

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633899

Luminaire Tested: GWS-SA2F-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-760-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13725.2 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

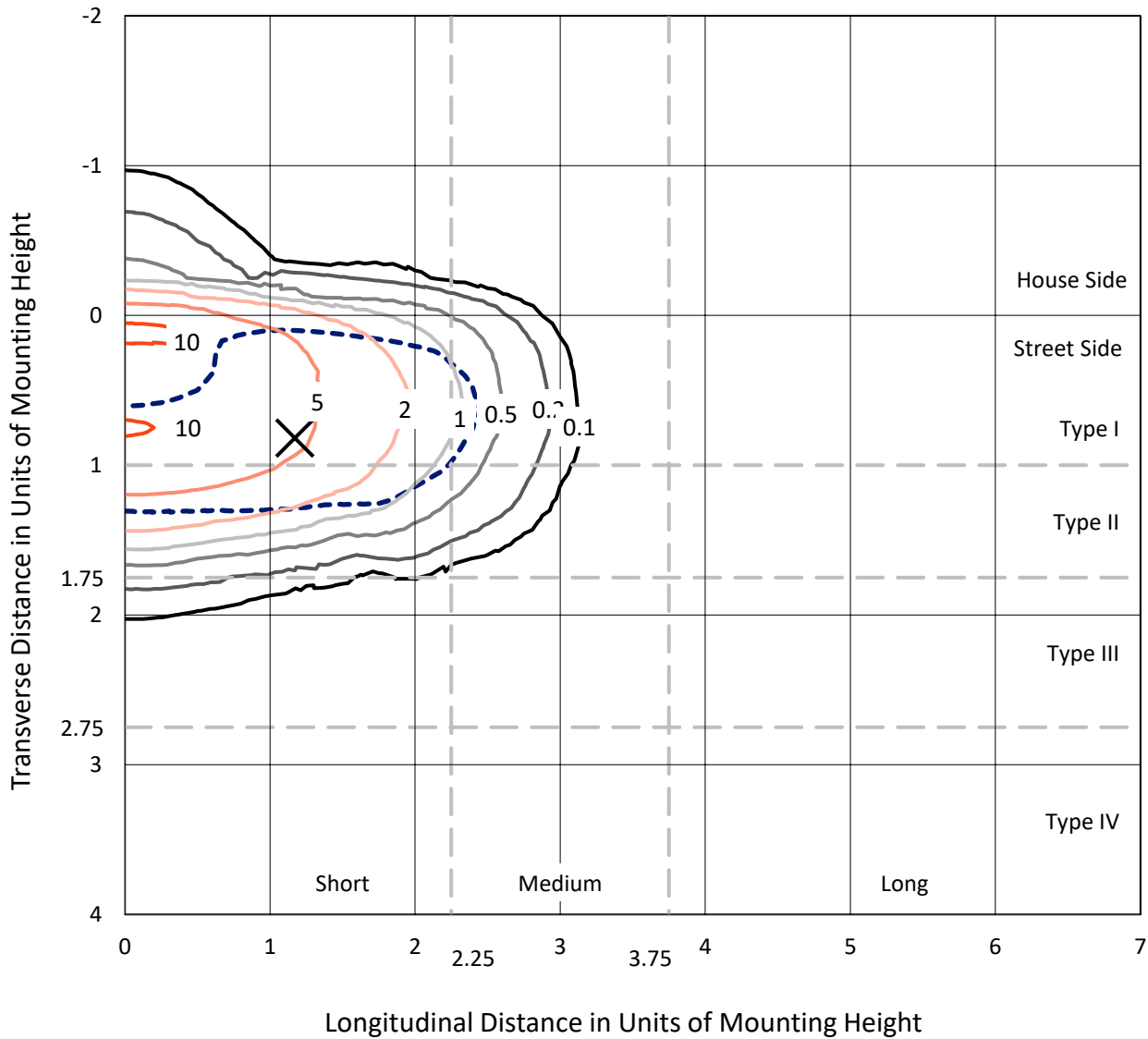
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

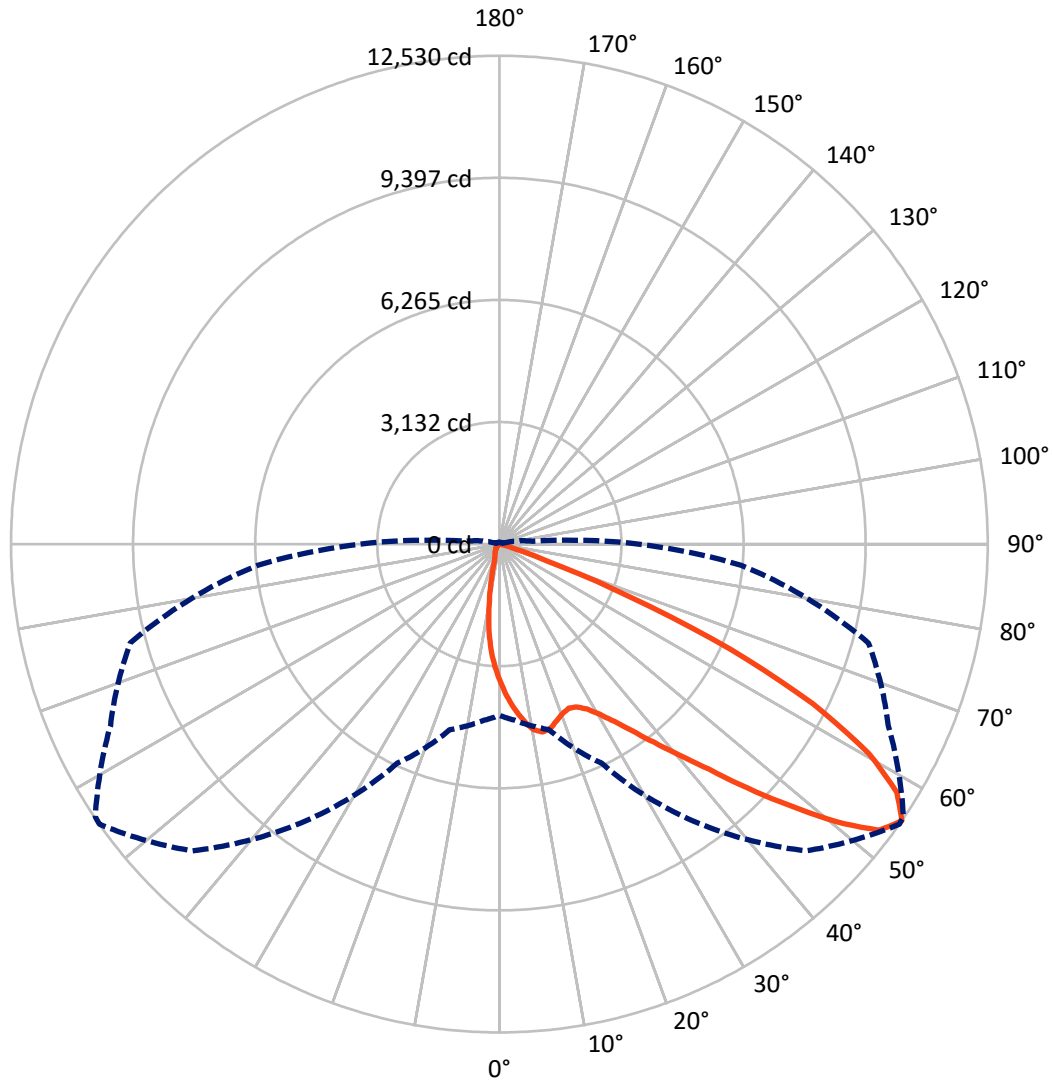
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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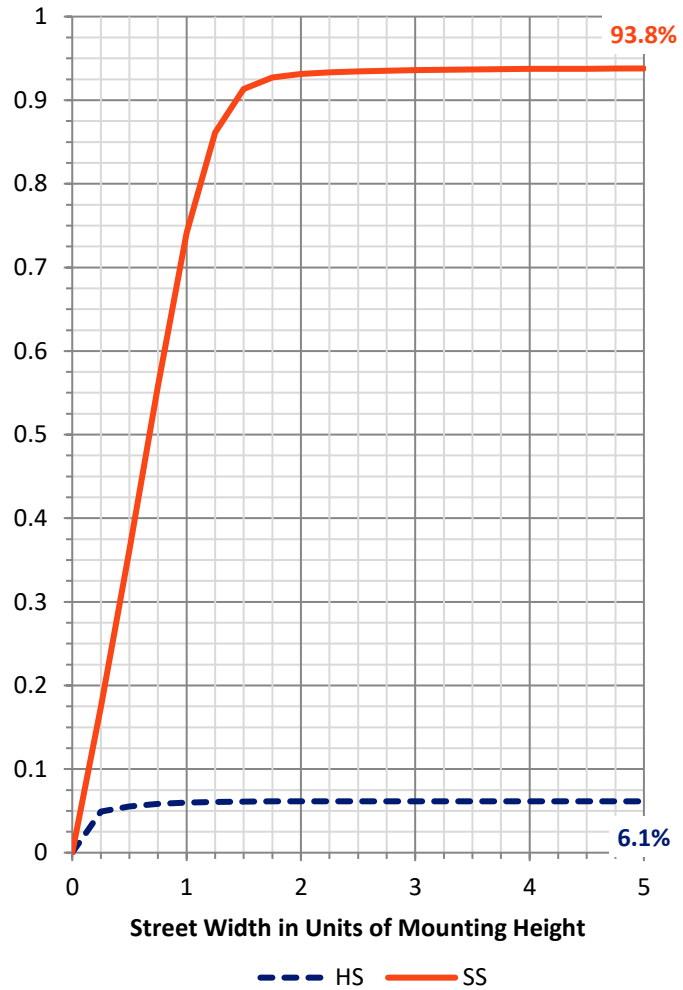
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	846.9	0.0	846.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	12878.3	0.0	12878.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	13725.2	0.0	13725.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	2.3
10°-20°	755.5	5.5
20°-30°	1258.2	9.2
30°-40°	2144.0	15.6
40°-50°	3499.7	25.5
50°-60°	3664.1	26.7
60°-70°	1848.1	13.5
70°-80°	233.4	1.7
80°-90°	8.9	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°	13725.2	100.0
0°-180°	13725.2	100.0

Coefficient of Utilization



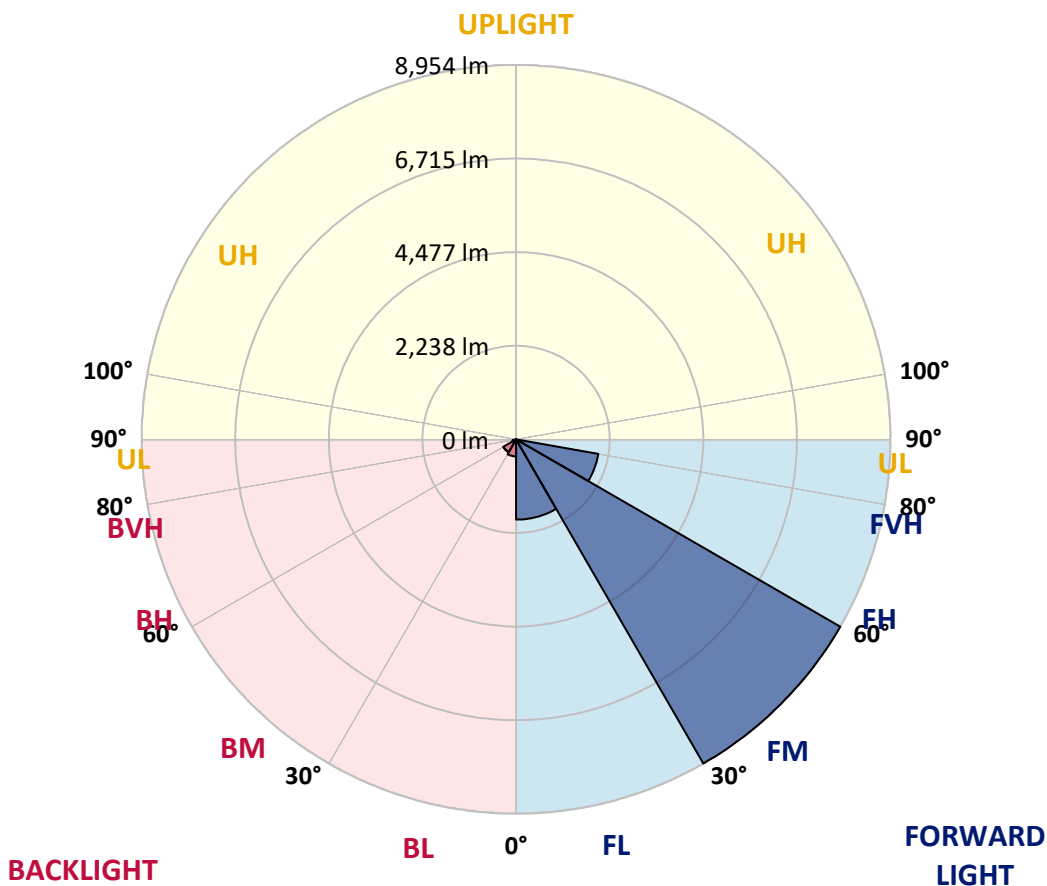
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1920.0	14.0			
FM (30°-60°)	8953.7	65.2			
FH (60°-80°)	1996.6	14.5			G2/5000
FVH (80°-90°)	8.1	0.1			G0/10
BL (0°-30°)	407.1	3.0	B1/500		
