

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: P633844

Luminaire Tested: GWS-SA2F-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633844
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13916 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

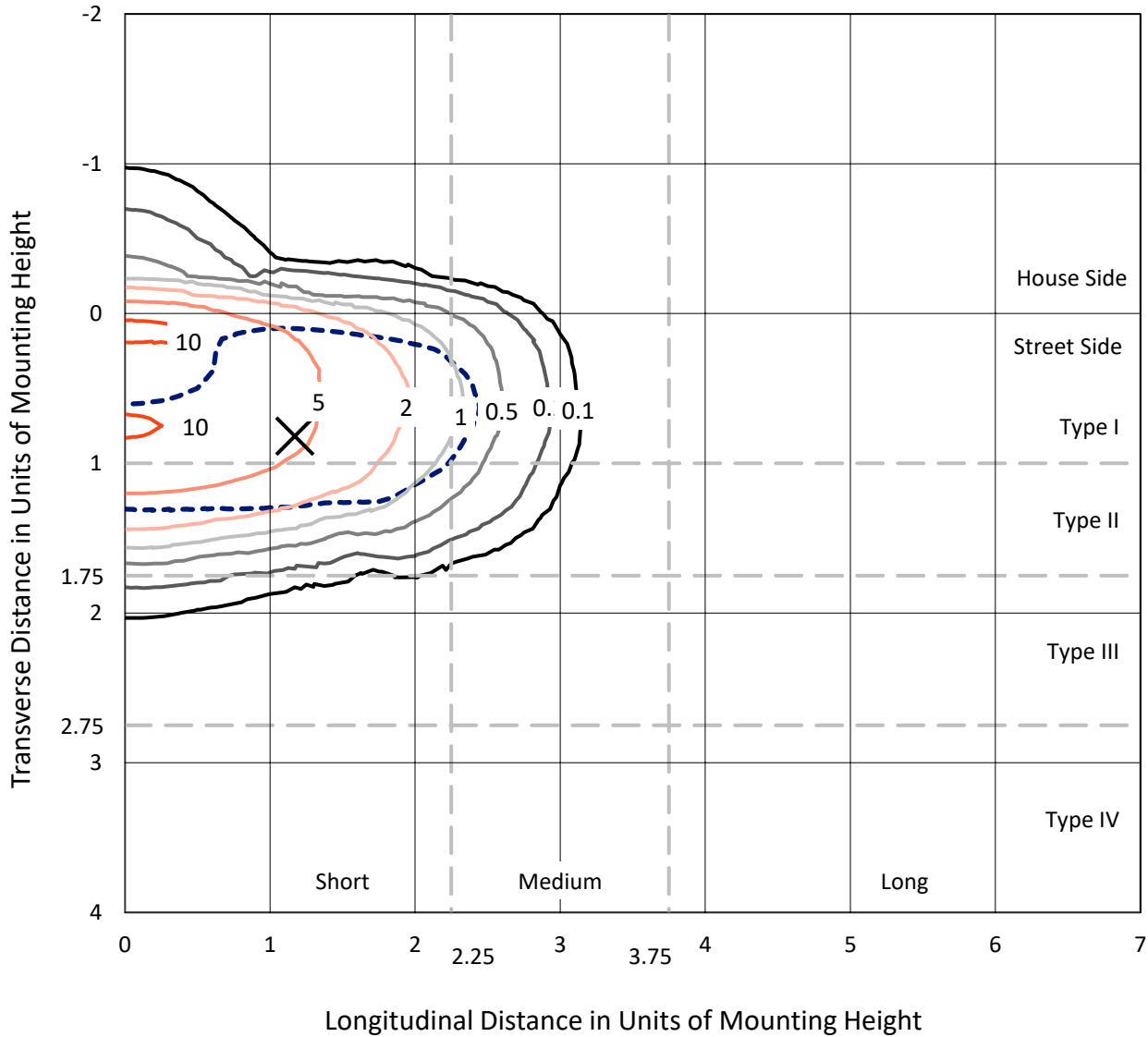
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

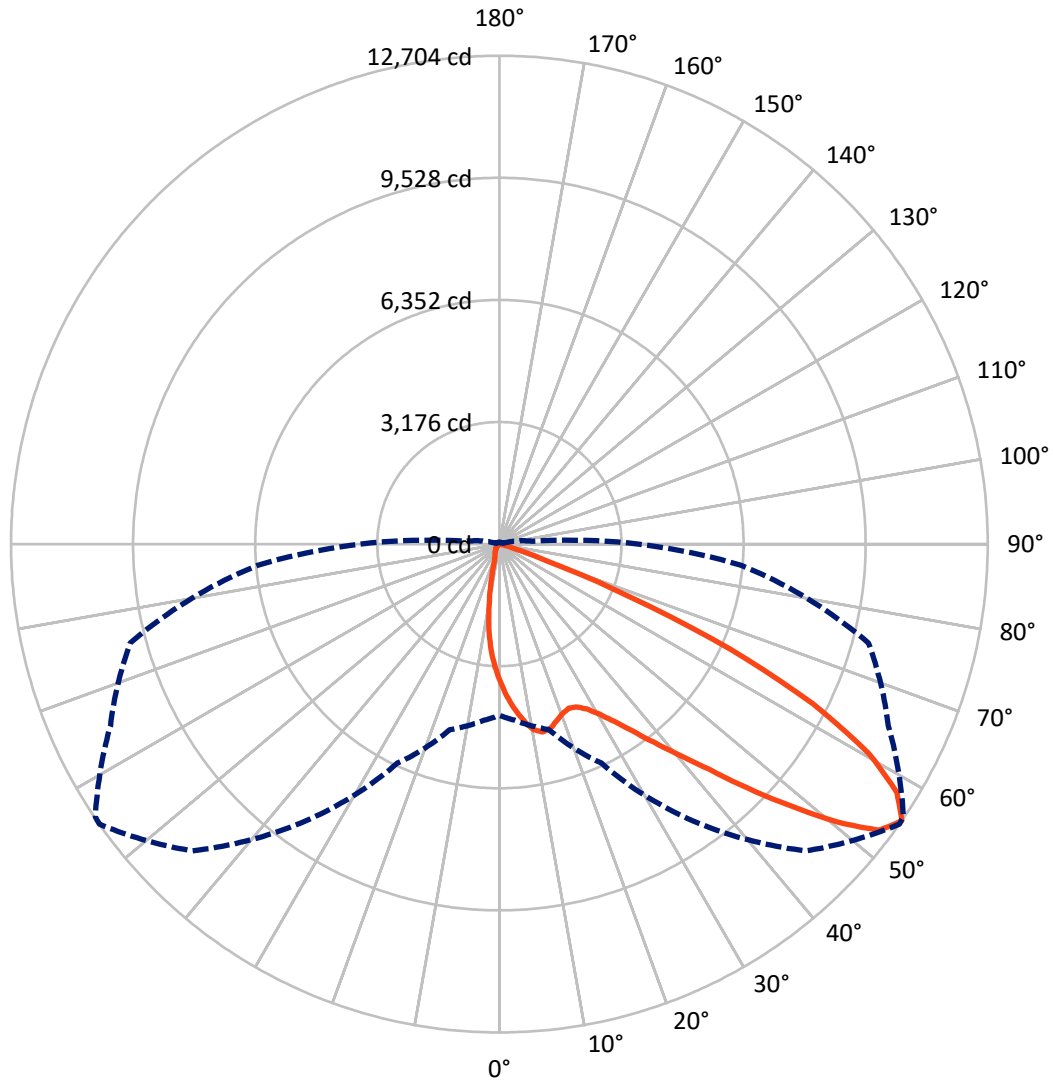
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.8 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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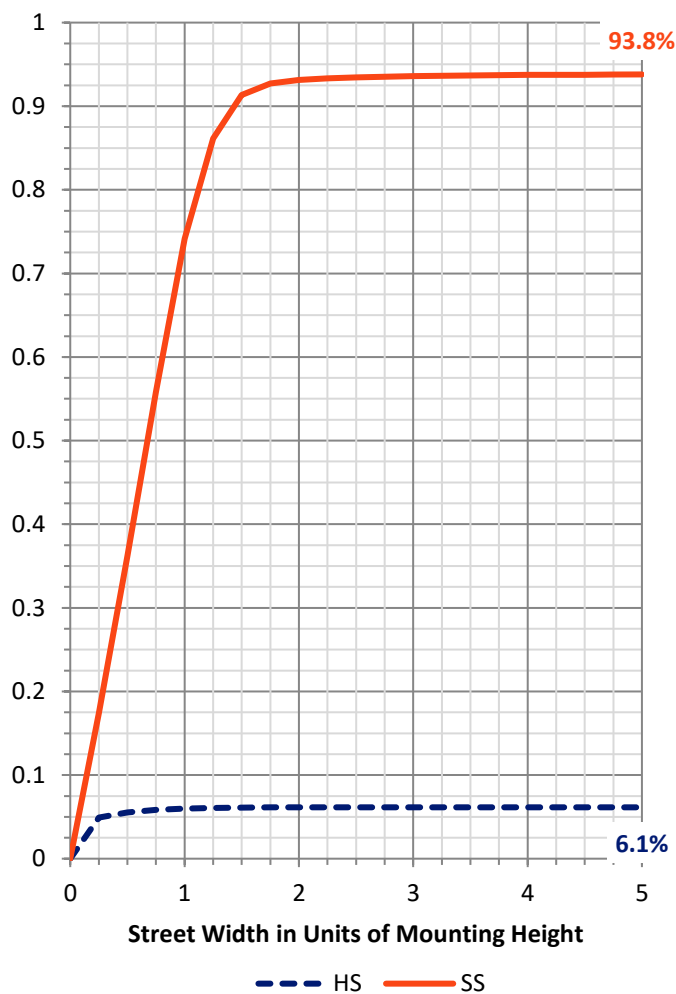
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.7	0.0	858.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	13057.3	0.0	13057.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	13916.0	0.0	13916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	2.3
