

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: P633734

Luminaire Tested: GWS-SA2F-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633734
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13417.8 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

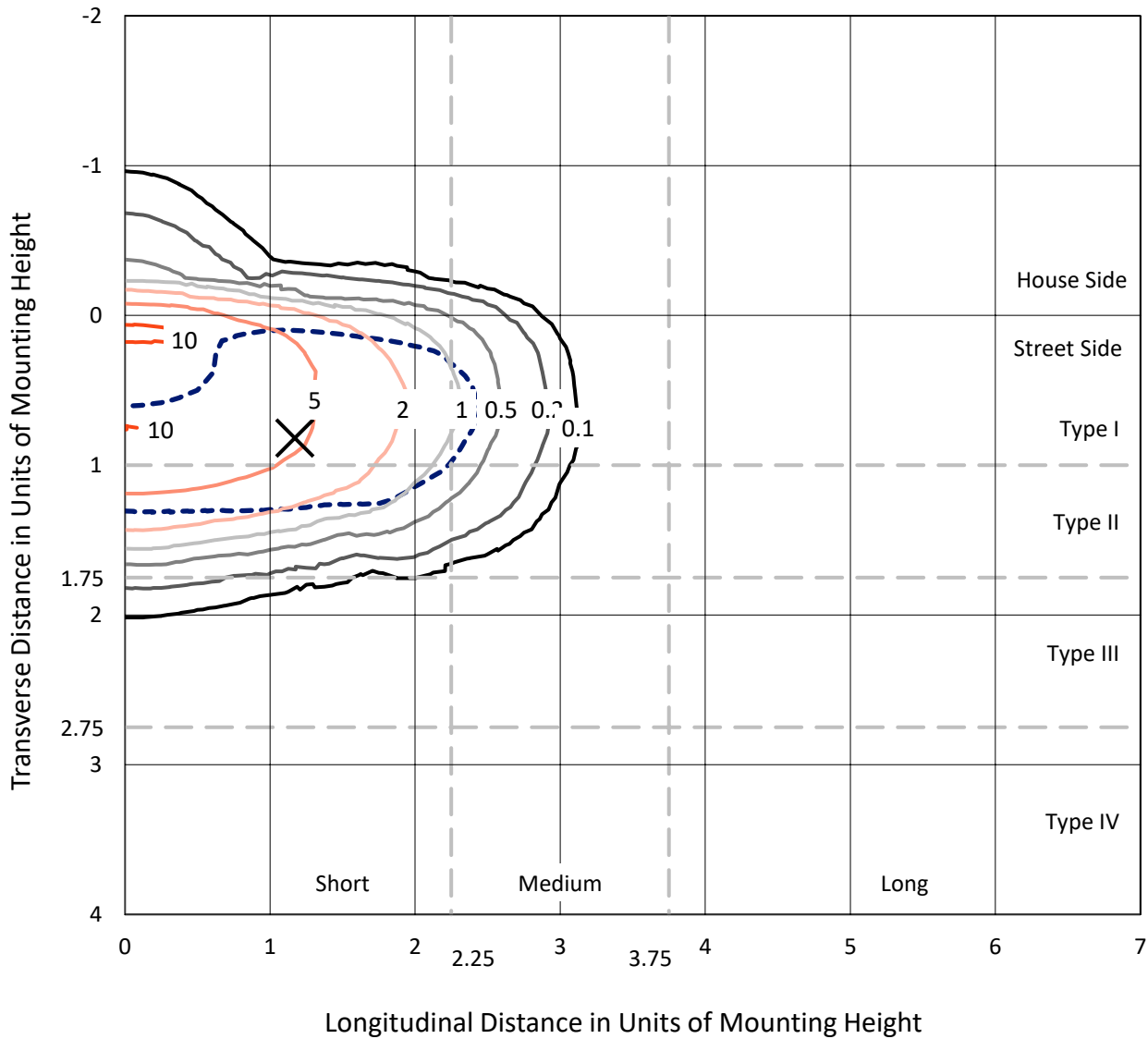
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

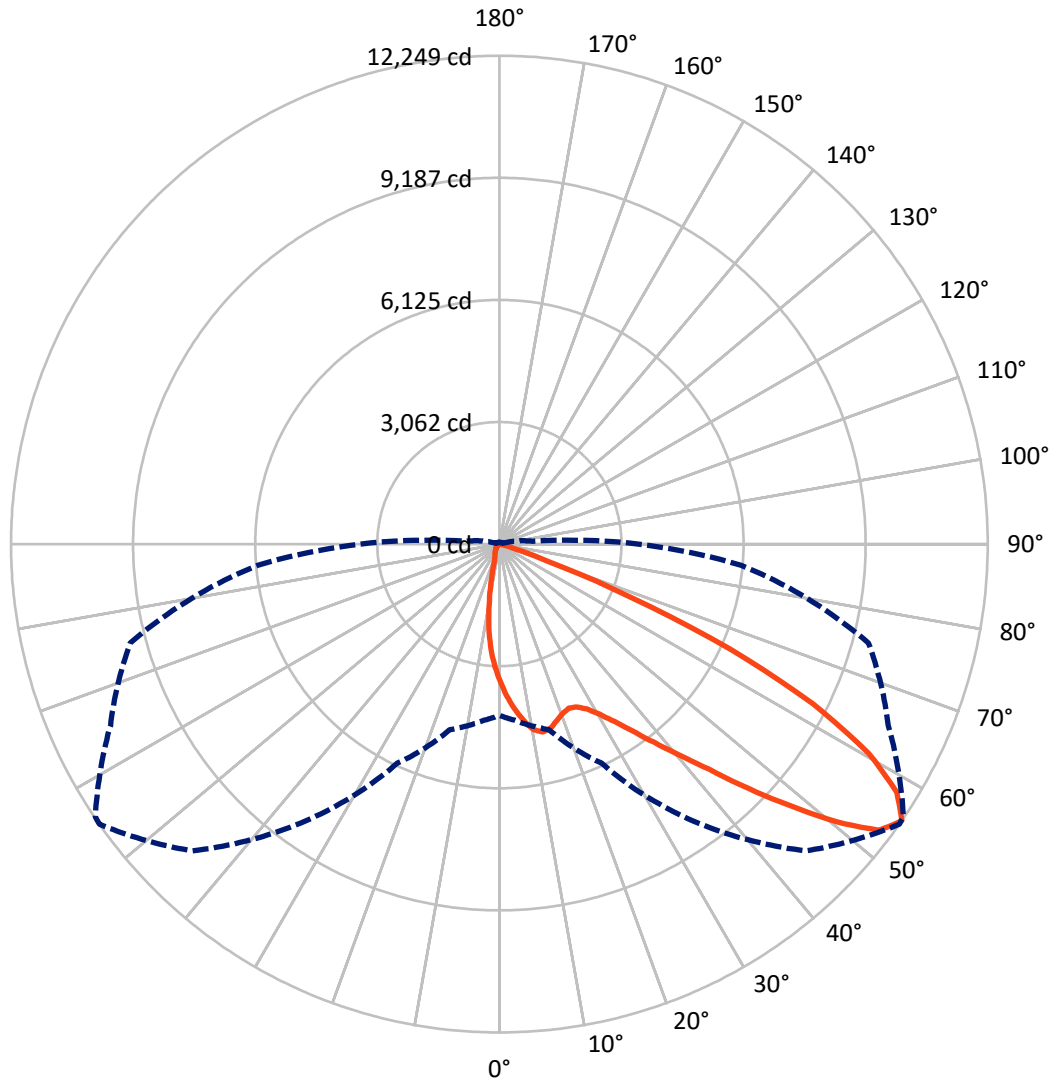
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 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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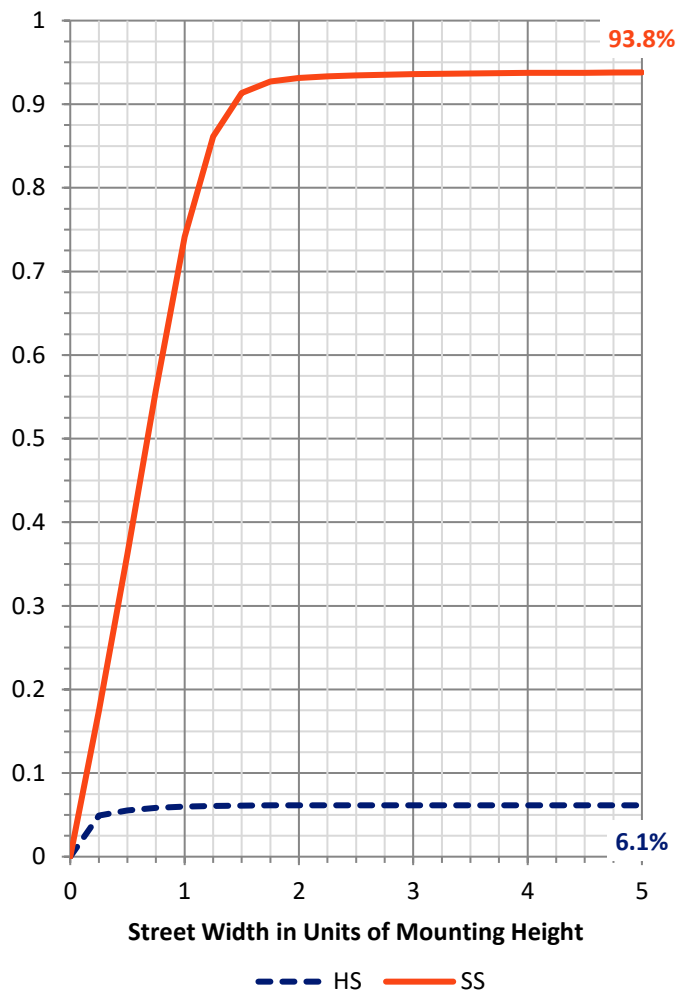
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	827.9	0.0	827.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	12589.9	0.0	12589.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	13417.8	0.0	13417.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.3	2.3
10°-20°	738.6	5.5
20°-30°	1230.0	9.2
30°-40°	2096.0	15.6
40°-50°	3421.4	25.5
50°-60°	3582.0	26.7
60°-70°	1806.7	13.5
70°-80°	228.2	1.7
80°-90°	8.7	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°	13417.8	100.0
0°-180°	13417.8	100.0

Coefficient of Utilization



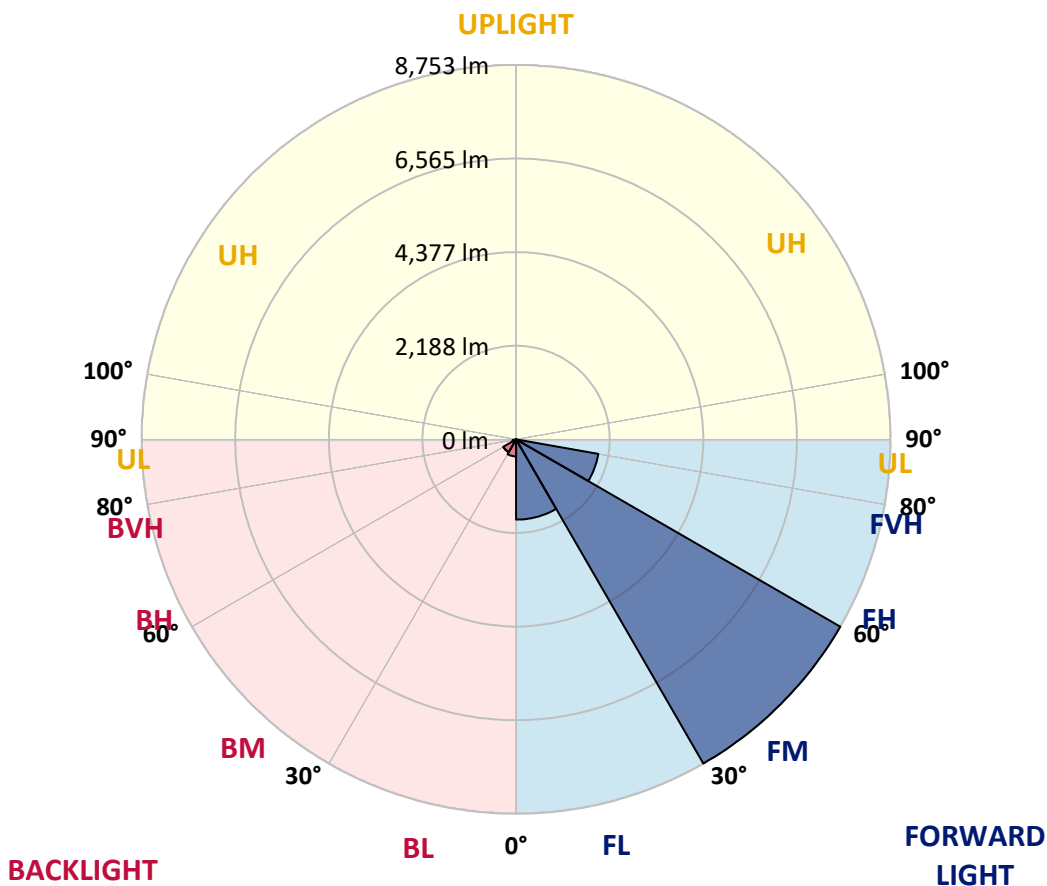
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1877.0	14.0			
FM (30°-60°)	8753.2	65.2			
FH (60°-80°)	1951.8	14.5			G2/5000
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	397.9	3.0	B1/500		