BM (30°-60°)	354.1	2.6	B1/1000		
BH (60°-80°)	85.0	0.6	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8
2.5°	4133.6	4113.7	4144.2	4109.0	4049.1	3998.7	3933.0	3909.5	3803.9	3704.2	3608.0
5°	4635.8	4641.7	4632.3	4583.0	4498.5	4404.7	4272.1	4242.7	4058.5	3868.5	3663.1
7.5°	4760.2	4756.7	4776.6	4795.4	4781.3	4734.4	4590.0	4560.7	4331.9	4046.8	3747.6
10°	4376.5	4378.8	4419.9	4546.6	4703.9	4867.0	4844.7	4828.2	4604.1	4248.6	3841.5
12.5°	3834.4	3855.5	3899.0	4079.7	4346.0	4716.8	4946.7	4963.2	4854.0	4470.4	3951.8
15°	3599.8	3604.5	3639.7	3748.8	3947.1	4404.7	4903.3	4949.1	5062.9	4693.3	4071.4
17.5°	3593.9	3599.8	3615.0	3663.1	3792.2	4159.4	4763.7	4843.5	5220.1	4932.7	4214.6
20°	3814.5	3811.0	3800.4	3774.6	3830.9	4078.5	4634.6	4722.6	5305.8	5166.1	4358.9
22.5°	4214.6	4209.9	4163.0	4056.2	4010.4	4152.4	4571.3	4651.1	5357.4	5373.8	4477.4
25°	4675.7	4708.6	4620.6	4458.6	4346.0	4341.3	4627.6	4683.9	5402.0	5558.0	4558.4
27.5°	5181.4	5192.0	5116.9	4935.0	4771.9	4644.0	4790.7	4832.9	5451.3	5722.3	4604.1
30°	5736.4	5732.9	5647.2	5436.0	5237.7	5053.5	5065.2	5081.7	5566.3	5910.0	4654.6
32.5°	6429.8	6445.1	6292.5	6005.1	5766.9	5512.3	5424.3	5426.6	5773.9	6151.7	4730.8
35°	7372.0	7334.5	7132.6	6723.2	6317.2	6042.6	5892.4	5879.5	6094.2	6476.8	4863.4
37.5°	8269.6	8273.1	8061.9	7611.4	7098.6	6665.7	6453.3	6418.1	6544.8	6927.3	5084.0
