

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: P651533

Luminaire Tested: **GALN-SA7D-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651533
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-SA7D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA 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: 33269.1 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

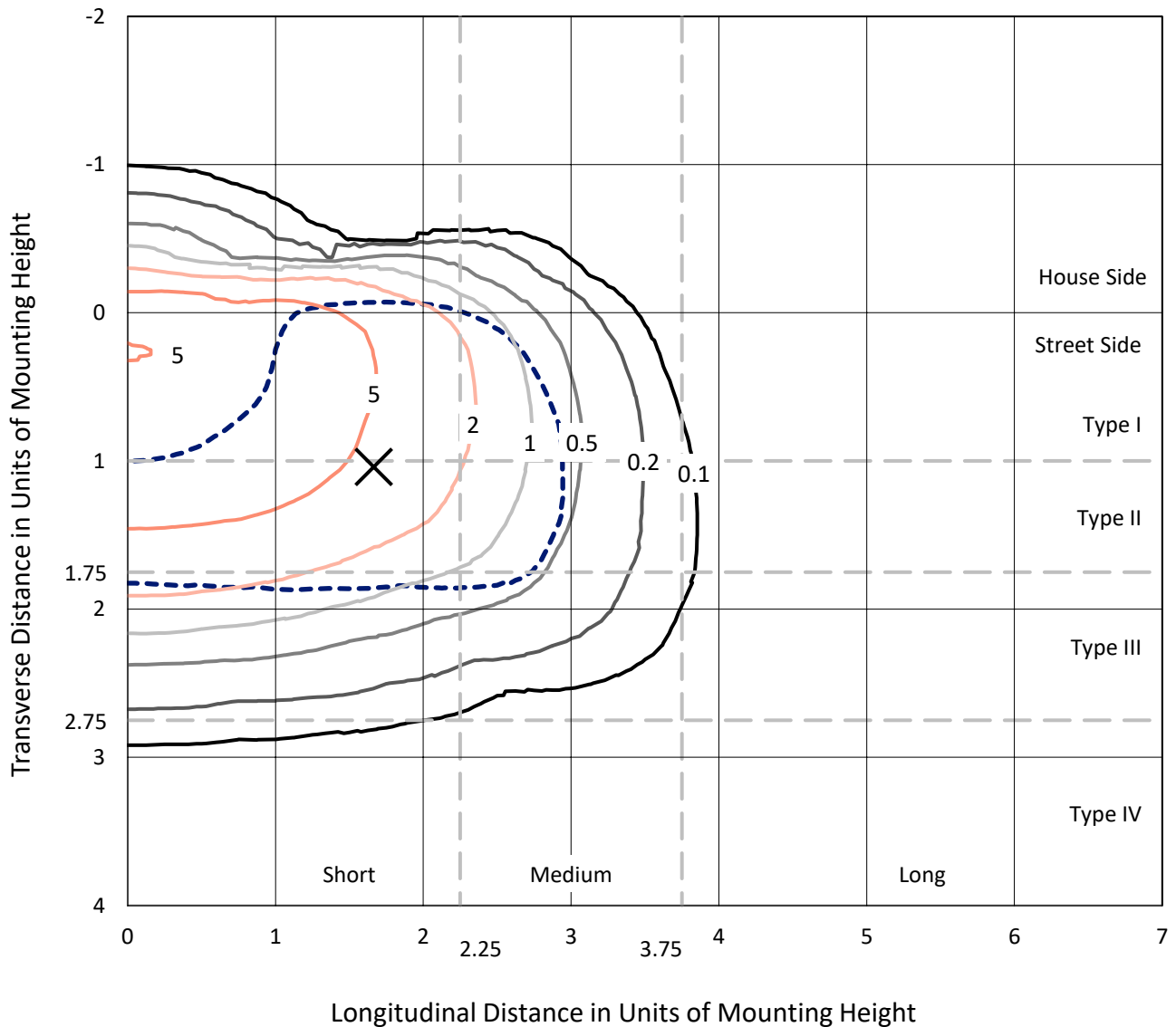
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

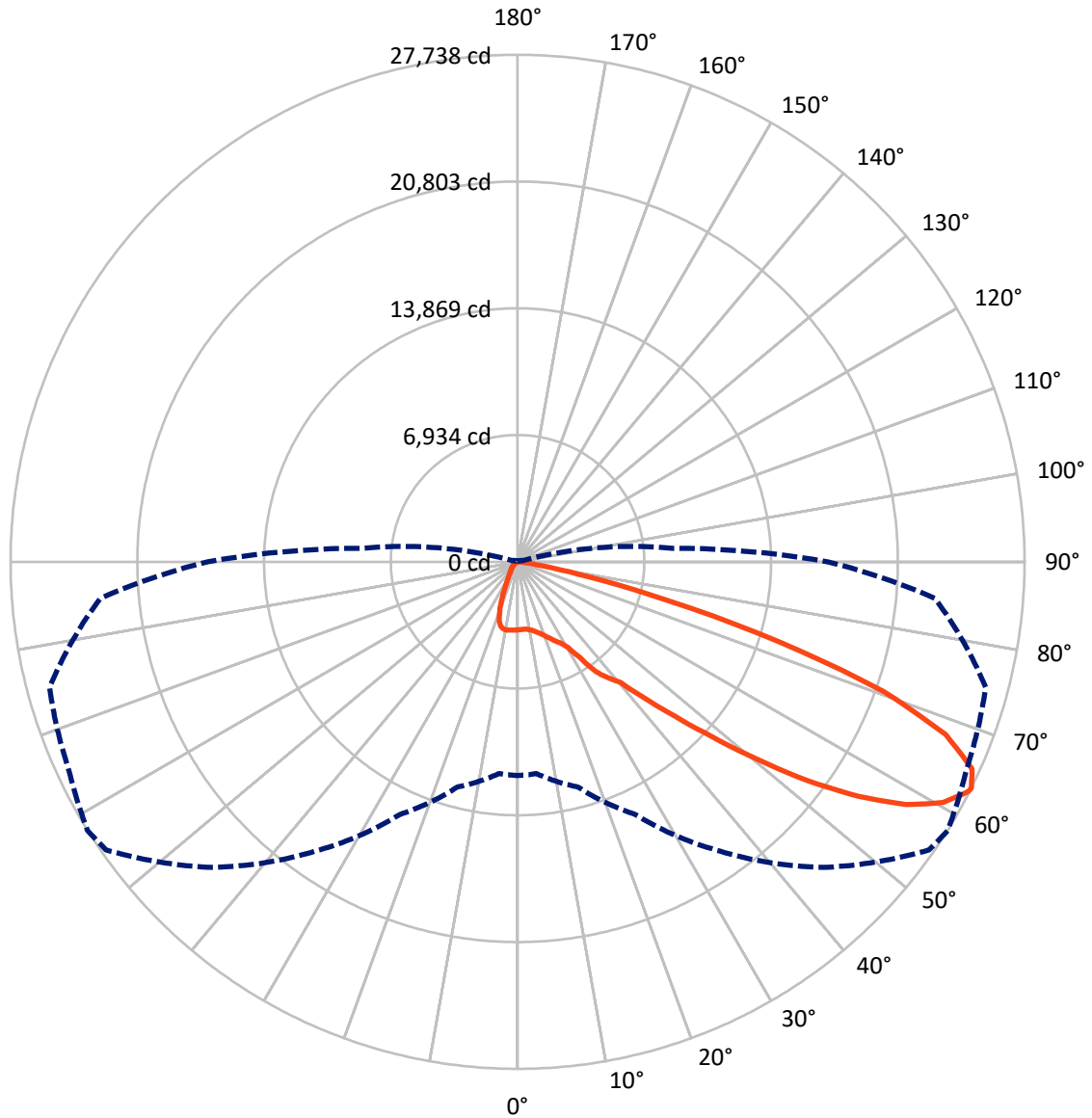
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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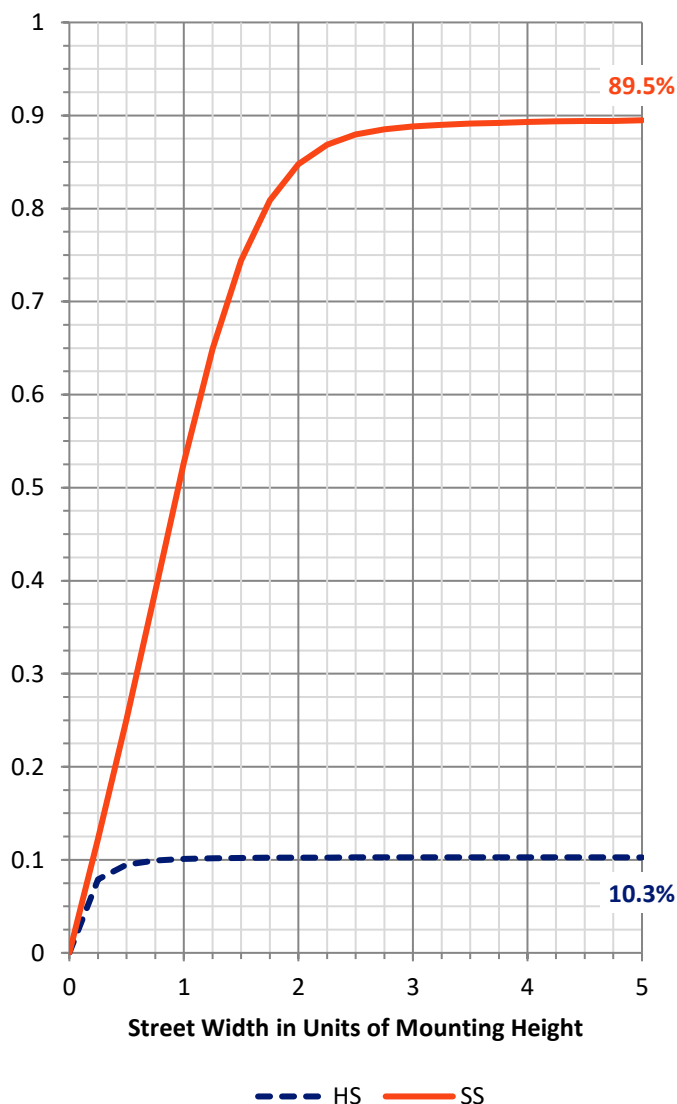
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3444.8	0.0	3444.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	29824.3	0.0	29824.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	33269.1	0.0	33269.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.7	1.0
10°-20°	949.7	2.9
20°-30°	1648.2	5.0
30°-40°	3028.7	9.1
40°-50°	5701.5	17.1
50°-60°	9752.0	29.3
60°-70°	9337.5	28.1
70°-80°	2381.1	7.2
80°-90°	121.7	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°	33269.1	100.0
0°-180°	33269.1	100.0

Coefficient of Utilization

