

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: P648487

Luminaire Tested: **GALN-SA6B-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21732.2 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

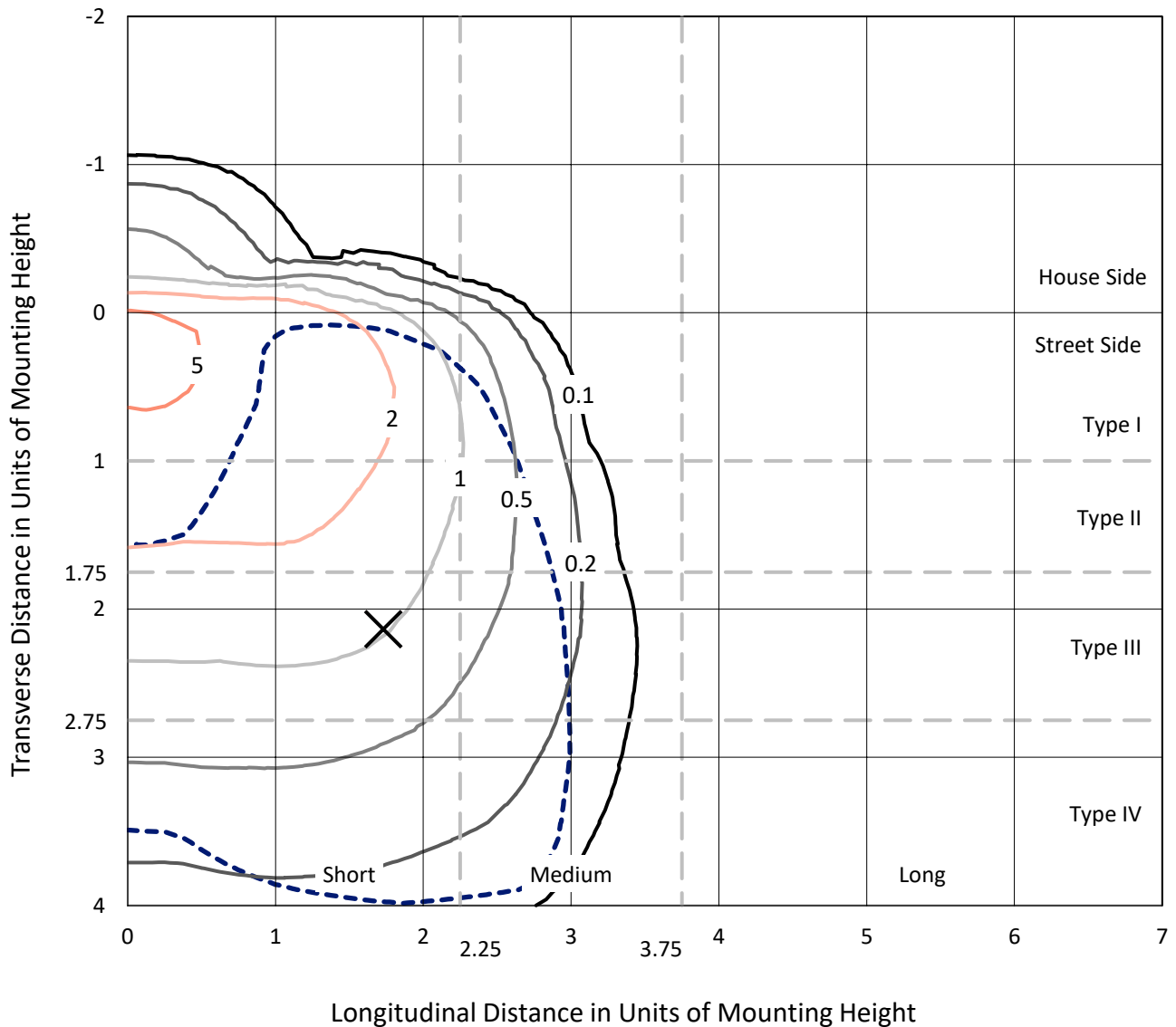
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

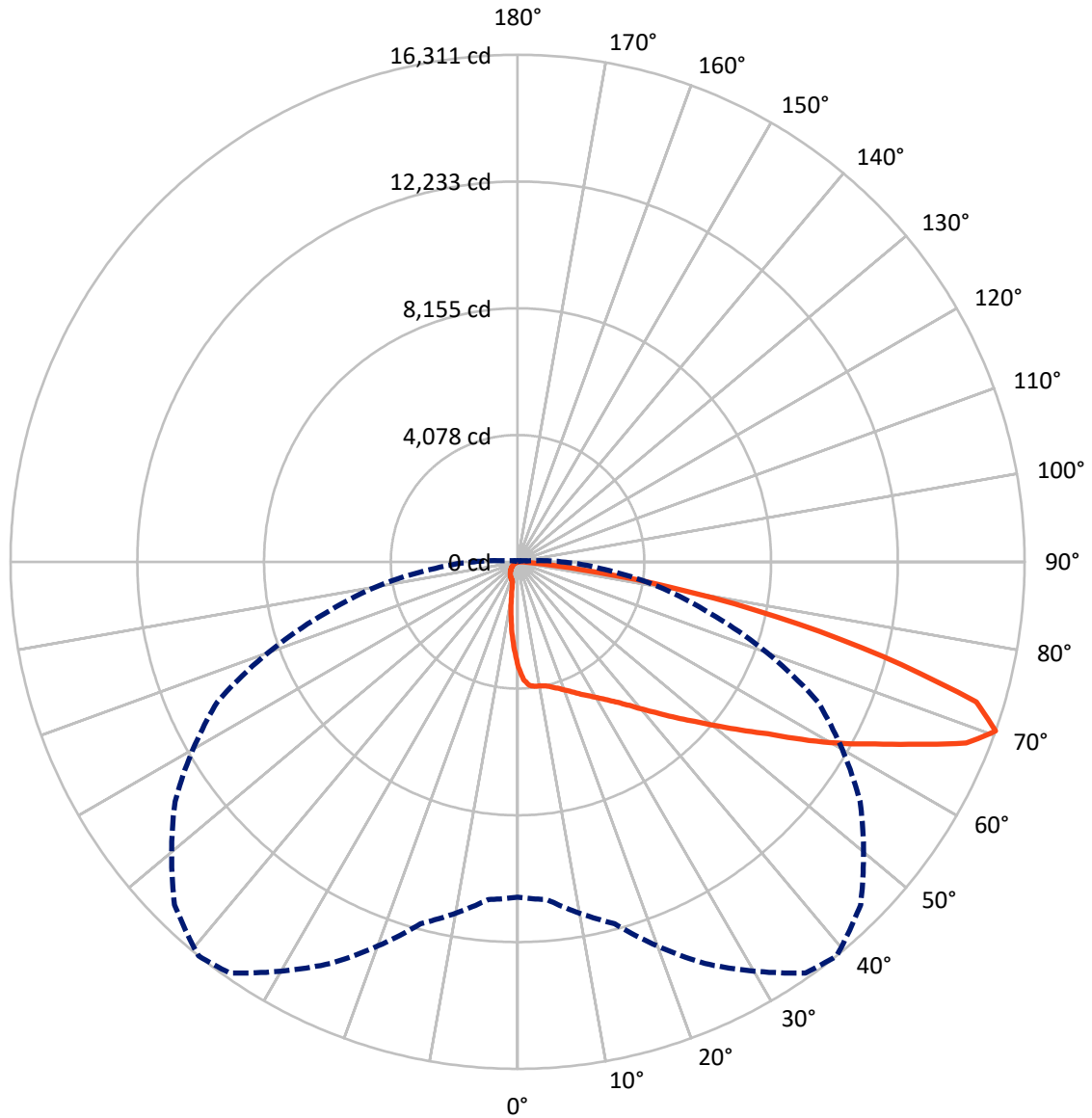
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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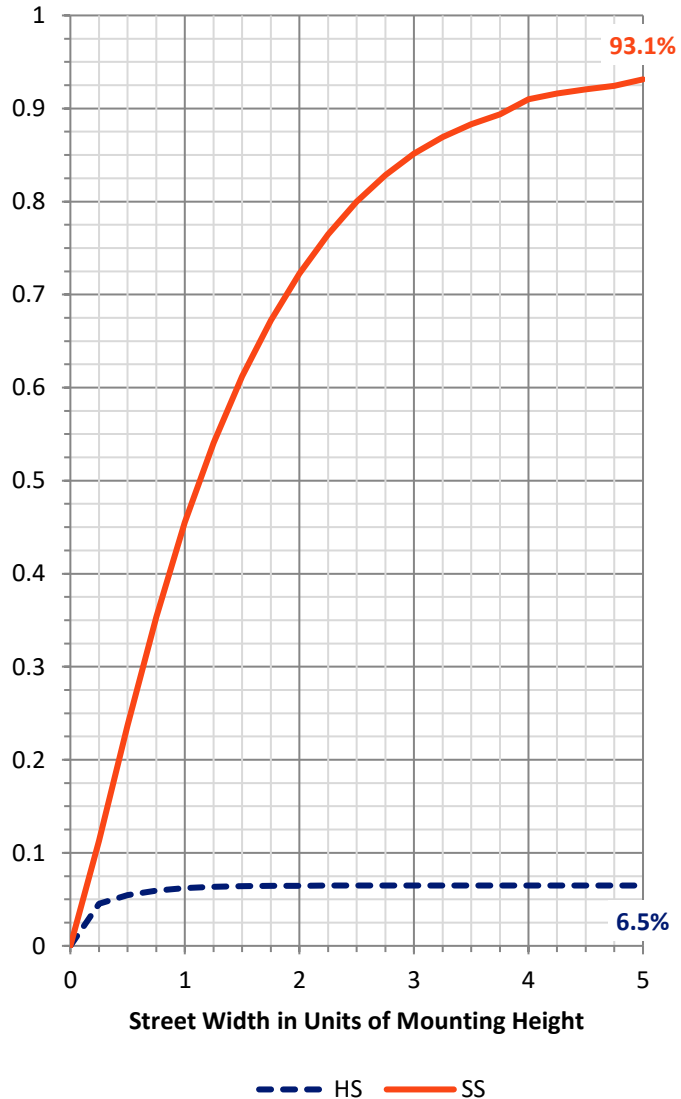
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1417.1	0.0	1417.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	20315.1	0.0	20315.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	21732.2	0.0	21732.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	1.3
10°-20°	751.6	3.5
20°-30°	1259.2	5.8
30°-40°	1952.8	9.0
40°-50°	3094.6	14.2
50°-60°	4536.2	20.9
60°-70°	5814.4	26.8
70°-80°	3653.6	16.8
80°-90°	380.6	1.8
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°	21732.2	100.0
0°-180°	21732.2	100.0

Coefficient of Utilization

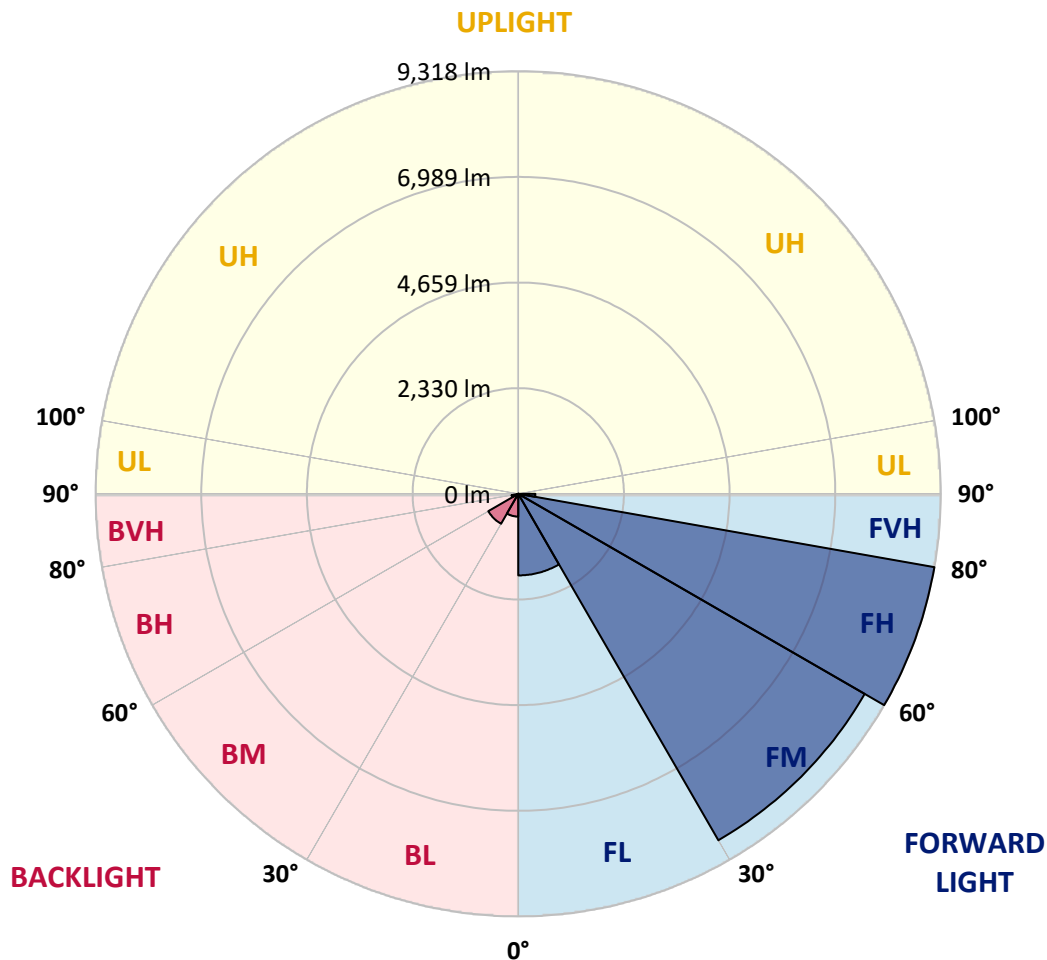


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.2	8.3			