BM (30°-60°)	346.2	2.6	B1/1000		
BH (60°-80°)	83.0	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°	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4
2.5°	4041.0	4021.5	4051.4	4017.0	3958.5	3909.1	3844.9	3822.0	3718.7	3621.2	3527.2
5°	4532.0	4537.7	4528.5	4480.4	4397.8	4306.0	4176.4	4147.7	3967.6	3781.8	3581.1
7.5°	4653.6	4650.1	4669.6	4688.0	4674.2	4628.3	4487.2	4458.6	4234.9	3956.2	3663.7
10°	4278.5	4280.8	4320.9	4444.8	4598.5	4757.9	4736.2	4720.1	4501.0	4153.5	3755.4
12.5°	3748.5	3769.2	3811.6	3988.3	4248.7	4611.1	4835.9	4852.0	4745.3	4370.2	3863.3
15°	3519.1	3523.7	3558.1	3664.8	3858.7	4306.0	4793.5	4838.2	4949.5	4588.2	3980.3
17.5°	3513.4	3519.1	3534.0	3581.1	3707.3	4066.3	4657.0	4735.0	5103.2	4822.2	4120.2
20°	3729.0	3725.6	3715.3	3690.0	3745.1	3987.1	4530.8	4616.9	5186.9	5050.4	4261.3
22.5°	4120.2	4115.6	4069.7	3965.3	3920.6	4059.4	4468.9	4546.9	5237.4	5253.5	4377.1
25°	4571.0	4603.1	4517.1	4358.8	4248.7	4244.1	4524.0	4579.0	5281.0	5433.6	4456.3
27.5°	5065.4	5075.7	5002.3	4824.5	4665.0	4540.0	4683.4	4724.7	5329.2	5594.1	4501.0
30°	5607.9	5604.5	5520.7	5314.3	5120.4	4940.3	4951.8	4967.9	5441.6	5777.7	4550.3
32.5°	6285.8	6300.7	6151.6	5870.6	5637.7	5388.8	5302.8	5305.1	5644.6	6014.0	4624.9
35°	7206.9	7170.2	6972.9	6572.6	6175.7	5907.3	5760.5	5747.8	5957.8	6331.7	4754.5