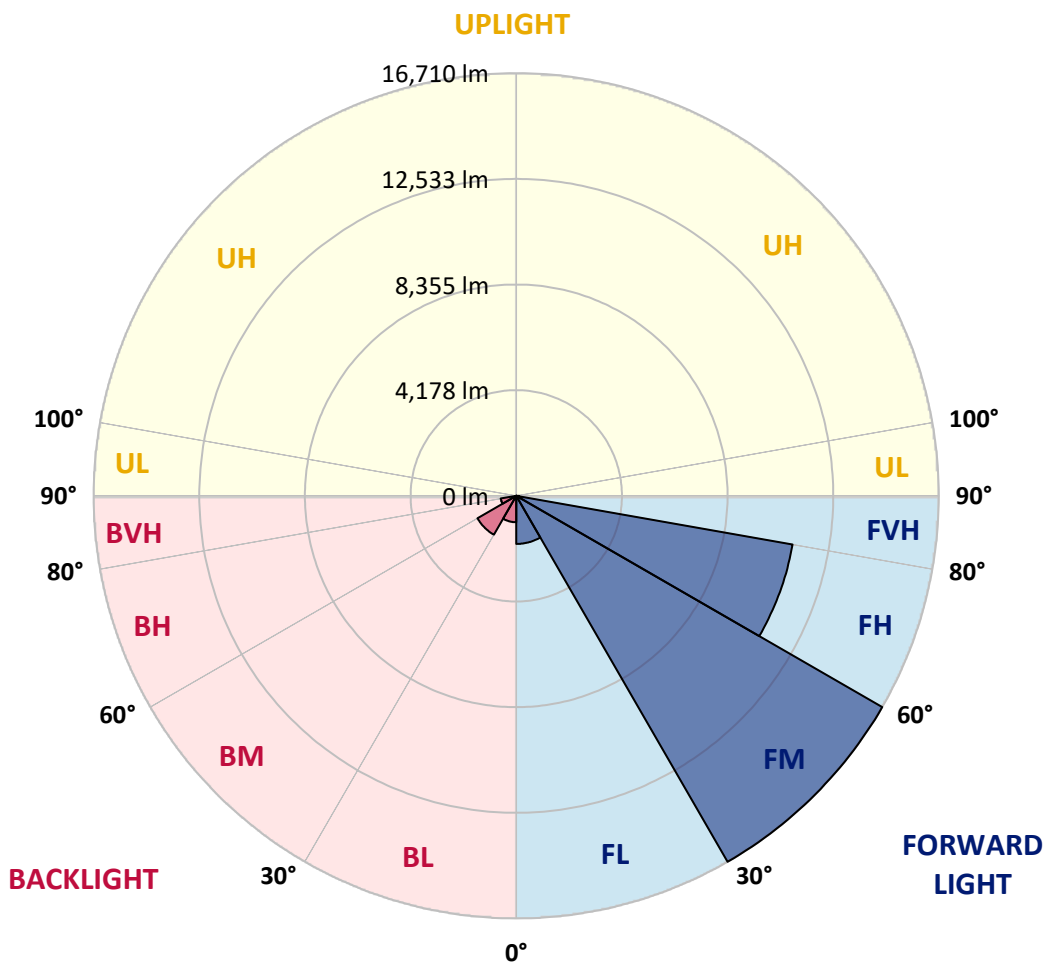


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1901.8	5.7			
FM (30°-60°)	16710.4	50.2			
FH (60°-80°)	11095.1	33.3			G4/12000
FVH (80°-90°)	117.0	0.4			G2/225
BL (0°-30°)	1044.7	3.1	B3/2500		
BM (30°-60°)	1771.8	5.3	B2/2500		
BH (60°-80°)	623.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6
2.5°	3631.9	3644.5	3657.0	3662.0	3679.5	3697.0	3709.6	3707.0	3727.1	3737.2	3737.2
5°	3486.6	3486.6	3519.2	3549.3	3599.4	3649.4	3697.0	3707.0	3744.6	3779.7	3792.2
7.5°	3363.9	3371.4	3396.5	3451.5	3519.2	3606.9	3702.1	3724.6	3789.7	3867.3	3900.0
10°	3306.3	3311.4	3343.9	3401.5	3486.6	3606.9	3739.7	3782.2	3882.4	4005.2	4050.3
12.5°	3293.8	3301.3	3333.9	3399.0	3496.7	3642.0	3822.3	3867.3	4012.7	4170.4	4238.1
15°	3316.3	3321.4	3353.9	3424.0	3531.8	3704.6	3932.5	3995.1	4167.9	4350.8	4438.5
17.5°	3396.5	3391.5	3414.0	3471.6	3591.8	3782.2	4065.2	4140.4	4343.3	4593.8	4651.4
20°	3737.2	3704.6	3684.5	3634.5	3682.1	3892.4	4225.5	4335.8	4586.2	4841.7	4881.8
22.5°	4471.0	4398.4	4255.6	4060.3	3910.0	4042.7	4418.4	4546.2	4869.3	5119.8	5119.8
25°	5405.3	5312.6	5169.9	4744.1	4375.8	4290.7	4636.3	4796.6	5177.4	5430.3	5347.7
27.5°	6575.0	6502.4	6224.4	5728.5	5164.8	4724.0	4889.3	5037.1	5450.4	5756.0	5583.1