10°-20°	766.0	5.5
20°-30°	1275.7	9.2
30°-40°	2173.8	15.6
40°-50°	3548.4	25.5
50°-60°	3715.0	26.7
60°-70°	1873.8	13.5
70°-80°	236.7	1.7
80°-90°	9.0	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°	13916.0	100.0
0°-180°	13916.0	100.0

Coefficient of Utilization



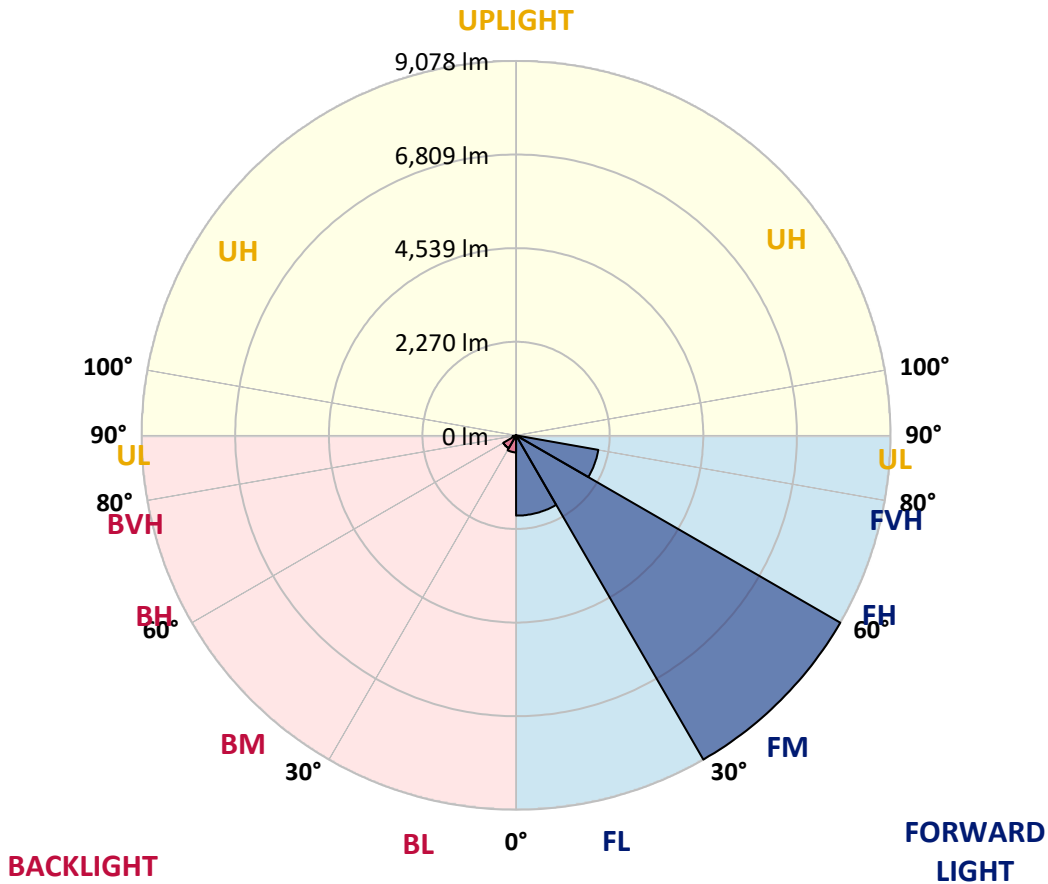
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1946.7	14.0			
FM (30°-60°)	9078.2	65.2			
FH (60°-80°)	2024.3	14.5			G2/5000
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	412.7	3.0	B1/500		
BM (30°-60°)	359.0	2.6	B1/1000		
BH (60°-80°)	86.1	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°	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1
2.5°	4191.1	4170.9	4201.8	4166.1	4105.4	4054.3	3987.7	3963.9	3856.8	3755.7	3658.1
5°	4700.3	4706.2	4696.7	4646.7	4561.1	4465.9	4331.5	4301.7	4115.0	3922.2	3714.0
