

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: P636704

Luminaire Tested: GWS-SA4B-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636704
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-SA4B-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11971.7 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

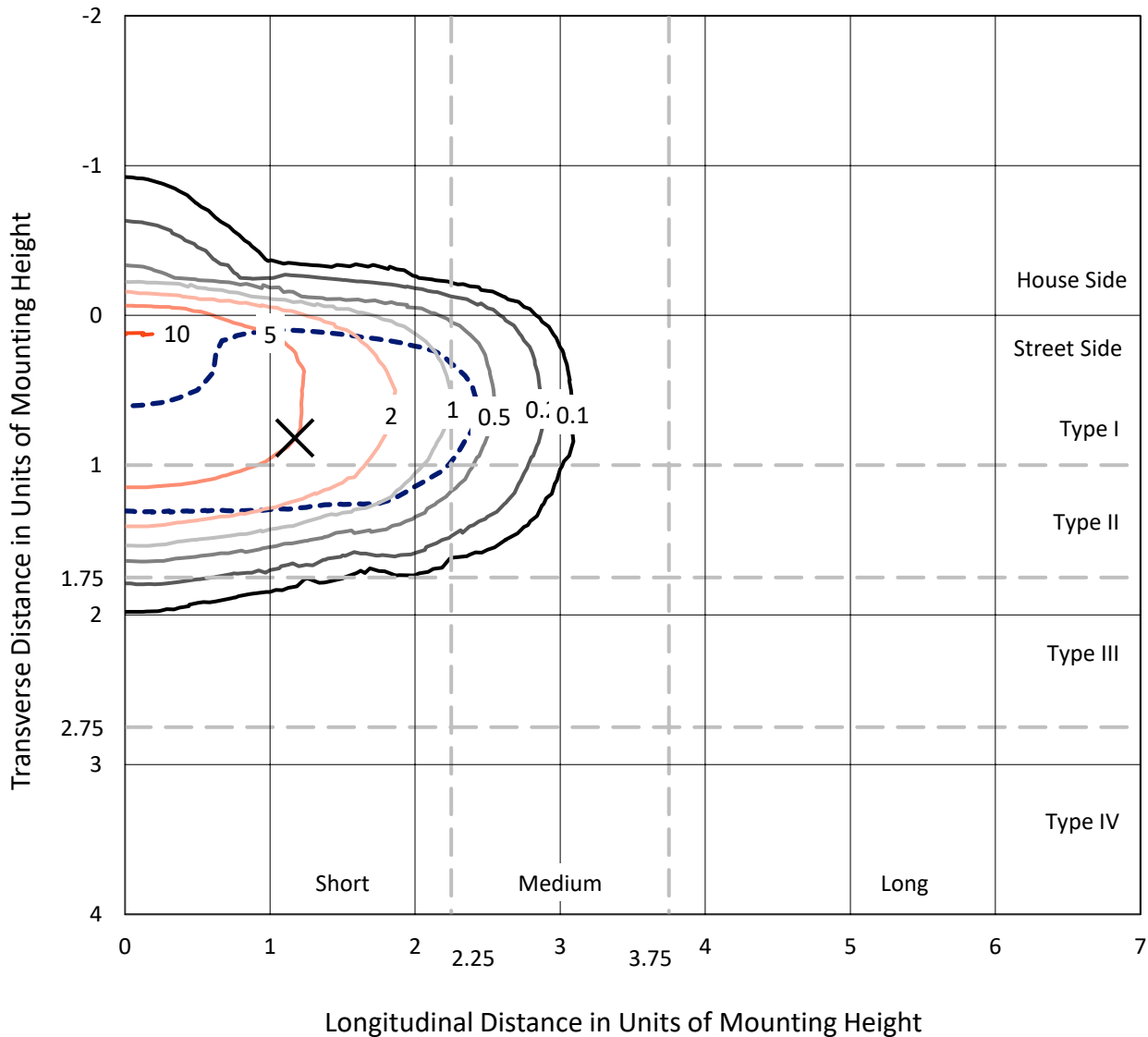
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

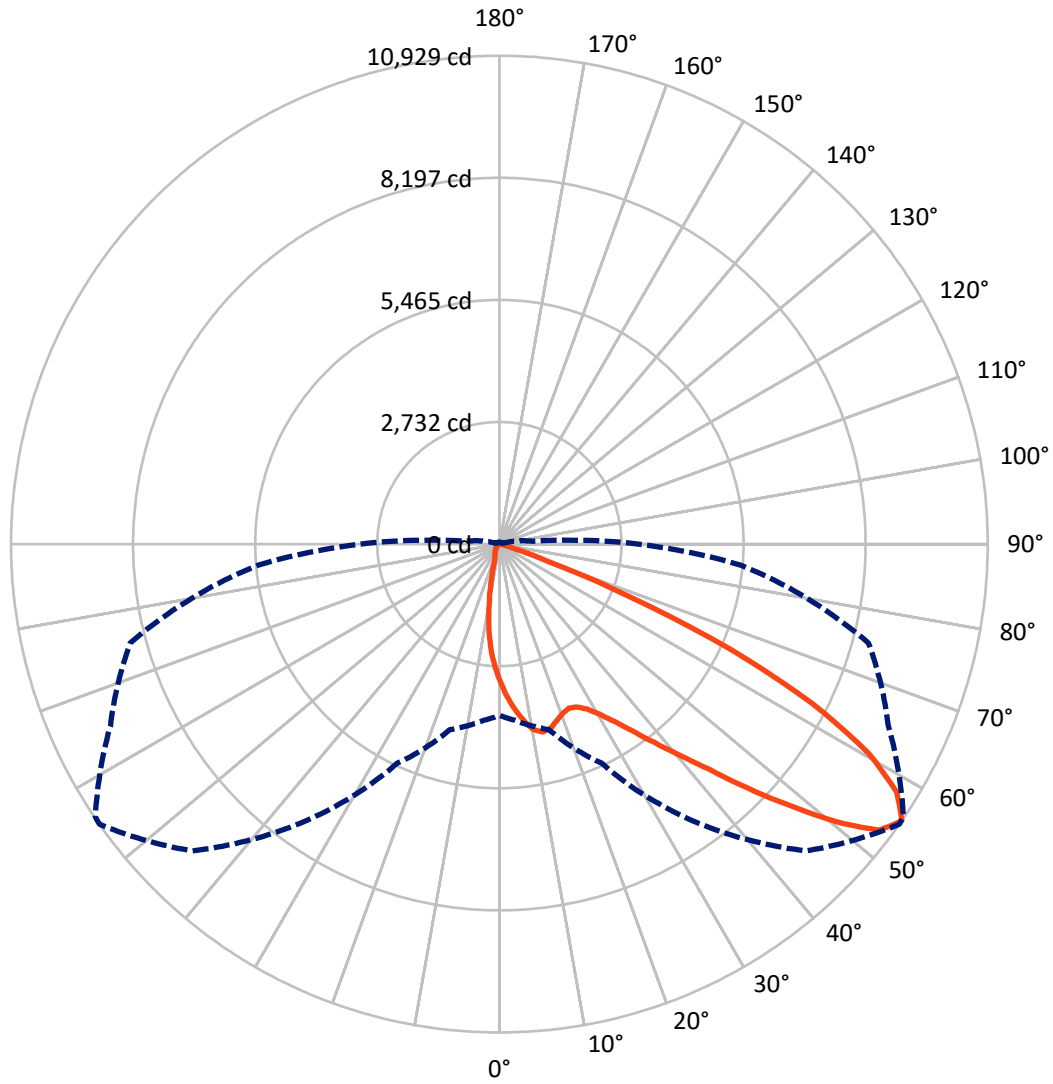
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 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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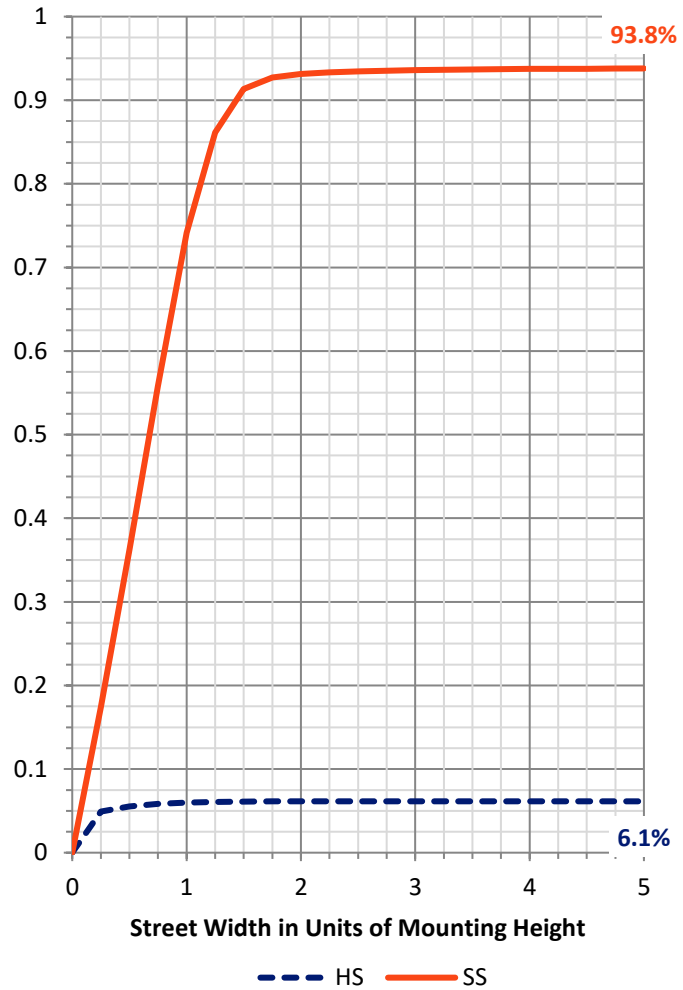
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	738.7	0.0	738.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	11233.0	0.0	11233.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	11971.7	0.0	11971.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.3	2.3
10°-20°	659.0	5.5
20°-30°	1097.4	9.2
30°-40°	1870.1	15.6
40°-50°	3052.6	25.5
50°-60°	3196.0	26.7
60°-70°	1612.0	13.5
70°-80°	203.6	1.7
80°-90°	7.7	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°	11971.7	100.0
0°-180°	11971.7	100.0

Coefficient of Utilization

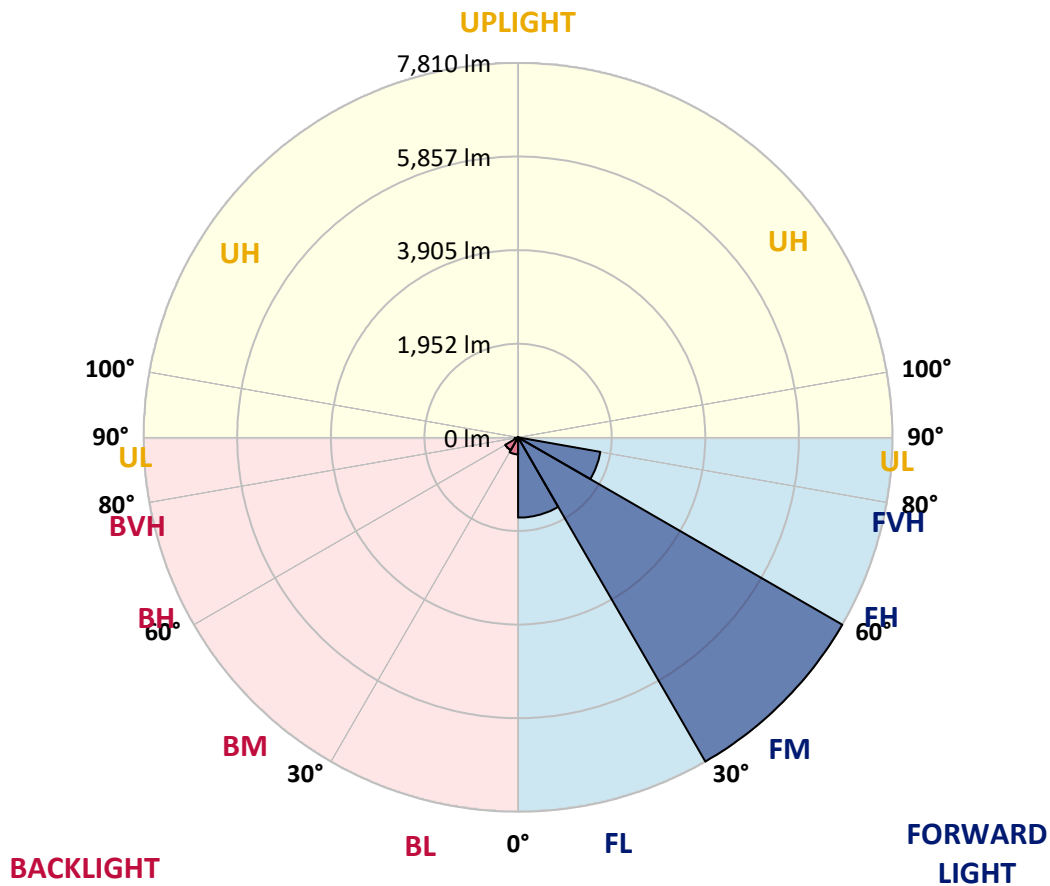


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1674.7	14.0			
FM (30°-60°)	7809.8	65.2			
