

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: P636759

Luminaire Tested: GWS-SA4B-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636759
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12138.1 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

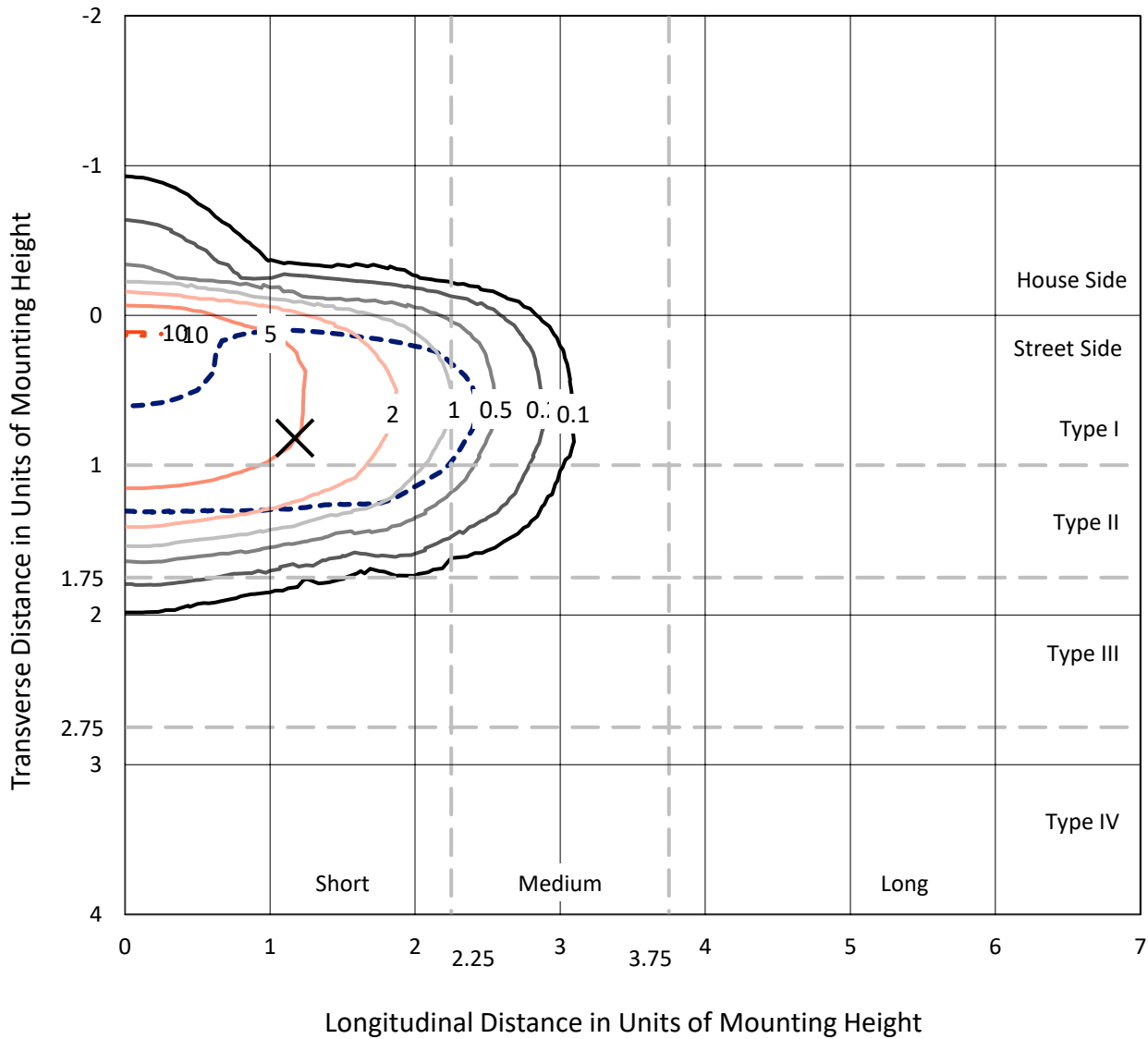
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

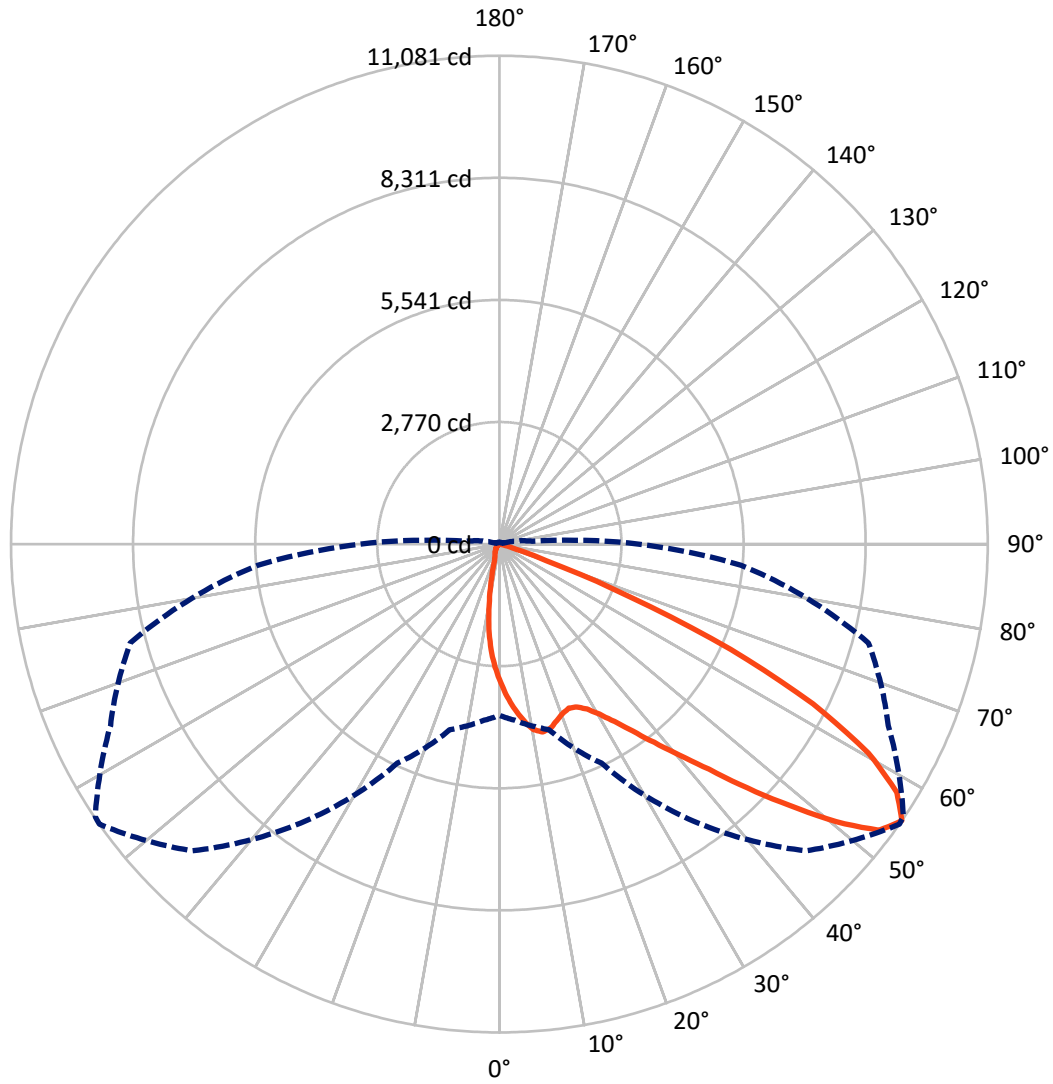
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 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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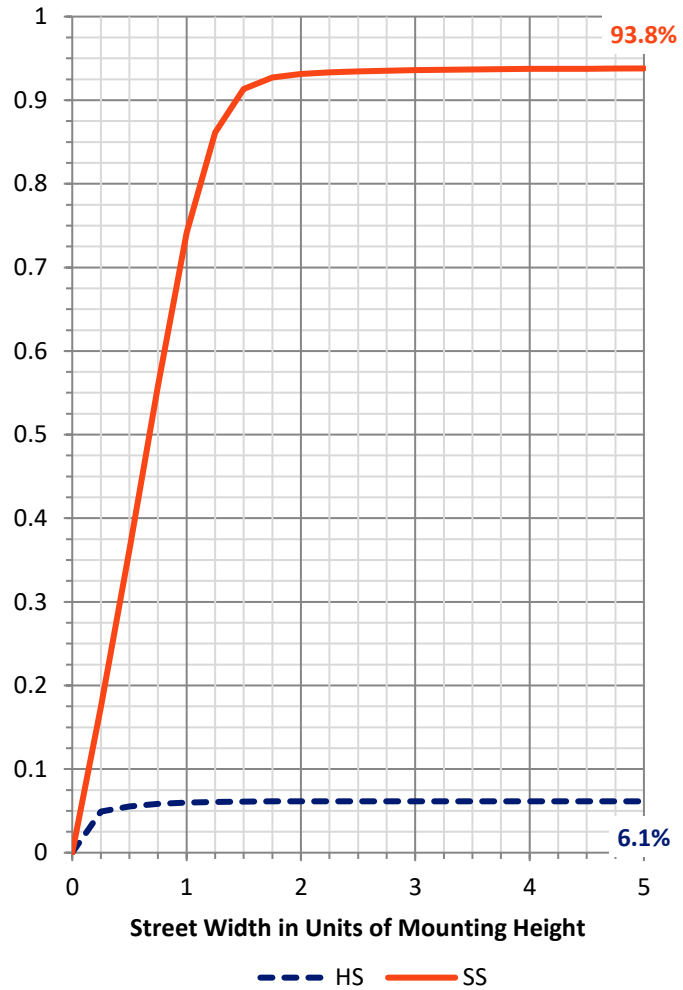
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	749.0	0.0	749.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	11389.1	0.0	11389.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	12138.1	0.0	12138.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	2.3
10°-20°	668.1	5.5
20°-30°	1112.7	9.2
30°-40°	1896.1	15.6
40°-50°	3095.1	25.5
50°-60°	3240.4	26.7
60°-70°	1634.4	13.5
70°-80°	206.4	1.7
80°-90°	7.8	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°	12138.1	100.0
0°-180°	12138.1	100.0

Coefficient of Utilization

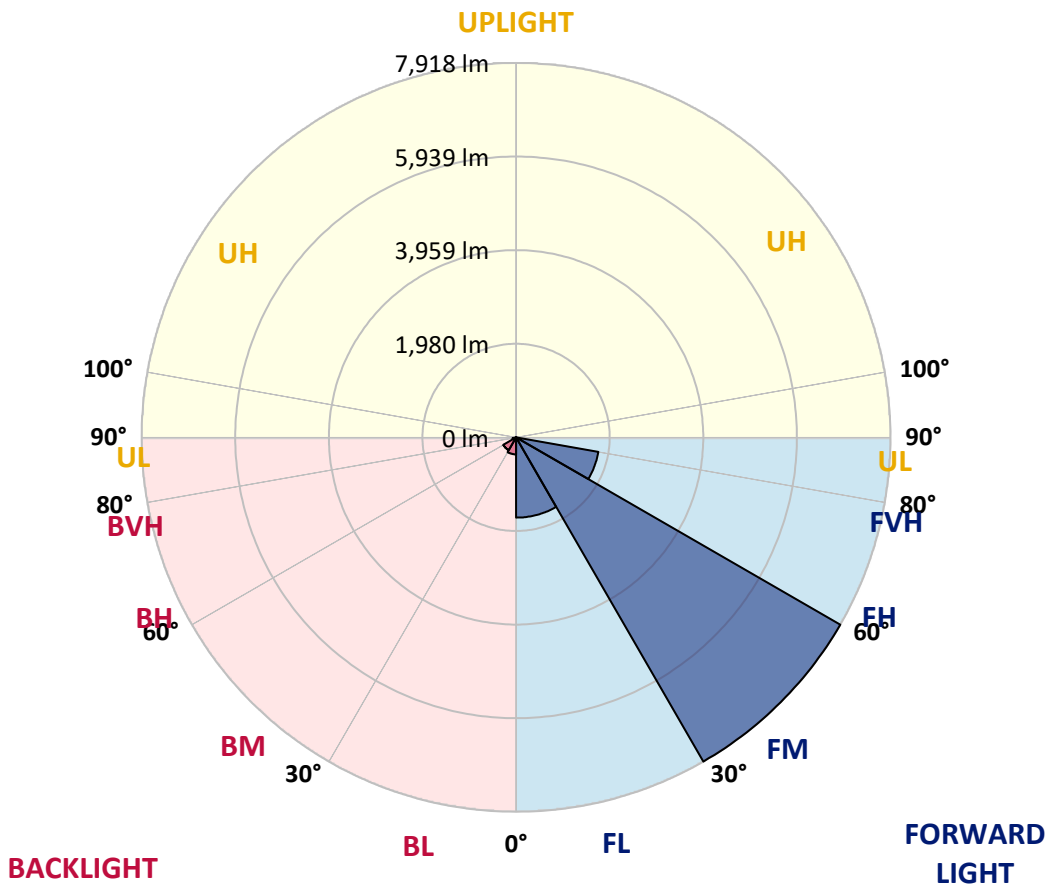


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.0	14.0			
FM (30°-60°)	7918.4	65.2			
FH (60°-80°)	1765.7	14.5			G1/1800