FM (30°-60°)	8821.0	40.6			
FH (60°-80°)	9318.0	42.9			G4/12000
FVH (80°-90°)	377.8	1.7			G3/500
BL (0°-30°)	501.8	2.3	B2/1000		
BM (30°-60°)	762.6	3.5	B1/1000		
BH (60°-80°)	149.9	0.7	B1/500		G1/500
BVH (80°-90°)	2.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9
2.5°	3918.1	3905.0	3887.5	3867.1	3808.6	3798.4	3763.3	3688.9	3599.8	3526.8	3426.0
5°	4103.6	4110.9	4097.8	4061.3	4018.9	3994.1	3950.3	3834.9	3719.6	3572.0	3407.0
7.5°	4146.0	4160.5	4144.5	4109.5	4068.5	4042.3	4007.2	3908.0	3773.6	3605.6	3379.3
10°	4141.6	4159.1	4148.9	4116.8	4083.2	4058.4	4020.4	3941.5	3833.5	3656.8	3388.0
12.5°	4134.3	4157.7	4156.2	4140.1	4112.4	4093.4	4070.0	4000.0	3899.2	3731.2	3436.2
15°	4113.9	4143.1	4169.3	4182.5	4184.0	4184.0	4154.8	4080.3	3983.9	3829.1	3499.0
17.5°	4122.6	4156.2	4221.9	4259.9	4286.1	4283.2	4252.6	4172.3	4065.6	3929.8	3564.8
20°	4176.6	4221.9	4313.9	4389.9	4416.1	4407.4	4366.5	4273.0	4151.8	4016.0	3629.0
22.5°	4309.6	4350.4	4465.8	4554.9	4573.9	4550.5	4492.1	4365.0	4255.5	4109.5	3706.4
25°	4508.1	4556.4	4662.9	4730.1	4730.1	4716.9	4635.2	4486.2	4372.4	4239.4	3807.2
27.5°	4749.1	4790.0	4895.2	4955.0	4920.0	4882.0	4800.2	4620.6	4511.1	4403.0	3928.4