FH (60°-80°)	1741.5	14.5			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	355.0	3.0	B1/500		
BM (30°-60°)	308.9	2.6	B1/1000		
BH (60°-80°)	74.1	0.6	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8
2.5°	3605.5	3588.1	3614.7	3584.0	3531.8	3487.8	3430.5	3410.0	3317.9	3230.9	3147.0
5°	4043.5	4048.7	4040.5	3997.5	3923.8	3841.9	3726.3	3700.7	3540.0	3374.2	3195.1
7.5°	4152.0	4149.0	4166.4	4182.7	4170.5	4129.5	4003.6	3978.0	3778.5	3529.8	3268.8
10°	3817.4	3819.4	3855.2	3965.8	4102.9	4245.2	4225.7	4211.4	4015.9	3705.8	3350.7
12.5°	3344.5	3363.0	3400.8	3558.4	3790.8	4114.2	4314.8	4329.1	4233.9	3899.2	3446.9
15°	3139.9	3144.0	3174.7	3269.8	3442.8	3841.9	4276.9	4316.8	4416.1	4093.7	3551.3
17.5°	3134.7	3139.9	3153.2	3195.1	3307.7	3628.0	4155.1	4224.7	4553.2	4302.5	3676.1
20°	3327.2	3324.1	3314.9	3292.4	3341.5	3557.4	4042.5	4119.3	4627.9	4506.1	3802.0
22.5°	3676.1	3672.0	3631.1	3538.0	3498.1	3621.9	3987.3	4056.9	4673.0	4687.3	3905.4
25°	4078.3	4107.0	4030.2	3889.0	3790.8	3786.7	4036.4	4085.5	4711.8	4848.0	3976.0
27.5°	4519.4	4528.6	4463.2	4304.5	4162.3	4050.7	4178.6	4215.5	4754.8	4991.2	4015.9
30°	5003.5	5000.4	4925.7	4741.5	4568.6	4407.9	4418.1	4432.4	4855.1	5155.0	4059.9
32.5°	5608.4	5621.7	5488.6	5237.9	5030.1	4808.0	4731.3	4733.3	5036.3	5365.8	4126.4
35°	6430.2	6397.4	6221.4	5864.2	5510.1	5270.6	5139.6	5128.4	5315.7	5649.3	4242.1