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	360.0	3.0	B1/500		
BM (30°-60°)	313.1	2.6	B1/1000		
BH (60°-80°)	75.1	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°	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8
2.5°	3655.6	3638.0	3665.0	3633.8	3580.9	3536.3	3478.2	3457.4	3364.1	3275.9	3190.8
5°	4099.7	4104.9	4096.6	4053.1	3978.3	3895.3	3778.1	3752.1	3589.2	3421.1	3239.5
7.5°	4209.7	4206.6	4224.3	4240.9	4228.4	4186.9	4059.3	4033.3	3831.0	3578.9	3314.2
10°	3870.4	3872.5	3908.8	4020.9	4159.9	4304.2	4284.5	4269.9	4071.7	3757.3	3397.3
12.5°	3391.0	3409.7	3448.1	3607.9	3843.5	4171.3	4374.7	4389.3	4292.8	3953.4	3494.8
15°	3183.5	3187.7	3218.8	3315.3	3490.6	3895.3	4336.3	4376.8	4477.5	4150.6	3600.6
17.5°	3178.3	3183.5	3197.0	3239.5	3353.7	3678.5	4212.9	4283.4	4616.5	4362.3	3727.2
20°	3373.4	3370.3	3360.9	3338.1	3387.9	3606.9	4098.7	4176.5	4692.2	4568.8	3854.9
22.5°	3727.2	3723.1	3681.6	3587.2	3546.7	3672.2	4042.7	4113.2	4737.9	4752.4	3959.7
25°	4135.0	4164.1	4086.3	3943.1	3843.5	3839.3	4092.5	4142.3	4777.3	4915.3	4031.3
27.5°	4582.3	4591.6	4525.2	4364.4	4220.1	4107.0	4236.7	4274.1	4820.9	5060.6	4071.7
30°	5073.1	5070.0	4994.2	4807.4	4632.1	4469.2	4479.5	4494.1	4922.6	5226.6	4116.4
32.5°	5686.3	5699.8	5564.9	5310.7	5100.0	4874.9	4797.0	4799.1	5106.3	5440.4	4183.8
