

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: P528673

Luminaire Tested: **GALN-SA3D-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12557 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

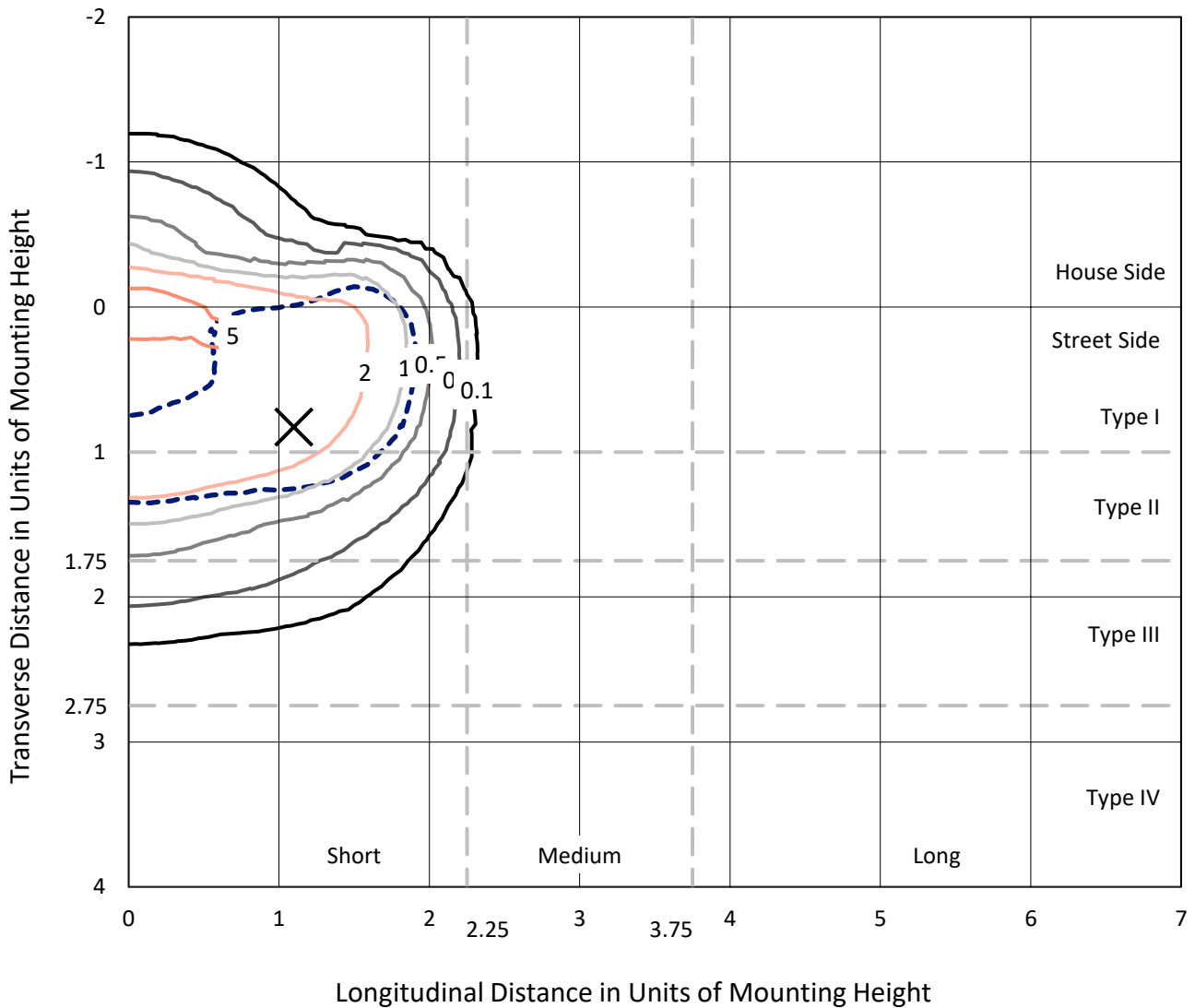
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528673
 CATALOG NUMBER: GALN-SA3D-735-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

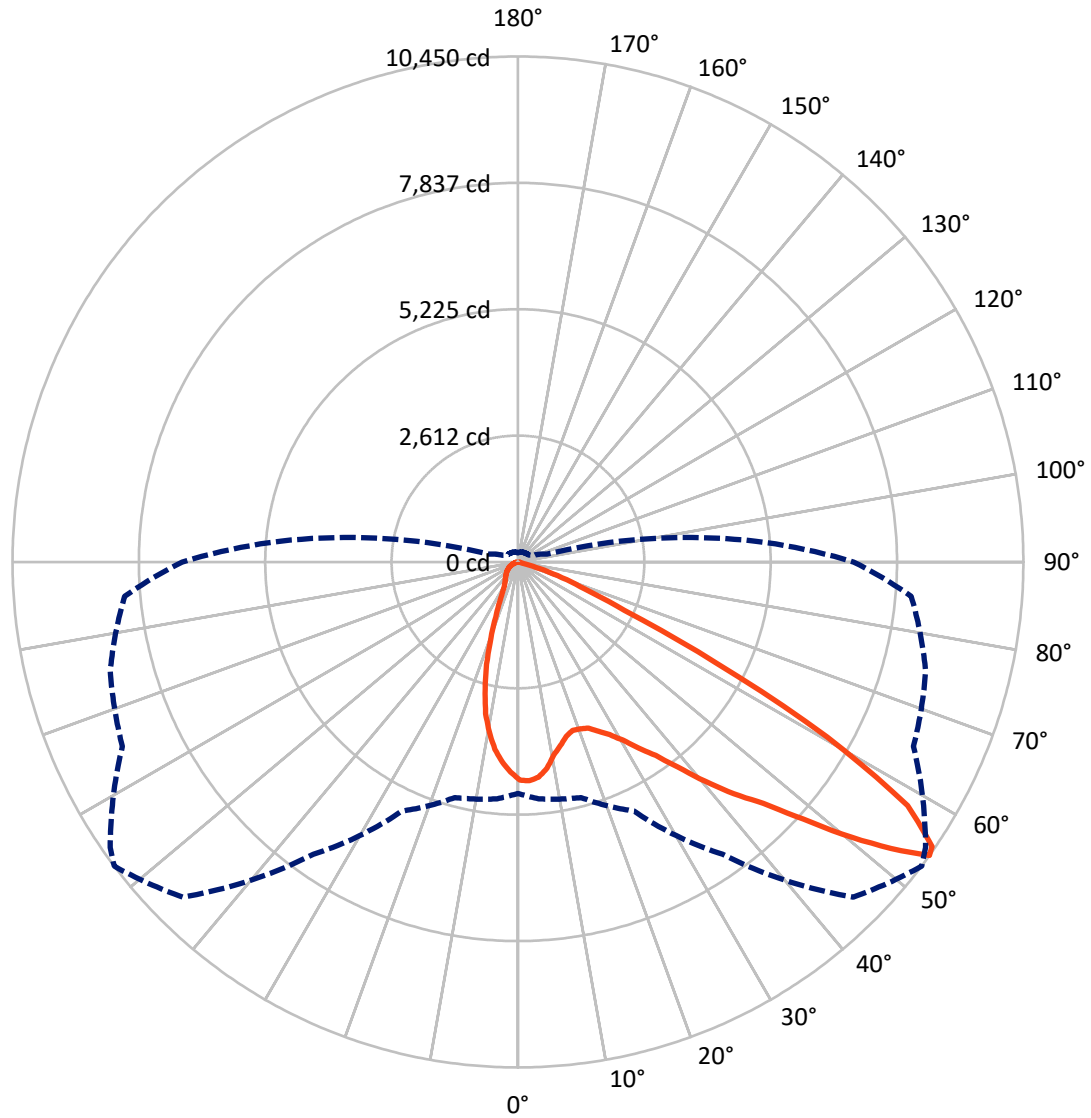
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

REPORT NUMBER: P528673
CATALOG NUMBER: GALN-SA3D-735-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P528673
 CATALOG NUMBER: GALN-SA3D-735-U-SL2-GRSBK

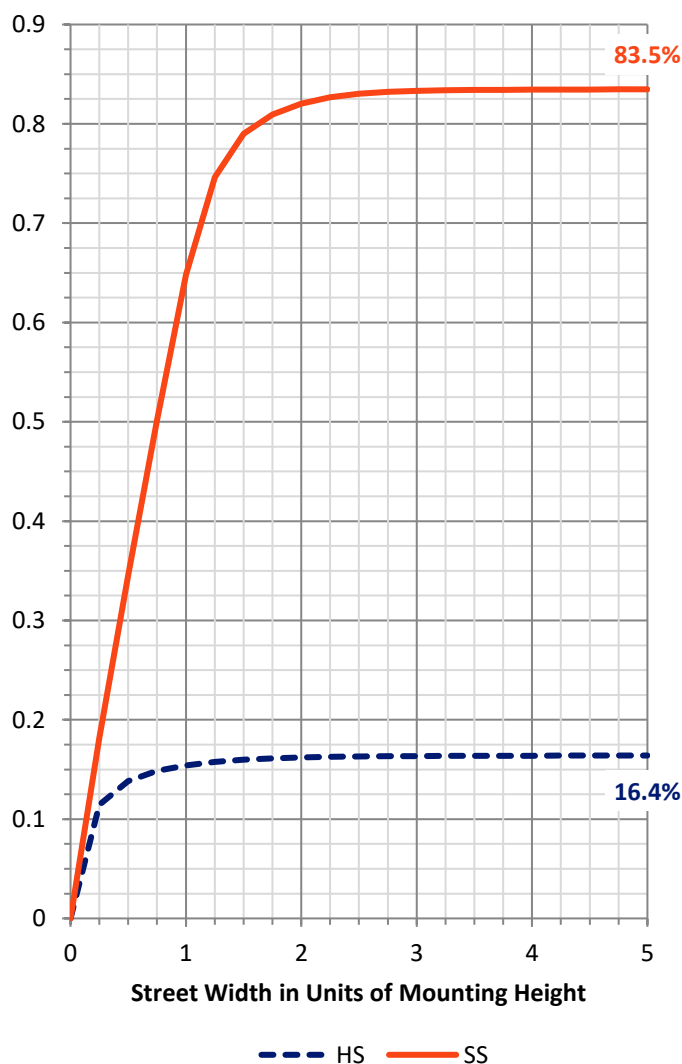
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2077.6	0.0	2077.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10479.4	0.0	10479.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	12557.0	0.0	12557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	3.1
10°-20°	887.2	7.1
20°-30°	1260.9	10.0
30°-40°	1945.9	15.5
40°-50°	3051.0	24.3
50°-60°	3544.2	28.2
60°-70°	1339.2	10.7
70°-80°	127.3	1.0
80°-90°	14.3	0.1
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°	12557.0	100.0
