

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: P633404

Luminaire Tested: GWS-SA2E-760-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633404
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-SA2E-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: 12344.8 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

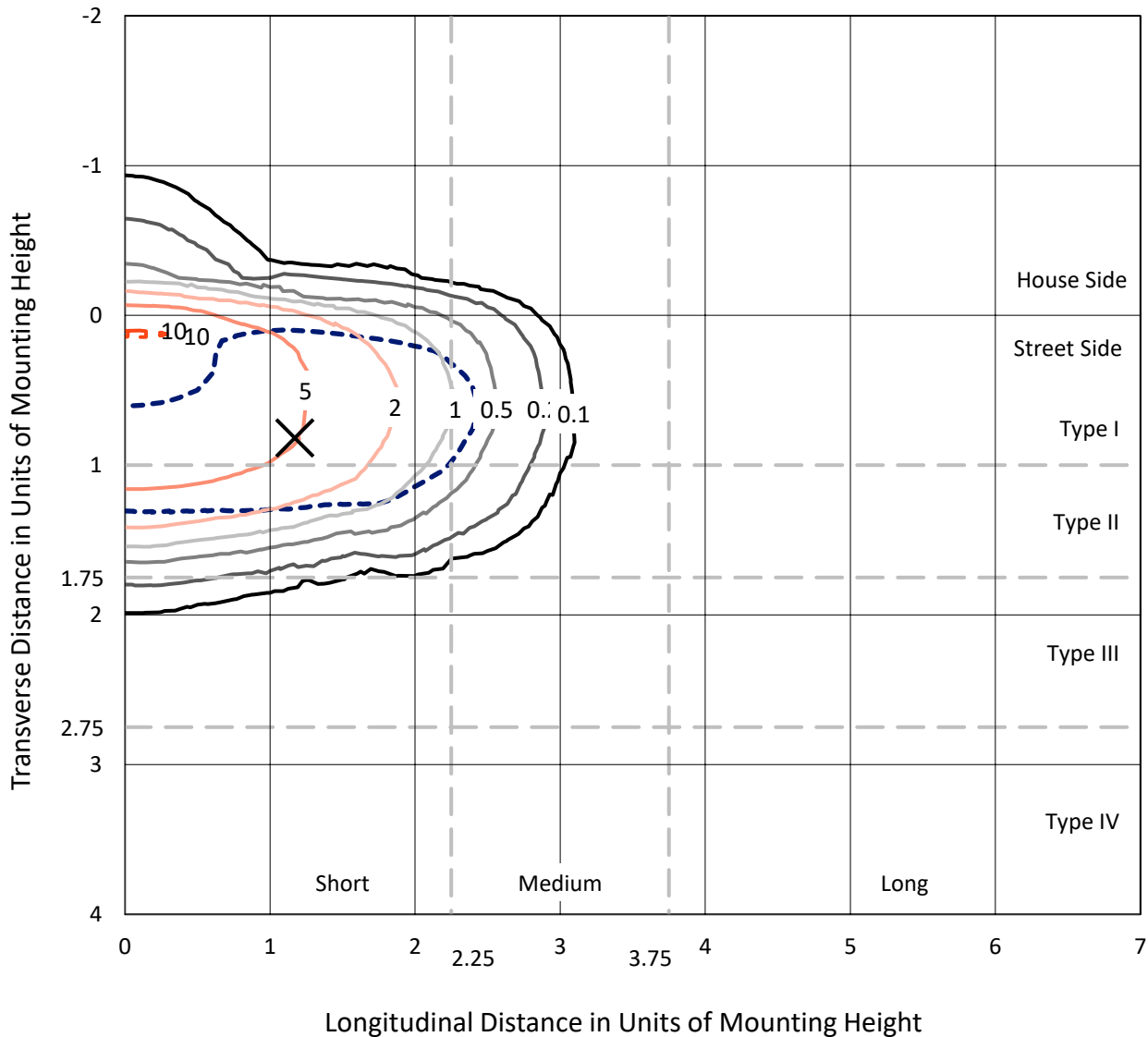
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

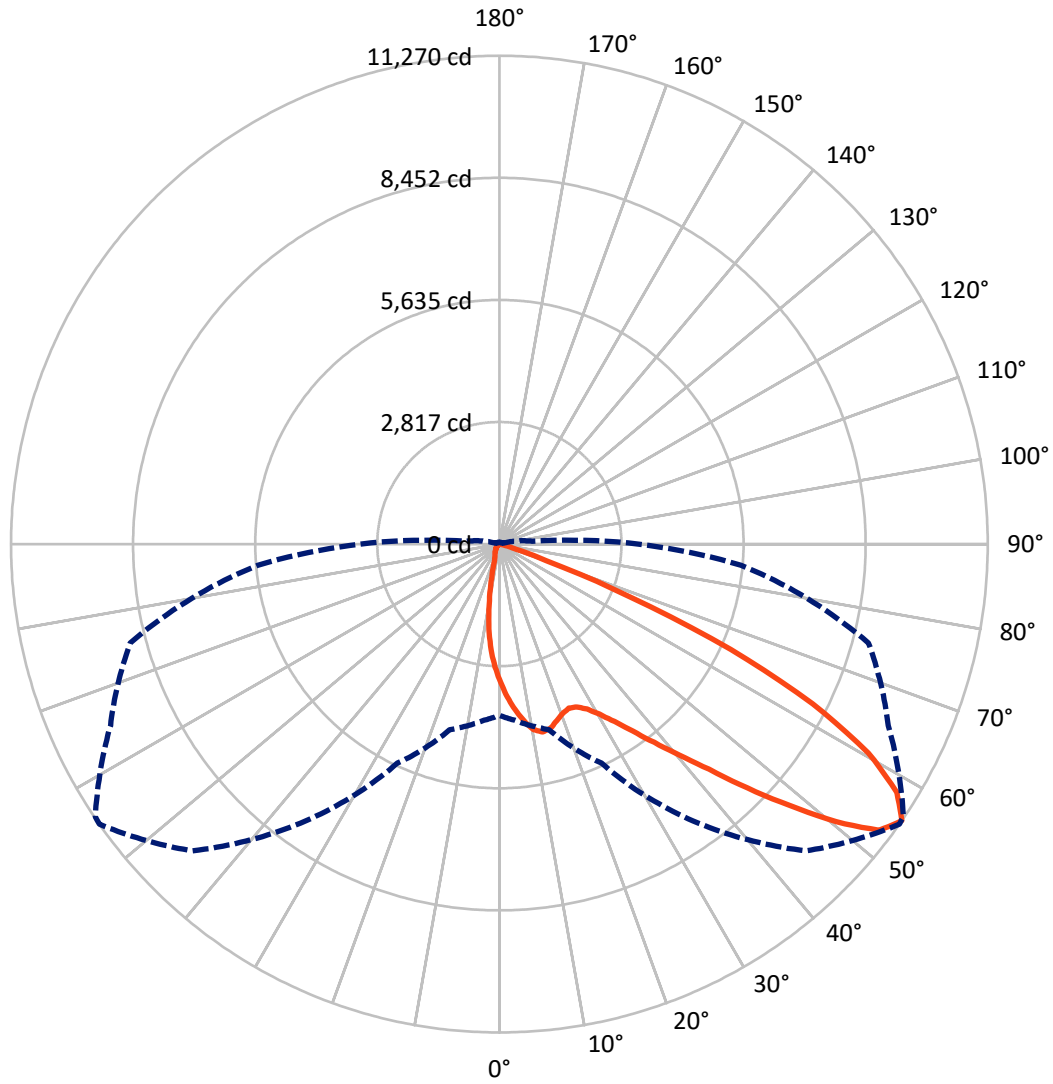
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.4 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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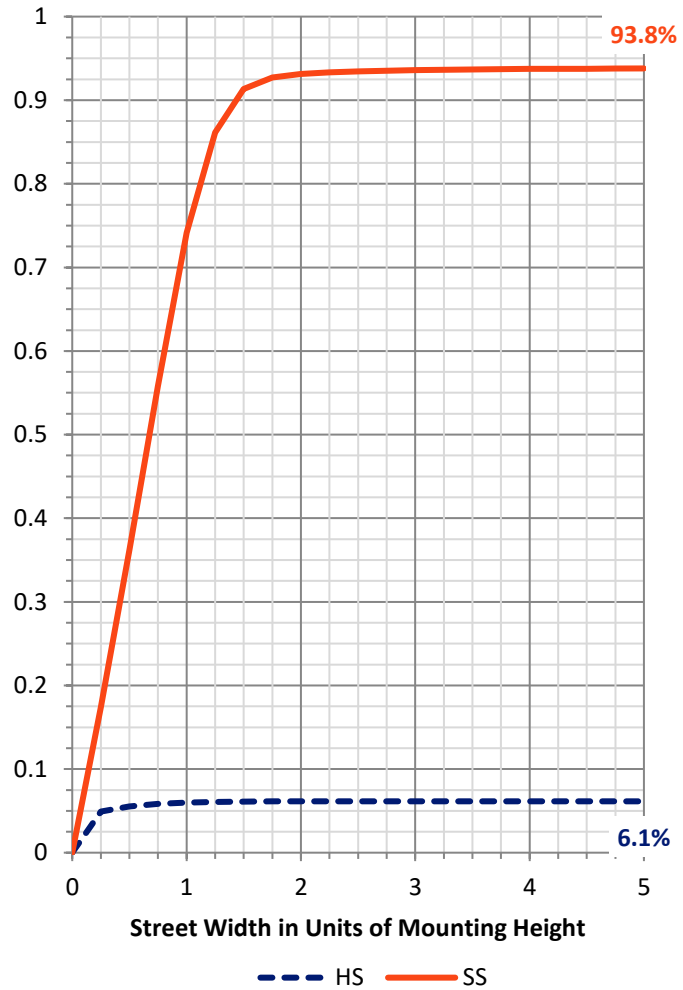
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	761.7	0.0	761.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	11583.1	0.0	11583.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	12344.8	0.0	12344.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	2.3
10°-20°	679.5	5.5
20°-30°	1131.6	9.2
30°-40°	1928.4	15.6
40°-50°	3147.8	25.5
50°-60°	3295.5	26.7
60°-70°	1662.2	13.5
70°-80°	210.0	1.7
80°-90°	8.0	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°	12344.8	100.0
0°-180°	12344.8	100.0

Coefficient of Utilization



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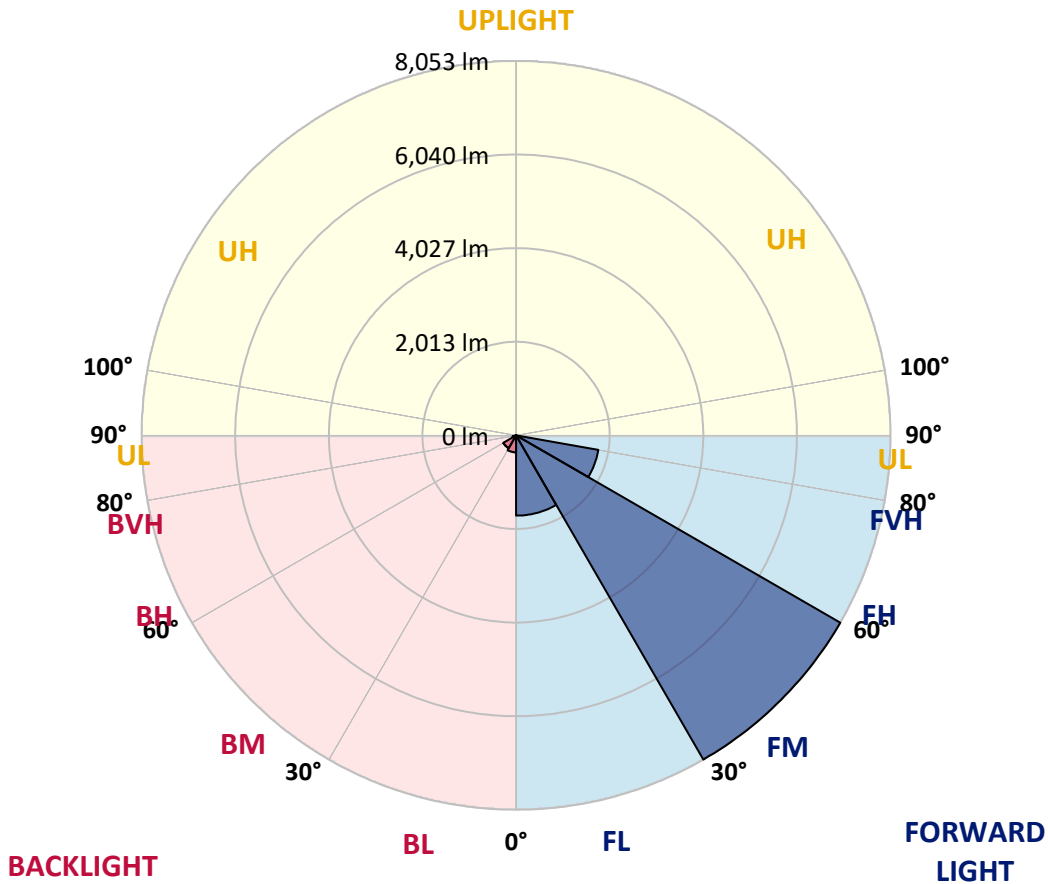
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1726.9	14.0			