35°	6519.5	6486.3	6307.9	5945.7	5586.7	5343.9	5211.1	5199.7	5389.5	5727.8	4301.1
37.5°	7313.3	7316.5	7129.7	6731.2	6277.8	5894.9	5707.1	5675.9	5788.0	6126.3	4496.1
40°	7864.3	7874.7	7796.9	7588.3	7107.9	6566.2	6290.2	6258.1	6304.8	6630.6	4751.4
42.5°	8155.9	8185.0	8206.8	8255.5	7891.3	7404.7	6980.3	6977.1	6928.4	7205.4	5047.1
45°	8167.3	8210.9	8343.7	8676.8	8718.3	8361.4	7899.6	7830.1	7642.3	7820.8	5311.7
47.5°	7716.0	7816.6	8098.8	8758.8	9194.6	9312.9	8855.3	8812.7	8285.6	8307.4	5509.9
50°	6663.8	6768.6	7288.4	8338.5	9315.0	10068.3	9904.4	9816.2	8823.1	8629.1	5605.4
52.5°	5584.6	5680.1	6032.9	7338.3	8815.9	10305.9	10788.4	10683.6	9305.6	8741.2	5565.9
55°	3886.0	4013.6	4358.1	5485.0	7666.1	9843.1	11081.0	11059.3	9736.3	8670.6	5504.7
57.5°	1905.1	2031.7	2375.2	3381.7	5679.1	8593.8	10633.8	10749.0	9993.6	8594.8	5454.9
60°	795.9	847.8	966.1	1483.8	3177.3	6494.6	9624.2	9784.0	9835.9	8492.1	5449.7
62.5°	461.8	470.1	482.5	615.3	1235.8	3723.1	7983.7	8210.9	9006.8	8356.2	5367.8
65°	348.6	351.8	346.6	377.7	510.5	1412.2	5768.3	6077.5	7517.8	7824.9	5044.0
67.5°	286.4	286.4	272.9	279.1	320.6	529.2	3184.5	3616.2	5562.8	6431.3	4165.1
70°	228.3	233.5	227.2	218.9	229.3	292.6	1133.1	1405.0	3239.5	3797.8	2429.1
72.5°	173.3	173.3	183.7	177.4	170.2	183.7	395.3	444.1	1300.2	1583.5	876.8
75°	133.9	138.0	145.3	139.0	128.7	109.0	189.9	201.3	392.2	368.4	196.1