30°	7526.9	7491.8	7263.9	6820.5	6199.3	5555.6	5360.2	5457.9	5813.6	6166.8	5988.9
32.5°	8330.9	8330.9	8098.0	7684.6	7103.6	6532.5	6159.2	6229.4	6570.1	6978.3	6647.7
35°	9215.1	9185.1	8997.2	8603.9	7952.7	7449.2	7296.4	7391.6	7699.7	8002.8	7188.7
37.5°	10144.4	10134.3	9938.9	9558.2	9027.2	8393.5	8035.3	8060.4	8218.2	8403.5	7822.4
40°	11153.8	11168.8	10913.3	10677.8	10176.9	9528.2	8841.9	8684.1	8831.8	9355.4	8992.1
42.5°	12346.0	12311.0	12200.8	11880.1	11476.9	11088.7	10264.6	10207.0	10337.2	10898.3	10505.0
45°	13731.2	13781.3	13590.9	13413.1	13142.6	12819.4	12130.7	12030.4	12173.2	13044.9	12486.3
47.5°	15118.8	15071.2	15194.0	15161.5	15306.7	15066.3	14457.5	14252.2	14595.4	15421.9	14600.3
50°	16175.9	16228.4	16483.9	16857.2	17480.9	17616.1	17032.5	16962.4	17115.2	17646.2	16491.5
52.5°	16862.1	17037.5	17438.3	18397.6	19522.2	20396.4	19953.1	19915.5	19852.9	19995.6	18299.9
55°	17310.6	17488.3	18011.9	19424.6	21360.7	22781.0	22803.5	22643.2	22229.9	22127.2	19990.7
57.5°	17035.0	17070.0	17816.5	19705.1	22380.2	24481.7	25218.1	25057.8	24293.9	23905.6	21483.5
60°	15311.8	15384.3	16423.8	18643.0	21936.9	25037.7	26818.6	26746.1	25909.4	25471.1	22645.7
62.5°	12258.4	12468.8	13538.3	16013.1	19875.4	24101.0	27467.4	27672.8	27021.6	26417.9	23011.4