37.5°	7213.1	7216.2	7031.9	6638.9	6191.7	5814.1	5628.8	5598.1	5708.7	6042.3	4434.5
40°	7756.5	7766.8	7690.0	7484.3	7010.5	6476.2	6204.0	6172.3	6218.3	6539.7	4686.3
42.5°	8044.1	8072.8	8094.3	8142.4	7783.1	7303.2	6884.6	6881.5	6833.4	7106.7	4977.9
45°	8055.4	8098.4	8229.3	8557.9	8598.8	8246.7	7791.3	7722.8	7537.5	7713.5	5238.9
47.5°	7610.2	7709.4	7987.8	8638.7	9068.6	9185.2	8733.9	8691.9	8172.0	8193.5	5434.4
50°	6572.4	6675.8	7188.5	8224.2	9187.3	9930.3	9768.6	9681.6	8702.2	8510.8	5528.5
52.5°	5508.1	5602.2	5950.2	7237.7	8695.0	10164.6	10640.5	10537.2	9178.1	8621.3	5489.6
55°	3832.7	3958.6	4298.4	5409.8	7561.1	9708.2	10929.1	10907.6	9602.8	8551.7	5429.3
57.5°	1879.0	2003.9	2342.6	3335.3	5601.2	8476.0	10488.0	10601.6	9856.6	8477.0	5380.1
60°	785.0	836.1	952.8	1463.5	3133.7	6405.6	9492.3	9649.9	9701.0	8375.7	5375.0
62.5°	455.4	463.6	475.9	606.9	1218.9	3672.0	7874.2	8098.4	8883.3	8241.6	5294.2
65°	343.9	346.9	341.8	372.5	503.5	1392.9	5689.2	5994.2	7414.7	7717.6	4974.9
67.5°	282.5	282.5	269.2	275.3	316.2	521.9	3140.9	3566.6	5486.6	6343.2	4108.0
70°	225.2	230.3	224.1	215.9	226.2	288.6	1117.6	1385.7	3195.1	3745.7	2395.8
72.5°	170.9	170.9	181.1	175.0	167.8	181.1	389.9	438.0	1282.3	1561.7	864.8
75°	132.0	136.1	143.3	137.1	126.9	107.5	187.3	198.5	386.9	363.3	193.4
77.5°	67.5	68.6	91.1	100.3	94.2	65.5	81.9	90.1	125.9	112.6	71.6