77.5°	68.5	69.5	92.4	101.7	95.5	66.4	83.0	91.3	127.6	114.1	72.6
80°	41.5	43.6	51.9	79.9	63.3	35.3	34.2	36.3	60.2	51.9	30.1
82.5°	17.6	18.7	29.1	29.1	25.9	13.5	13.5	13.5	29.1	27.0	12.5
85°	0.0	0.0	5.2	4.2	4.2	5.2	5.2	5.2	7.3	10.4	6.2
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°	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8	3135.8
2.5°	3135.8	3069.4	2980.1	2899.2	2790.2	2729.0	2643.9	2574.4	2515.3	2496.6	2488.3
5°	3136.8	3022.7	2831.7	2640.8	2406.3	2221.6	2031.7	1881.3	1757.8	1718.3	1708.0
7.5°	3157.6	2989.5	2680.2	2333.7	1941.4	1617.7	1328.2	1068.8	948.4	907.9	899.6
10°	3185.6	2961.4	2504.9	1965.3	1401.9	985.8	698.3	532.3	453.5	409.9	416.1
12.5°	3221.9	2938.6	2310.8	1566.8	927.7	541.7	383.9	321.7	305.1	296.8	292.6
15°	3270.7	2911.6	2070.1	1171.5	568.6	348.6	295.7	279.1	272.9	268.8	267.7
17.5°	3320.5	2880.5	1825.2	823.9	377.7	289.5	265.6	257.3	253.2	250.1	249.0
20°	3373.4	2827.6	1537.8	567.6	297.8	260.4	244.9	235.5	230.4	225.2	224.1
22.5°	3396.2	2742.5	1262.8	397.4	264.6	239.7	220.0	208.6	202.3	198.2	198.2
25°	3374.4	2604.5	978.5	302.0	240.7	216.9	197.2	184.7	179.5	175.4	175.4
27.5°	3316.3	2427.1	713.9	250.1	214.8	193.0	174.3	162.9	158.8	156.7	156.7
30°	3252.0	2202.9	503.3	214.8	185.7	168.1	152.5	145.3	144.2	142.2	142.2
32.5°	3197.0	1993.3	346.6	188.9	163.9	146.3	135.9	132.8	133.9	131.8	132.8