FM (30°-60°)	8053.2	65.2			
FH (60°-80°)	1795.8	14.5			G1/1800
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	366.1	3.0	B1/500		
BM (30°-60°)	318.5	2.6	B1/1000		
BH (60°-80°)	76.4	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°	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2
2.5°	3717.9	3699.9	3727.4	3695.7	3641.9	3596.5	3537.4	3516.3	3421.3	3331.6	3245.1
5°	4169.6	4174.8	4166.4	4122.1	4046.1	3961.7	3842.4	3816.0	3650.3	3479.4	3294.7
7.5°	4281.4	4278.3	4296.2	4313.1	4300.4	4258.2	4128.4	4102.0	3896.2	3639.8	3370.7
10°	3936.3	3938.4	3975.4	4089.4	4230.8	4377.5	4357.4	4342.6	4141.1	3821.3	3455.1
12.5°	3448.8	3467.8	3506.8	3669.3	3908.9	4242.4	4449.2	4464.0	4365.9	4020.8	3554.3
15°	3237.7	3241.9	3273.6	3371.7	3550.1	3961.7	4410.2	4451.3	4553.7	4221.3	3662.0
17.5°	3232.4	3237.7	3251.4	3294.7	3410.8	3741.1	4284.6	4356.4	4695.1	4436.6	3790.7
20°	3430.8	3427.7	3418.2	3395.0	3445.6	3668.3	4168.5	4247.7	4772.2	4646.6	3920.5
22.5°	3790.7	3786.5	3744.3	3648.2	3607.1	3734.8	4111.5	4183.3	4818.6	4833.4	4027.1
25°	4205.4	4235.0	4155.8	4010.2	3908.9	3904.7	4162.2	4212.8	4858.7	4999.0	4099.9
27.5°	4660.3	4669.8	4602.2	4438.7	4292.0	4177.0	4308.9	4346.9	4903.0	5146.8	4141.1
30°	5159.5	5156.3	5079.2	4889.3	4710.9	4545.3	4555.8	4570.6	5006.4	5315.6	4186.4
32.5°	5783.1	5796.9	5659.7	5401.1	5186.9	4957.9	4878.7	4880.8	5193.2	5533.0	4255.0