80°	40.9	43.0	51.2	78.8	62.4	34.8	33.8	35.8	59.4	51.2	29.7
82.5°	17.4	18.4	28.7	28.7	25.6	13.3	13.3	13.3	28.7	26.6	12.3
85°	0.0	0.0	5.1	4.1	4.1	5.1	5.1	5.1	7.2	10.2	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	3.1
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°	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8	3092.8
2.5°	3092.8	3027.3	2939.3	2859.4	2752.0	2691.6	2607.7	2539.1	2480.8	2462.4	2454.2
5°	3093.8	2981.2	2792.9	2604.6	2373.3	2191.1	2003.9	1855.5	1733.7	1694.8	1684.6
7.5°	3114.3	2948.5	2643.5	2301.7	1914.8	1595.5	1310.0	1054.1	935.4	895.5	887.3
10°	3141.9	2920.9	2470.5	1938.4	1382.6	972.3	688.8	525.0	447.2	404.3	410.4
12.5°	3177.7	2898.3	2279.2	1545.4	914.9	534.2	378.7	317.3	300.9	292.7	288.6
15°	3225.8	2871.7	2041.7	1155.4	560.8	343.9	291.7	275.3	269.2	265.1	264.0
17.5°	3275.0	2841.0	1800.2	812.6	372.5	285.5	262.0	253.8	249.7	246.6	245.6
20°	3327.2	2788.8	1516.7	559.8	293.7	256.9	241.5	232.3	227.2	222.1	221.1
22.5°	3349.7	2704.9	1245.5	392.0	261.0	236.4	217.0	205.7	199.6	195.5	195.5
25°	3328.2	2568.8	965.1	297.8	237.4	213.9	194.5	182.2	177.1	173.0	173.0
27.5°	3270.9	2393.8	704.1	246.6	211.8	190.4	171.9	160.7	156.6	154.5	154.5
30°	3207.4	2172.7	496.4	211.8	183.2	165.8	150.4	143.3	142.3	140.2	140.2
32.5°	3153.2	1966.0	341.8	186.3	161.7	144.3	134.1	131.0	132.0	130.0	131.0