63°	11697.3	11629.7	12759.3	15246.6	19329.4	23637.6	27477.4	27737.9	27071.6	26508.1	22911.2
65°	8659.0	8861.9	9595.8	12022.9	16085.7	21481.0	26858.8	27319.6	26886.3	26109.9	21801.6
67.5°	4861.7	4851.7	5663.3	7867.5	11259.0	16849.7	24286.3	25260.7	25170.5	23429.7	18072.0
70°	2379.5	2417.1	2750.2	4077.8	6529.9	11624.6	20181.0	21233.0	21265.6	18402.6	12496.3
72.5°	1077.1	1094.6	1332.6	1986.3	3356.4	6189.3	13906.5	14910.9	14725.6	11727.4	6900.7
75°	568.6	606.2	733.9	999.4	1618.1	2552.4	7564.5	8536.3	8148.0	5357.8	2539.8
77.5°	420.8	433.4	498.5	636.2	866.7	994.4	3263.8	3882.4	3636.9	1938.7	841.6
80°	308.1	318.1	370.7	450.9	546.1	505.9	1229.9	1410.2	1264.9	658.8	258.0
82.5°	187.9	190.4	270.5	335.6	343.1	283.1	405.8	435.8	455.9	370.7	140.3
85°	67.6	85.2	182.8	243.0	202.8	142.8	170.3	187.9	205.4	235.5	82.7
87.5°	7.5	10.0	87.6	117.7	57.6	52.6	62.7	70.1	75.2	87.6	40.1
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°	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6	3724.6
2.5°	3747.2	3757.2	3749.7	3737.2	3734.6	3727.1	3712.1	3712.1	3712.1	3717.1	3712.1
5°	3802.2	3809.7	3792.2	3767.2	3739.7	3704.6	3667.0	3644.5	3642.0	3636.9	3624.4