0°-180°	12557.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528673

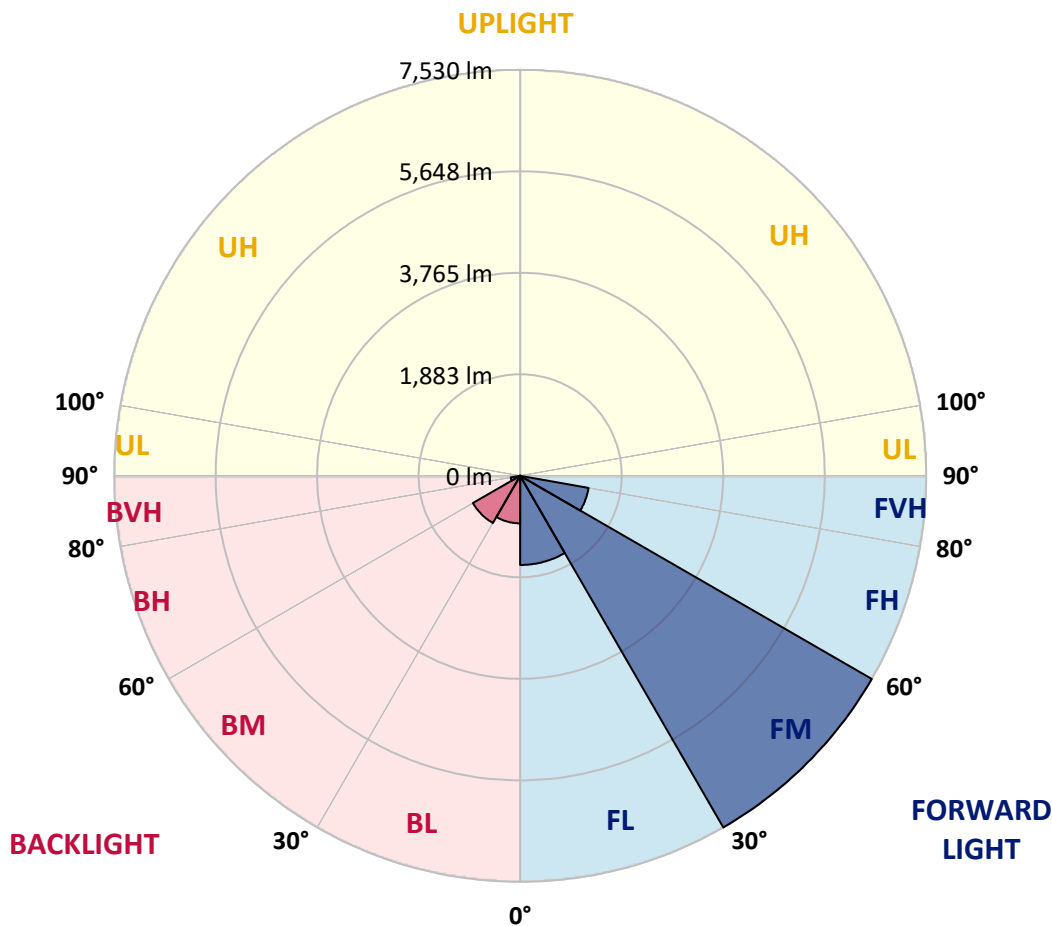
CATALOG NUMBER: GALN-SA3D-735-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1653.4	13.2			
FM (30°-60°)	7530.0	60.0			
FH (60°-80°)	1288.5	10.3			G1/1800
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	881.6	7.0	B2/1000		
BM (30°-60°)	1011.0	8.1	B2/2500		
BH (60°-80°)	178.0	1.4	B1/500		G1/500
BVH (80°-90°)	6.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P528673

CATALOG NUMBER: GALN-SA3D-735-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3
2.5°	4486.9	4447.1	4486.9	4491.5	4519.6	4545.4	4529.0	4566.4	4545.4	4522.0	4514.9
5°	4124.3	4178.1	4180.4	4264.6	4245.9	4400.3	4468.2	4449.4	4564.1	4557.0	4540.7
7.5°	3799.1	3778.0	3806.1	3904.4	4028.4	4206.1	4304.4	4302.1	4465.8	4582.8	4571.1
10°	3497.3	3495.0	3553.5	3630.7	3735.9	3923.1	4058.8	4126.6	4381.6	4559.4	4585.1
12.5°	3293.8	3284.4	3347.6	3410.8	3576.9	3721.9	3895.0	3927.8	4220.2	4477.5	4519.6
15°	3160.5	3181.5	3186.2	3307.8	3413.1	3604.9	3740.6	3808.5	4145.3	4412.0	4573.4
17.5°	3137.1	3165.1	3167.5	3268.1	3380.4	3541.8	3661.1	3752.3	4082.2	4444.8	4575.8
20°	3183.9	3167.5	3181.5	3244.7	3354.6	3509.0	3682.1	3712.5	4061.1	4461.1	4601.5