35°	3123.5	1763.4	253.8	165.8	144.3	127.9	122.8	122.8	122.8	121.8	121.8
37.5°	3135.8	1563.8	206.7	151.5	129.0	116.7	111.6	113.6	115.6	115.6	115.6
40°	3197.2	1386.7	183.2	138.2	115.6	106.4	102.3	105.4	108.5	110.5	110.5
42.5°	3275.0	1243.5	165.8	126.9	106.4	96.2	94.2	97.2	100.3	102.3	102.3
45°	3324.1	1099.2	148.4	112.6	97.2	84.9	84.9	89.0	88.0	89.0	89.0
47.5°	3346.6	984.5	131.0	97.2	82.9	73.7	74.7	76.8	74.7	76.8	76.8
50°	3291.3	868.9	115.6	80.9	68.6	64.5	66.5	65.5	65.5	69.6	69.6
52.5°	3190.0	782.9	102.3	68.6	58.3	57.3	59.4	55.3	56.3	56.3	55.3
55°	3115.3	733.8	91.1	59.4	50.1	51.2	50.1	43.0	38.9	34.8	33.8
57.5°	3078.5	714.3	82.9	53.2	45.0	45.0	40.9	29.7	22.5	17.4	15.4
60°	3070.3	690.8	74.7	46.1	39.9	37.9	29.7	17.4	11.3	8.2	7.2
62.5°	2992.5	633.5	67.5	36.8	34.8	30.7	18.4	10.2	6.1	4.1	3.1
65°	2737.7	520.9	60.4	28.7	26.6	22.5	11.3	6.1	3.1	1.0	0.0
67.5°	2177.8	369.5	53.2	21.5	18.4	14.3	7.2	4.1	1.0	0.0	0.0
70°	1255.7	199.6	44.0	15.4	12.3	9.2	5.1	2.0	0.0	0.0	0.0
72.5°	419.6	93.1	33.8	10.2	9.2	7.2	3.1	1.0	0.0	0.0	0.0
75°	92.1	55.3	22.5	7.2	6.1	5.1	2.0	0.0	0.0	0.0	0.0
77.5°	34.8	38.9	11.3	5.1	4.1	3.1	1.0	0.0	0.0	0.0	0.0
80°	13.3	25.6	5.1	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.2	10.2	3.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	5.1	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	1.0	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)