30°	4993.0	5019.3	5130.3	5156.5	5120.0	5071.8	4984.2	4804.6	4708.2	4624.9	4103.6
32.5°	5223.7	5280.7	5372.7	5366.8	5317.2	5293.8	5213.5	5022.2	4968.1	4959.4	4348.9
35°	5454.5	5498.3	5580.0	5600.5	5556.7	5552.3	5493.9	5352.2	5353.7	5410.6	4731.6
37.5°	5653.1	5692.5	5788.9	5834.1	5842.9	5864.8	5841.4	5748.0	5880.9	6037.2	5238.3
40°	5819.6	5875.0	5997.7	6076.5	6167.1	6247.4	6251.8	6272.2	6539.5	6808.2	5899.9
42.5°	5949.5	6026.9	6205.1	6351.1	6558.5	6660.7	6742.5	6854.9	7304.8	7706.4	6679.7
45°	6118.9	6208.0	6430.0	6659.3	6983.4	7151.4	7265.3	7566.1	8204.4	8752.0	7480.0
47.5°	6399.3	6446.0	6672.4	7006.8	7433.3	7672.8	7894.8	8350.4	9169.6	9660.3	8145.9
50°	6760.0	6790.7	6961.6	7426.0	7978.0	8293.4	8698.0	9233.8	10171.4	10413.8	8522.6
52.5°	7158.7	7168.9	7297.4	7887.4	8588.4	8985.6	9438.4	10099.8	10987.8	10951.3	8772.4
55°	7621.6	7607.0	7716.5	8388.4	9311.3	9765.4	10292.6	10986.3	11696.1	11332.4	8915.6
57.5°	8151.7	8112.3	8218.9	9052.8	10237.2	10780.4	11316.4	11751.6	12245.2	11652.2	8984.1
60°	8706.6	8627.8	8754.9	9799.0	11328.1	11843.6	12289.0	12405.8	12823.4	11906.4	8865.8
62.5°	9149.2	9150.6	9387.2	10593.4	12449.6	12900.9	13137.4	13242.6	13321.4	11850.9	8243.7