40°	8892.6	8904.4	8816.4	8580.5	8037.3	7424.8	7112.7	7076.3	7129.1	7497.5	5372.7
42.5°	9222.3	9255.2	9279.8	9335.0	8923.1	8372.8	7893.0	7889.4	7834.3	8147.6	5707.1
45°	9235.2	9284.5	9434.7	9811.3	9858.3	9454.7	8932.5	8853.9	8641.5	8843.3	6006.3
47.5°	8724.8	8838.7	9157.8	9904.0	10396.8	10530.6	10013.2	9965.0	9369.0	9393.6	6230.4
50°	7535.1	7653.6	8241.4	9428.8	10532.9	11384.8	11199.4	11099.7	9976.8	9757.4	6338.3
52.5°	6314.8	6422.8	6821.7	8297.8	9968.6	11653.5	12199.1	12080.6	10522.4	9884.1	6293.7
55°	4394.1	4538.4	4928.0	6202.2	8668.5	11130.2	12529.9	12505.3	11009.3	9804.3	6224.5
57.5°	2154.2	2297.4	2685.7	3823.9	6421.6	9717.5	12024.2	12154.5	11300.3	9718.6	6168.2
60°	899.9	958.6	1092.4	1677.9	3592.7	7343.8	10882.6	11063.3	11121.9	9602.5	6162.3
62.5°	522.1	531.5	545.6	695.8	1397.4	4209.9	9027.6	9284.5	10184.5	9448.8	6069.6
65°	394.2	397.8	391.9	427.1	577.3	1596.9	6522.5	6872.2	8500.7	8848.0	5703.5
67.5°	323.8	323.8	308.6	315.6	362.6	598.4	3600.9	4089.0	6290.2	7272.3	4709.7
70°	258.1	264.0	257.0	247.6	259.3	330.9	1281.3	1588.7	3663.1	4294.4	2746.8
72.5°	195.9	195.9	207.7	200.6	192.4	207.7	447.0	502.2	1470.2	1790.5	991.5
75°	151.4	156.1	164.3	157.2	145.5	123.2	214.7	227.6	443.5	416.5	221.8
77.5°	77.4	78.6	104.4	115.0	107.9	75.1	93.9	103.3	144.3	129.1	82.1
80°	46.9	49.3	58.7	90.3	71.6	39.9	38.7	41.1	68.1	58.7	34.0