35°	6630.6	6596.8	6415.3	6047.0	5681.8	5434.9	5299.8	5288.2	5481.3	5825.4	4374.3
37.5°	7437.9	7441.1	7251.1	6845.9	6384.7	5995.3	5804.3	5772.6	5886.6	6230.6	4572.7
40°	7998.3	8008.8	7929.7	7717.5	7228.9	6678.1	6397.3	6364.6	6412.1	6743.5	4832.3
42.5°	8294.8	8324.4	8346.5	8396.1	8025.7	7530.8	7099.1	7096.0	7046.4	7328.1	5133.1
45°	8306.4	8350.7	8485.8	8824.6	8866.8	8503.8	8034.1	7963.4	7772.4	7953.9	5402.2
47.5°	7847.4	7949.7	8236.8	8907.9	9351.2	9471.5	9006.1	8962.8	8426.7	8448.9	5603.7
50°	6777.3	6883.8	7412.6	8480.5	9473.6	10239.8	10073.0	9983.3	8973.4	8776.0	5700.8
52.5°	5679.7	5776.8	6135.6	7463.2	8966.0	10481.4	10972.1	10865.6	9464.1	8890.0	5660.7
55°	3952.2	4082.0	4432.3	5578.4	7796.7	10010.8	11269.7	11247.6	9902.1	8818.2	5598.5
57.5°	1937.6	2066.3	2415.6	3439.3	5775.8	8740.1	10814.9	10932.0	10163.8	8741.2	5547.8
60°	809.4	862.2	982.5	1509.1	3231.4	6605.2	9788.1	9950.6	10003.4	8636.7	5542.5
62.5°	469.6	478.1	490.7	625.8	1256.9	3786.5	8119.6	8350.7	9160.2	8498.5	5459.2
65°	354.6	357.8	352.5	384.1	519.2	1436.3	5866.5	6181.0	7645.8	7958.2	5129.9
67.5°	291.3	291.3	277.5	283.9	326.1	538.2	3238.8	3677.8	5657.6	6540.9	4236.0
70°	232.2	237.4	231.1	222.7	233.2	297.6	1152.4	1428.9	3294.7	3862.5	2470.5
72.5°	176.2	176.2	186.8	180.5	173.1	186.8	402.1	451.7	1322.3	1610.4	891.7
75°	136.1	140.4	147.7	141.4	130.9	110.8	193.1	204.7	398.9	374.6	199.5