65°	9840.0	9863.3	10241.6	11696.1	13747.8	14139.3	14301.3	13959.6	13343.3	11161.6	7309.1
67.5°	10552.6	10627.0	11319.3	13214.8	15247.7	15563.1	15354.2	14098.3	12747.5	9588.8	5542.1
70°	10784.8	10907.4	12048.0	14260.5	16147.3	16310.8	15604.0	13451.4	10656.2	6411.0	2789.3
72.5°	9882.2	10080.9	11628.9	13879.3	15573.3	15431.7	13961.0	11281.3	6774.6	2434.4	851.4
75°	6968.9	7056.5	9664.6	11513.5	12525.6	12124.0	10619.8	7272.6	2786.4	683.5	292.1
77.5°	3598.4	3556.0	5748.0	7639.2	8933.0	8516.8	6954.2	3764.8	1055.9	284.8	181.1
80°	1860.5	1891.2	2487.0	4002.9	5453.0	5017.8	3707.9	1745.2	562.3	157.7	138.7
82.5°	1042.7	978.4	1429.7	1748.0	2549.8	1999.2	1422.4	1235.5	245.3	94.9	131.5
85°	189.9	198.6	784.3	944.8	884.9	562.3	458.5	825.1	71.6	52.5	92.0
87.5°	2.9	2.9	151.9	271.6	172.3	78.8	144.5	118.3	14.6	20.4	16.1
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°	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9	3390.9
2.5°	3374.9	3319.4	3215.7	3113.5	2983.5	2876.9	2805.3	2730.9	2654.9	2660.8	2678.3
5°	3316.5	3220.1	3015.6	2799.5	2592.1	2405.2	2221.2	2056.2	1989.0	1927.7	1930.6