82.5°	19.9	21.1	32.9	32.9	29.3	15.3	15.3	15.3	32.9	30.5	14.1
85°	0.0	0.0	5.9	4.7	4.7	5.9	5.9	5.9	8.2	11.7	7.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	3.5
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°	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8	3545.8
2.5°	3545.8	3470.7	3369.8	3278.3	3155.1	3085.8	2989.6	2911.0	2844.1	2823.0	2813.6
5°	3547.0	3417.9	3202.0	2986.1	2720.9	2512.1	2297.4	2127.2	1987.6	1943.0	1931.3
7.5°	3570.4	3380.3	3030.7	2638.8	2195.3	1829.2	1501.9	1208.5	1072.4	1026.7	1017.3
10°	3602.1	3348.7	2832.4	2222.3	1585.2	1114.7	789.6	601.9	512.7	463.5	470.5
12.5°	3643.2	3322.9	2613.0	1771.7	1049.0	612.5	434.1	363.7	345.0	335.6	330.9
15°	3698.3	3292.3	2340.8	1324.7	643.0	394.2	334.4	315.6	308.6	303.9	302.7
17.5°	3754.6	3257.1	2063.9	931.6	427.1	327.4	300.4	291.0	286.3	282.8	281.6
20°	3814.5	3197.3	1738.9	641.8	336.7	294.5	276.9	266.3	260.5	254.6	253.4
22.5°	3840.3	3101.1	1427.9	449.4	299.2	271.0	248.7	235.8	228.8	224.1	224.1
25°	3815.7	2945.0	1106.4	341.4	272.2	245.2	222.9	208.9	203.0	198.3	198.3
27.5°	3749.9	2744.4	807.2	282.8	242.9	218.2	197.1	184.2	179.5	177.2	177.2
30°	3677.2	2491.0	569.1	242.9	210.0	190.1	172.5	164.3	163.1	160.7	160.7
32.5°	3615.0	2254.0	391.9	213.5	185.4	165.4	153.7	150.2	151.4	149.0	150.2
35°	3581.0	2021.6	291.0	190.1	165.4	146.7	140.8	140.8	140.8	139.6	139.6