22.5°	3317.2	3312.5	3277.4	3328.9	3406.1	3567.5	3731.3	3778.0	4121.9	4545.4	4622.6
25°	3464.6	3490.3	3457.6	3450.5	3504.3	3663.4	3881.0	3941.8	4325.5	4697.4	4688.1
27.5°	3740.6	3714.9	3714.9	3682.1	3668.1	3745.3	4042.4	4143.0	4552.4	4893.9	4762.9
30°	4005.0	4033.0	4012.0	4023.7	3930.1	3923.1	4271.6	4395.6	4954.7	5193.4	4922.0
32.5°	4423.7	4386.3	4421.4	4391.0	4267.0	4140.6	4582.8	4711.4	5441.3	5537.2	5160.6
35°	4772.3	4755.9	4905.6	4900.9	4699.7	4575.8	4912.6	5104.5	5780.5	5949.0	5441.3
37.5°	5268.2	5237.8	5408.6	5490.4	5310.3	5125.5	5385.2	5607.4	6096.3	6278.8	5729.1
40°	5778.2	5855.4	6084.6	6220.3	6028.5	5782.9	5963.0	6030.8	6306.9	6494.0	5925.6
42.5°	6423.8	6536.1	6770.1	6887.0	6870.7	6604.0	6550.2	6547.8	6458.9	6433.2	6070.6
45°	7043.8	7001.7	7361.9	7616.9	7822.8	7745.6	7116.3	7046.1	6699.9	6524.4	6108.0
47.5°	7315.1	7301.1	7546.7	8000.6	8702.4	8798.3	7939.7	7668.4	7106.9	6908.1	6311.6
50°	6964.2	7036.8	7280.1	7783.0	8859.1	9591.3	8950.3	8585.4	7581.8	7376.0	6793.5
52.5°	5818.0	5867.1	6098.7	6737.3	8325.7	10059.2	9918.8	9708.3	8454.4	8112.9	7633.3
54°	4784.0	4915.0	5041.3	5682.3	7376.0	9799.5	10449.9	10288.5	9022.9	8725.8	8162.0
55°	4166.4	4243.6	4334.8	4973.5	6718.6	9359.7	10389.0	10403.1	9404.2	8917.6	8517.6