35°	3166.9	1787.9	257.3	168.1	146.3	129.7	124.5	124.5	124.5	123.5	123.5
37.5°	3179.4	1585.5	209.6	153.6	130.7	118.3	113.1	115.2	117.3	117.3	117.3
40°	3241.6	1406.0	185.7	140.1	117.3	107.9	103.8	106.9	110.0	112.1	112.1
42.5°	3320.5	1260.7	168.1	128.7	107.9	97.5	95.5	98.6	101.7	103.8	103.8
45°	3370.3	1114.4	150.5	114.1	98.6	86.1	86.1	90.3	89.2	90.3	90.3
47.5°	3393.1	998.2	132.8	98.6	84.0	74.7	75.7	77.8	75.7	77.8	77.8
50°	3337.1	881.0	117.3	82.0	69.5	65.4	67.4	66.4	66.4	70.6	70.6
52.5°	3234.4	793.8	103.8	69.5	59.1	58.1	60.2	56.0	57.1	57.1	56.0
55°	3158.6	744.0	92.4	60.2	50.8	51.9	50.8	43.6	39.4	35.3	34.2
57.5°	3121.2	724.3	84.0	54.0	45.7	45.7	41.5	30.1	22.8	17.6	15.6
60°	3112.9	700.4	75.7	46.7	40.5	38.4	30.1	17.6	11.4	8.3	7.3
62.5°	3034.1	642.3	68.5	37.4	35.3	31.1	18.7	10.4	6.2	4.2	3.1
65°	2775.7	528.2	61.2	29.1	27.0	22.8	11.4	6.2	3.1	1.0	0.0
67.5°	2208.1	374.6	54.0	21.8	18.7	14.5	7.3	4.2	1.0	0.0	0.0
70°	1273.2	202.3	44.6	15.6	12.5	9.3	5.2	2.1	0.0	0.0	0.0
72.5°	425.4	94.4	34.2	10.4	9.3	7.3	3.1	1.0	0.0	0.0	0.0
75°	93.4	56.0	22.8	7.3	6.2	5.2	2.1	0.0	0.0	0.0	0.0
77.5°	35.3	39.4	11.4	5.2	4.2	3.1	1.0	0.0	0.0	0.0	0.0
80°	13.5	25.9	5.2	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.3	10.4	3.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	5.2	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)