7.5°	3258.1	3122.3	2822.9	2484.1	2170.1	1851.7	1621.0	1431.2	1330.4	1254.4	1232.5
10°	3231.8	3052.1	2646.1	2180.3	1734.9	1387.3	1090.9	936.1	816.4	778.4	788.6
12.5°	3243.5	3017.1	2487.0	1905.7	1375.7	966.8	759.4	680.5	654.3	649.9	646.9
15°	3265.3	2992.3	2330.8	1602.0	1010.5	718.5	638.1	623.6	620.7	617.7	619.2
17.5°	3294.6	2970.4	2164.3	1317.2	775.5	628.0	604.6	597.3	595.9	595.9	595.9
20°	3323.8	2945.6	1978.8	1063.2	646.9	592.9	578.3	573.9	572.5	572.5	571.0
22.5°	3357.3	2923.6	1790.4	835.3	595.9	568.1	554.9	552.0	550.5	549.1	549.1
25°	3405.6	2895.9	1590.4	683.5	563.7	544.7	531.6	528.7	527.2	521.3	522.8
27.5°	3469.8	2875.5	1384.4	590.0	534.5	515.5	506.8	502.4	499.5	495.1	496.5
30°	3557.5	2858.0	1165.3	538.9	500.9	484.8	476.1	473.2	470.3	465.9	465.9
32.5°	3709.3	2865.2	934.7	498.0	470.3	451.2	442.5	439.6	436.7	432.3	432.3
35°	3937.2	2907.6	747.7	462.9	433.7	414.8	406.0	406.0	401.6	395.7	394.3
37.5°	4309.6	3015.6	600.2	429.3	398.7	381.2	370.9	368.0	363.6	354.9	353.4
40°	4749.1	3183.6	505.3	395.7	366.5	349.1	340.3	331.5	319.9	311.1	309.6
42.5°	5301.1	3355.9	438.1	362.1	335.9	319.9	309.6	295.0	277.5	265.8	264.3
45°	5876.5	3513.6	392.8	331.5	306.7	293.5	281.9	258.5	236.5	222.0	220.5