37.5°	3595.1	1792.8	237.0	173.7	147.8	133.8	127.9	130.2	132.6	132.6	132.6
40°	3665.5	1589.9	210.0	158.4	132.6	122.0	117.3	120.9	124.4	126.7	126.7
42.5°	3754.6	1425.6	190.1	145.5	122.0	110.3	107.9	111.5	115.0	117.3	117.3
45°	3811.0	1260.2	170.1	129.1	111.5	97.4	97.4	102.1	100.9	102.1	102.1
47.5°	3836.8	1128.7	150.2	111.5	95.0	84.5	85.7	88.0	85.7	88.0	88.0
50°	3773.4	996.2	132.6	92.7	78.6	73.9	76.3	75.1	75.1	79.8	79.8
52.5°	3657.3	897.6	117.3	78.6	66.9	65.7	68.1	63.4	64.5	64.5	63.4
55°	3571.6	841.3	104.4	68.1	57.5	58.7	57.5	49.3	44.6	39.9	38.7
57.5°	3529.4	819.0	95.0	61.0	51.6	51.6	46.9	34.0	25.8	19.9	17.6
60°	3520.0	792.0	85.7	52.8	45.8	43.4	34.0	19.9	12.9	9.4	8.2
62.5°	3430.8	726.3	77.4	42.2	39.9	35.2	21.1	11.7	7.0	4.7	3.5
65°	3138.6	597.2	69.2	32.9	30.5	25.8	12.9	7.0	3.5	1.2	0.0
67.5°	2496.8	423.6	61.0	24.6	21.1	16.4	8.2	4.7	1.2	0.0	0.0
70°	1439.7	228.8	50.5	17.6	14.1	10.6	5.9	2.3	0.0	0.0	0.0
72.5°	481.1	106.8	38.7	11.7	10.6	8.2	3.5	1.2	0.0	0.0	0.0
75°	105.6	63.4	25.8	8.2	7.0	5.9	2.3	0.0	0.0	0.0	0.0
77.5°	39.9	44.6	12.9	5.9	4.7	3.5	1.2	0.0	0.0	0.0	0.0
80°	15.3	29.3	5.9	3.5	3.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	8.2	11.7	3.5	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	5.9	2.3	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.2	1.2	1.2	0.0	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)