37.5°	8084.4	8087.8	7881.4	7440.9	6939.6	6516.4	6308.8	6274.3	6398.2	6772.2	4970.2
40°	8693.5	8704.9	8618.9	8388.3	7857.3	7258.5	6953.4	6917.8	6969.5	7329.6	5252.3
42.5°	9015.8	9047.9	9072.0	9125.9	8723.3	8185.3	7716.2	7712.7	7658.8	7965.1	5579.2
45°	9028.4	9076.6	9223.4	9591.6	9637.5	9242.9	8732.5	8655.6	8448.0	8645.3	5871.7
47.5°	8529.4	8640.7	8952.7	9682.2	10164.0	10294.7	9788.9	9741.9	9159.2	9183.3	6090.8
50°	7366.3	7482.2	8056.9	9217.7	10297.0	11129.8	10948.6	10851.1	9753.3	9538.8	6196.3
52.5°	6173.4	6278.9	6668.9	8111.9	9745.3	11392.5	11925.8	11810.0	10286.7	9662.7	6152.8
55°	4295.7	4436.8	4817.6	6063.3	8474.4	10880.9	12249.3	12225.2	10762.7	9584.7	6085.1
57.5°	2106.0	2245.9	2625.6	3738.2	6277.8	9499.8	11754.9	11882.3	11047.2	9501.0	6030.0
60°	879.8	937.1	1067.9	1640.3	3512.3	7179.4	10638.9	10815.5	10872.9	9387.4	6024.3
62.5°	510.4	519.6	533.4	680.2	1366.1	4115.6	8825.4	9076.6	9956.4	9237.2	5933.7
65°	385.4	388.8	383.1	417.5	564.3	1561.1	6376.4	6718.2	8310.3	8649.9	5575.8
67.5°	316.6	316.6	301.7	308.6	354.4	585.0	3520.3	3997.5	6149.3	7109.4	4604.2
70°	252.4	258.1	251.2	242.0	253.5	323.5	1252.6	1553.1	3581.1	4198.2	2685.2
72.5°	191.6	191.6	203.0	196.1	188.1	203.0	437.0	490.9	1437.2	1750.4	969.3
75°	148.0	152.6	160.6	153.7	142.2	120.4	209.9	222.5	433.6	407.2	216.8
77.5°	75.7	76.9	102.1	112.4	105.5	73.4	91.8	100.9	141.1	126.2	80.3