47.5°	6305.8	3542.8	356.3	302.3	281.9	268.7	252.7	223.5	194.3	181.1	176.7
50°	6508.8	3401.2	318.4	273.1	257.1	242.4	222.0	188.4	156.3	140.2	137.3
52.5°	6580.4	3155.9	287.7	246.8	232.2	214.7	189.9	151.9	122.7	106.6	105.2
55°	6551.2	2846.3	260.0	222.0	203.0	182.5	157.7	121.2	90.5	77.4	74.5
57.5°	6397.8	2452.0	232.2	197.2	173.7	153.3	125.6	90.5	61.3	49.6	48.2
60°	5984.5	1914.5	204.4	169.4	147.5	125.6	99.3	64.3	38.0	27.7	27.7
62.5°	5286.5	1420.9	178.1	141.6	124.1	100.8	70.1	40.9	20.4	14.6	13.2
65°	4417.6	1048.5	148.9	119.7	103.7	78.8	49.6	24.8	10.3	4.4	2.9
67.5°	3082.8	646.9	124.1	97.9	84.7	56.9	30.7	10.3	4.4	0.0	0.0
70°	1400.5	308.1	94.9	74.5	64.3	40.9	16.1	5.9	2.9	0.0	0.0
72.5°	435.2	162.1	67.2	54.0	43.8	26.3	8.8	4.4	2.9	0.0	0.0
75°	201.5	103.7	42.4	29.2	24.8	13.2	5.9	2.9	1.5	0.0	0.0
77.5°	150.4	80.3	24.8	16.1	13.2	8.8	4.4	2.9	1.5	0.0	0.0
80°	131.5	40.9	14.6	10.3	7.3	5.9	2.9	1.5	0.0	0.0	0.0
82.5°	118.3	20.4	8.8	5.9	4.4	2.9	1.5	1.5	0.0	0.0	0.0
85°	64.3	11.7	5.9	4.4	2.9	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	11.7	5.9	4.4	2.9	2.9	1.5	1.5	1.5	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)