77.5°	69.7	70.7	93.9	103.4	97.1	67.5	84.4	92.9	129.8	116.1	73.9
80°	42.2	44.3	52.8	81.3	64.4	35.9	34.8	36.9	61.2	52.8	30.6
82.5°	17.9	19.0	29.5	29.5	26.4	13.7	13.7	13.7	29.5	27.4	12.7
85°	0.0	0.0	5.3	4.2	4.2	5.3	5.3	5.3	7.4	10.6	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	3.2
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°	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2	3189.2
2.5°	3189.2	3121.6	3030.9	2948.6	2837.8	2775.5	2689.0	2618.2	2558.1	2539.1	2530.7
5°	3190.2	3074.1	2880.0	2685.8	2447.3	2259.4	2066.3	1913.3	1787.7	1747.6	1737.1
7.5°	3211.3	3040.4	2725.9	2373.4	1974.5	1645.2	1350.8	1087.0	964.6	923.4	915.0
10°	3239.8	3011.9	2547.5	1998.8	1425.7	1002.6	710.2	541.4	461.2	416.9	423.2
12.5°	3276.8	2988.7	2350.2	1593.5	943.5	550.9	390.5	327.1	310.3	301.8	297.6
15°	3326.4	2961.2	2105.4	1191.5	578.3	354.6	300.8	283.9	277.5	273.3	272.3
17.5°	3377.0	2929.6	1856.3	837.9	384.1	294.4	270.2	261.7	257.5	254.3	253.3
20°	3430.8	2875.7	1564.0	577.3	302.9	264.9	249.1	239.6	234.3	229.0	227.9
22.5°	3454.1	2789.2	1284.3	404.2	269.1	243.8	223.7	212.1	205.8	201.6	201.6
25°	3431.9	2648.9	995.2	307.1	244.8	220.6	200.5	187.8	182.6	178.3	178.3
27.5°	3372.8	2468.4	726.1	254.3	218.5	196.3	177.3	165.7	161.5	159.4	159.4
30°	3307.4	2240.4	511.8	218.5	188.9	171.0	155.1	147.7	146.7	144.6	144.6
32.5°	3251.4	2027.3	352.5	192.1	166.7	148.8	138.2	135.1	136.1	134.0	135.1