7.5°	4826.4	4822.8	4843.0	4862.0	4847.8	4800.2	4653.9	4624.1	4392.1	4103.1	3799.7
10°	4437.3	4439.7	4481.4	4609.8	4769.2	4934.6	4912.0	4895.4	4668.1	4307.7	3894.9
12.5°	3887.7	3909.1	3953.2	4136.4	4406.4	4782.3	5015.5	5032.2	4921.5	4532.5	4006.7
15°	3649.8	3654.6	3690.3	3800.9	4001.9	4465.9	4971.5	5017.9	5133.3	4758.5	4128.0
17.5°	3643.9	3649.8	3665.3	3714.0	3844.9	4217.3	4829.9	4910.8	5292.7	5001.2	4273.2
20°	3867.5	3863.9	3853.2	3827.1	3884.2	4135.2	4699.1	4788.3	5379.5	5238.0	4419.5
22.5°	4273.2	4268.4	4220.8	4112.6	4066.2	4210.1	4634.8	4715.7	5431.9	5448.5	4539.7
25°	4740.7	4774.0	4684.8	4520.6	4406.4	4401.7	4691.9	4749.0	5477.1	5635.3	4621.7
27.5°	5253.4	5264.1	5188.0	5003.6	4838.2	4708.6	4857.3	4900.1	5527.0	5801.9	4668.1
30°	5816.1	5812.6	5725.7	5511.6	5310.5	5123.8	5135.7	5152.3	5643.6	5992.2	4719.3
32.5°	6519.2	6534.7	6380.0	6088.6	5847.1	5588.9	5499.7	5502.1	5854.2	6237.3	4796.6