80°	45.9	48.2	57.4	88.3	70.0	39.0	37.9	40.1	66.5	57.4	33.3
82.5°	19.5	20.6	32.1	32.1	28.7	14.9	14.9	14.9	32.1	29.8	13.8
85°	0.0	0.0	5.7	4.6	4.6	5.7	5.7	5.7	8.0	11.5	6.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	3.4
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°	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4	3466.4
2.5°	3466.4	3393.0	3294.3	3204.8	3084.4	3016.7	2922.7	2845.8	2780.4	2759.8	2750.6
5°	3467.5	3341.3	3130.3	2919.2	2660.0	2455.8	2245.9	2079.6	1943.1	1899.5	1888.0
7.5°	3490.5	3304.6	2962.8	2579.7	2146.1	1788.2	1468.2	1181.5	1048.4	1003.7	994.5
10°	3521.4	3273.7	2769.0	2172.5	1549.7	1089.7	772.0	588.4	501.3	453.1	460.0
12.5°	3561.6	3248.4	2554.5	1732.0	1025.5	598.8	424.4	355.6	337.2	328.1	323.5
15°	3615.5	3218.6	2288.4	1295.0	628.6	385.4	326.9	308.6	301.7	297.1	295.9
17.5°	3670.5	3184.2	2017.7	910.8	417.5	320.0	293.6	284.5	279.9	276.4	275.3
20°	3729.0	3125.7	1699.9	627.4	329.2	287.9	270.7	260.4	254.6	248.9	247.8
22.5°	3754.3	3031.6	1396.0	439.3	292.5	265.0	243.2	230.6	223.7	219.1	219.1
25°	3730.2	2879.1	1081.7	333.8	266.1	239.7	217.9	204.2	198.4	193.9	193.9
27.5°	3666.0	2682.9	789.2	276.4	237.4	213.4	192.7	180.1	175.5	173.2	173.2
30°	3594.8	2435.2	556.3	237.4	205.3	185.8	168.6	160.6	159.4	157.1	157.1
32.5°	3534.0	2203.5	383.1	208.8	181.2	161.7	150.3	146.8	148.0	145.7	146.8
35°	3500.8	1976.4	284.5	185.8	161.7	143.4	137.6	137.6	137.6	136.5	136.5