7.5°	3907.5	3917.5	3877.4	3817.3	3742.1	3657.0	3576.9	3501.7	3466.6	3439.1	3439.1
10°	4060.3	4070.3	3990.1	3882.4	3732.1	3559.3	3369.0	3196.1	3060.8	2998.2	2983.2
12.5°	4243.1	4248.1	4115.3	3927.5	3679.5	3346.4	2940.6	2562.4	2299.4	2179.2	2166.7
15°	4443.5	4408.4	4233.1	3945.0	3529.3	2908.0	2206.7	1743.3	1470.3	1390.2	1420.2
17.5°	4646.4	4581.3	4323.2	3917.5	3191.1	2206.7	1482.9	1189.8	1104.6	1082.0	1082.0
20°	4836.8	4746.5	4388.3	3797.3	2605.0	1520.4	1099.6	1029.5	1014.4	999.4	1001.9
22.5°	5027.1	4889.3	4445.9	3529.3	1941.2	1087.1	984.4	961.9	941.8	921.7	919.2
25°	5212.4	5022.1	4468.5	3033.3	1322.6	934.3	899.2	869.2	829.1	806.5	801.6
27.5°	5405.3	5182.4	4453.5	2407.1	964.4	836.6	801.6	758.9	711.3	671.3	671.3
30°	5776.0	5487.9	4400.9	1730.8	811.6	736.4	691.3	623.7	571.1	531.0	528.5
32.5°	6282.0	5886.2	4220.6	1217.3	721.4	648.7	581.1	505.9	450.9	420.8	420.8
35°	6732.9	6287.0	3882.4	896.7	648.7	563.6	480.9	408.3	365.7	345.7	338.2
37.5°	7419.1	6873.1	3416.5	728.9	578.6	488.5	403.3	335.6	300.6	285.5	285.5
40°	8448.6	7589.5	2845.4	638.7	511.0	415.8	335.6	283.1	255.5	237.9	237.9
42.5°	9726.1	8466.2	2266.8	573.6	448.3	358.2	280.6	240.4	215.4	202.8	200.4
45°	11334.2	9390.4	1745.8	513.5	398.3	305.6	237.9	202.8	177.9	170.3	172.8