57.5°	3043.5	3097.3	3003.7	3286.8	4613.2	7600.5	9502.4	9881.4	9918.8	9205.3	8735.1
60°	2325.3	2348.7	2243.4	2287.9	2868.0	5216.7	7350.2	7806.4	8948.0	8045.0	7399.4
62.5°	1803.6	1808.3	1806.0	1883.2	1976.7	3069.2	4596.8	5001.5	6168.9	5712.7	5024.9
65°	1328.7	1307.7	1345.1	1579.1	1686.7	1930.0	2421.2	2716.0	3352.3	2830.6	2023.5
67.5°	860.9	867.9	905.3	1174.4	1445.7	1480.8	1490.2	1466.8	1469.1	809.4	507.6
70°	517.0	528.7	517.0	664.4	1034.0	1062.1	970.8	947.4	739.2	191.8	189.5
72.5°	306.5	290.1	259.7	285.4	430.4	514.7	463.2	460.9	290.1	112.3	112.3
75°	128.7	117.0	95.9	86.6	114.6	109.9	109.9	98.3	77.2	74.9	70.2
77.5°	25.7	25.7	18.7	21.1	28.1	32.8	39.8	39.8	46.8	46.8	44.4
80°	0.0	2.3	7.0	14.0	21.1	30.4	35.1	35.1	39.8	39.8	32.8
82.5°	0.0	2.3	7.0	14.0	18.7	28.1	35.1	35.1	39.8	42.1	35.1
85°	0.0	2.3	7.0	11.7	18.7	23.4	23.4	21.1	16.4	14.0	9.4
87.5°	0.0	0.0	2.3	4.7	2.3	4.7	4.7	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528673

CATALOG NUMBER: GALN-SA3D-735-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3
2.5°	4531.3	4529.0	4472.8	4381.6	4360.5	4283.3	4274.0	4227.2	4252.9	4166.4	4157.0
5°	4493.9	4465.8	4398.0	4339.5	4168.7	4047.1	3951.2	3834.2	3766.4	3778.0	3733.6