37.5°	3514.5	1752.7	231.7	169.8	144.5	130.8	125.0	127.3	129.6	129.6	129.6
40°	3583.4	1554.2	205.3	154.9	129.6	119.3	114.7	118.1	121.6	123.9	123.9
42.5°	3670.5	1393.7	185.8	142.2	119.3	107.8	105.5	109.0	112.4	114.7	114.7
45°	3725.6	1231.9	166.3	126.2	109.0	95.2	95.2	99.8	98.6	99.8	99.8
47.5°	3750.8	1103.5	146.8	109.0	92.9	82.6	83.7	86.0	83.7	86.0	86.0
50°	3688.9	973.8	129.6	90.6	76.9	72.3	74.6	73.4	73.4	78.0	78.0
52.5°	3575.3	877.5	114.7	76.9	65.4	64.2	66.5	61.9	63.1	63.1	61.9
55°	3491.6	822.4	102.1	66.5	56.2	57.4	56.2	48.2	43.6	39.0	37.9
57.5°	3450.3	800.6	92.9	59.6	50.5	50.5	45.9	33.3	25.2	19.5	17.2
60°	3441.1	774.3	83.7	51.6	44.7	42.4	33.3	19.5	12.6	9.2	8.0
62.5°	3354.0	710.0	75.7	41.3	39.0	34.4	20.6	11.5	6.9	4.6	3.4
65°	3068.3	583.8	67.7	32.1	29.8	25.2	12.6	6.9	3.4	1.1	0.0
67.5°	2440.9	414.1	59.6	24.1	20.6	16.1	8.0	4.6	1.1	0.0	0.0
70°	1407.4	223.7	49.3	17.2	13.8	10.3	5.7	2.3	0.0	0.0	0.0
72.5°	470.3	104.4	37.9	11.5	10.3	8.0	3.4	1.1	0.0	0.0	0.0
75°	103.2	61.9	25.2	8.0	6.9	5.7	2.3	0.0	0.0	0.0	0.0
77.5°	39.0	43.6	12.6	5.7	4.6	3.4	1.1	0.0	0.0	0.0	0.0
80°	14.9	28.7	5.7	3.4	3.4	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	8.0	11.5	3.4	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	5.7	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.1	1.1	1.1	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)