	312.3
37.5°	6851.1	6346.9	3154.9	673.1	534.3	451.0	372.4	309.9	277.6	263.7	263.7
40°	7801.8	7008.4	2627.6	589.8	471.9	384.0	309.9	261.4	235.9	219.7	219.7
42.5°	8981.4	7818.0	2093.3	529.7	414.0	330.8	259.1	222.0	198.9	187.4	185.0
45°	10466.4	8671.5	1612.2	474.2	367.8	282.2	219.7	187.4	164.2	157.3	159.6
47.5°	12016.1	9423.2	1249.0	425.6	319.2	238.2	187.4	161.9	145.7	136.5	136.5
50°	13339.1	9941.3	948.3	370.1	282.2	201.2	164.2	145.7	131.8	127.2	124.9
52.5°	14444.8	10091.7	726.3	321.5	247.5	173.5	145.7	131.8	120.3	113.3	113.3
55°	15386.1	9959.8	569.0	270.6	208.2	150.3	129.5	118.0	104.1	97.1	94.8
57.5°	15936.6	9536.5	434.8	224.4	168.8	124.9	113.3	99.5	83.3	71.7	71.7
60°	16214.2	8921.3	333.1	185.0	129.5	99.5	92.5	74.0	57.8	48.6	46.3
62.5°	15881.1	8104.8	252.1	145.7	97.1	74.0	62.5	53.2	37.0	27.8	27.8
63°	15675.3	7868.9	242.9	138.8	90.2	69.4	57.8	48.6	32.4	25.4	23.1
65°	14289.8	6839.6	198.9	111.0	71.7	48.6	39.3	34.7	23.1	11.6	9.3
67.5°	11347.6	5232.0	157.3	83.3	50.9	34.7	23.1	20.8	6.9	0.0	0.0
70°	7672.3	3379.3	122.6	60.1	34.7	20.8	11.6	9.3	2.3	0.0	0.0
72.5°	4001.5	1732.4	94.8	43.9	20.8	13.9	6.9	2.3	0.0	0.0	0.0
75°	1415.6	589.8	69.4	27.8	13.9	6.9	2.3	0.0	0.0	0.0	0.0
77.5°	427.9	219.7	43.9	20.8	9.3	4.6	0.0	0.0	0.0	0.0	0.0
80°	150.3	81.0	25.4	13.9	6.9	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	74.0	39.3	16.2	11.6	6.9	2.3	0.0	0.0	0.0	0.0	0.0
85°	41.6	25.4	13.9	11.6	6.9	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	30.1	18.5	13.9	11.6	9.3	4.6	2.3	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)