7.5°	4547.7	4475.2	4355.9	4152.3	3944.1	3731.3	3616.6	3378.0	3291.5	3162.8	3144.1
10°	4491.5	4437.7	4252.9	3916.1	3628.3	3321.9	3052.8	2788.5	2587.3	2500.8	2482.0
12.5°	4486.9	4393.3	4084.5	3710.2	3293.8	2854.0	2463.3	2133.5	1934.6	1822.4	1796.6
15°	4414.3	4302.1	3895.0	3392.1	2816.6	2269.2	1843.4	1525.3	1373.2	1307.7	1326.4
17.5°	4421.4	4252.9	3705.5	3055.2	2346.4	1665.6	1258.6	1094.8	1055.0	1071.4	1071.4
20°	4414.3	4143.0	3476.3	2666.9	1796.6	1155.6	924.0	865.6	891.3	942.8	931.1
22.5°	4376.9	4091.5	3265.7	2257.5	1321.7	856.2	741.6	743.9	783.7	846.8	860.9
25°	4405.0	3976.9	2999.0	1843.4	963.8	683.1	643.3	659.7	701.8	748.6	757.9
27.5°	4383.9	3895.0	2720.7	1431.7	704.1	587.2	584.8	603.6	622.3	657.4	657.4
30°	4407.3	3820.2	2447.0	1064.4	580.2	538.1	528.7	542.7	561.4	568.5	566.1
32.5°	4493.9	3764.0	2131.1	795.4	512.3	491.3	491.3	491.3	488.9	498.3	500.6
35°	4683.4	3773.4	1852.8	615.2	467.9	451.5	444.5	435.1	430.4	435.1	437.5
37.5°	4889.2	3768.7	1565.0	524.0	435.1	421.1	404.7	390.7	388.3	393.0	386.0
40°	4980.5	3813.1	1298.3	470.2	404.7	388.3	362.6	350.9	353.2	357.9	353.2
42.5°	5104.5	3827.2	1125.2	428.1	376.6	350.9	334.5	320.5	318.2	325.2	322.8
45°	5102.1	3747.6	942.8	404.7	350.9	322.8	301.8	290.1	290.1	294.8	297.1