35°	3220.8	1818.3	261.7	171.0	148.8	131.9	126.6	126.6	126.6	125.6	125.6
37.5°	3233.5	1612.5	213.2	156.2	133.0	120.3	115.0	117.1	119.3	119.3	119.3
40°	3296.8	1430.0	188.9	142.5	119.3	109.8	105.5	108.7	111.9	114.0	114.0
42.5°	3377.0	1282.2	171.0	130.9	109.8	99.2	97.1	100.3	103.4	105.5	105.5
45°	3427.7	1133.4	153.0	116.1	100.3	87.6	87.6	91.8	90.8	91.8	91.8
47.5°	3450.9	1015.2	135.1	100.3	85.5	76.0	77.0	79.1	77.0	79.1	79.1
50°	3393.9	896.0	119.3	83.4	70.7	66.5	68.6	67.5	67.5	71.8	71.8
52.5°	3289.4	807.3	105.5	70.7	60.2	59.1	61.2	57.0	58.0	58.0	57.0
55°	3212.4	756.7	93.9	61.2	51.7	52.8	51.7	44.3	40.1	35.9	34.8
57.5°	3174.4	736.6	85.5	54.9	46.4	46.4	42.2	30.6	23.2	17.9	15.8
60°	3166.0	712.3	77.0	47.5	41.2	39.0	30.6	17.9	11.6	8.4	7.4
62.5°	3085.8	653.2	69.7	38.0	35.9	31.7	19.0	10.6	6.3	4.2	3.2
65°	2823.0	537.2	62.3	29.5	27.4	23.2	11.6	6.3	3.2	1.1	0.0
67.5°	2245.7	381.0	54.9	22.2	19.0	14.8	7.4	4.2	1.1	0.0	0.0
70°	1294.9	205.8	45.4	15.8	12.7	9.5	5.3	2.1	0.0	0.0	0.0
72.5°	432.7	96.0	34.8	10.6	9.5	7.4	3.2	1.1	0.0	0.0	0.0
75°	95.0	57.0	23.2	7.4	6.3	5.3	2.1	0.0	0.0	0.0	0.0
77.5°	35.9	40.1	11.6	5.3	4.2	3.2	1.1	0.0	0.0	0.0	0.0
80°	13.7	26.4	5.3	3.2	3.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	7.4	10.6	3.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	5.3	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)