47.5°	13012.3	10204.4	1352.6	460.9	345.7	258.0	202.8	175.3	157.8	147.8	147.8
50°	14445.1	10765.6	1026.9	400.7	305.6	217.9	177.9	157.8	142.8	137.8	135.2
52.5°	15642.3	10928.4	786.5	348.2	268.0	187.9	157.8	142.8	130.3	122.7	122.7
55°	16661.8	10785.6	616.2	293.1	225.5	162.8	140.3	127.7	112.7	105.2	102.7
57.5°	17257.9	10327.2	470.9	243.0	182.8	135.2	122.7	107.7	90.2	77.6	77.6
60°	17558.5	9660.9	360.7	200.4	140.3	107.7	100.2	80.1	62.7	52.6	50.1
62.5°	17197.8	8776.8	273.0	157.8	105.2	80.1	67.6	57.6	40.1	30.0	30.0
63°	16974.9	8521.3	263.0	150.3	97.7	75.2	62.7	52.6	35.1	27.6	25.1
65°	15474.5	7406.6	215.4	120.3	77.6	52.6	42.6	37.6	25.1	12.5	10.0
67.5°	12288.4	5665.8	170.3	90.2	55.1	37.6	25.1	22.5	7.5	0.0	0.0
70°	8308.3	3659.4	132.8	65.1	37.6	22.5	12.5	10.0	2.5	0.0	0.0
72.5°	4333.3	1876.1	102.7	47.6	22.5	15.1	7.5	2.5	0.0	0.0	0.0
75°	1532.9	638.7	75.2	30.0	15.1	7.5	2.5	0.0	0.0	0.0	0.0
77.5°	463.4	237.9	47.6	22.5	10.0	5.0	0.0	0.0	0.0	0.0	0.0
80°	162.8	87.6	27.6	15.1	7.5	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	80.1	42.6	17.5	12.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	45.1	27.6	15.1	12.5	7.5	5.0	0.0	0.0	0.0	0.0	0.0
87.5°	32.5	20.0	15.1	12.5	10.0	5.0	2.5	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)