47.5°	5251.8	3735.9	809.4	383.7	332.2	304.1	278.4	269.0	266.7	266.7	262.0
50°	5600.4	3899.7	706.5	360.3	308.8	283.1	262.0	250.3	241.0	236.3	233.9
52.5°	6281.1	4409.7	626.9	332.2	283.1	262.0	243.3	233.9	222.2	210.5	208.2
54°	6940.8	4936.0	622.3	308.8	262.0	248.0	231.6	226.9	212.9	196.5	191.8
55°	7237.9	5242.5	638.6	290.1	248.0	238.6	224.6	219.9	205.9	187.1	184.8
57.5°	7483.6	5361.8	629.3	241.0	224.6	222.2	210.5	203.5	187.1	161.4	156.7
60°	6023.8	4054.1	451.5	212.9	205.9	201.2	191.8	187.1	166.1	138.0	135.7
62.5°	3806.1	2332.3	287.7	187.1	180.1	173.1	161.4	156.7	138.0	109.9	102.9
65°	1621.2	966.2	194.2	166.1	154.4	142.7	133.3	126.3	109.9	81.9	79.5
67.5°	421.1	343.9	161.4	145.0	128.7	112.3	105.3	93.6	74.9	56.1	53.8
70°	189.5	173.1	135.7	121.6	102.9	86.6	77.2	65.5	49.1	37.4	35.1
72.5°	112.3	109.9	102.9	91.2	77.2	65.5	56.1	44.4	32.8	21.1	21.1
75°	70.2	67.8	70.2	63.2	53.8	49.1	42.1	30.4	18.7	9.4	9.4
77.5°	42.1	42.1	42.1	39.8	37.4	37.4	30.4	18.7	9.4	2.3	2.3
80°	32.8	32.8	35.1	32.8	32.8	32.8	25.7	14.0	4.7	0.0	0.0
82.5°	32.8	35.1	39.8	37.4	32.8	28.1	23.4	14.0	4.7	0.0	0.0
85°	9.4	7.0	11.7	16.4	23.4	21.1	16.4	11.7	4.7	0.0	0.0
87.5°	4.7	4.7	4.7	4.7	2.3	2.3	2.3	2.3	2.3	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)