35°	7474.5	7436.4	7231.8	6816.6	6405.0	6126.6	5974.4	5961.3	6179.0	6566.8	4931.0
37.5°	8384.6	8388.1	8174.0	7717.2	7197.3	6758.3	6543.0	6507.3	6635.8	7023.6	5154.7
40°	9016.2	9028.1	8938.9	8699.8	8149.0	7528.0	7211.6	7174.7	7228.2	7601.8	5447.3
42.5°	9350.5	9383.8	9408.8	9464.7	9047.2	8489.2	8002.7	7999.1	7943.2	8260.8	5786.4
45°	9363.6	9413.6	9565.9	9947.7	9995.3	9586.1	9056.7	8977.0	8761.7	8966.3	6089.7
47.5°	8846.1	8961.5	9285.1	10041.7	10541.4	10677.0	10152.4	10103.6	9499.2	9524.2	6317.0
50°	7639.8	7760.0	8356.0	9559.9	10679.4	11543.0	11355.1	11254.0	10115.5	9893.0	6426.4
52.5°	6402.6	6512.1	6916.5	8413.1	10107.1	11815.5	12368.6	12248.5	10668.7	10021.5	6381.2
55°	4455.2	4601.5	4996.5	6288.4	8789.0	11284.9	12704.1	12679.1	11162.4	9940.6	6311.0
57.5°	2184.2	2329.3	2723.1	3877.0	6510.9	9852.6	12191.4	12323.4	11457.4	9853.8	6253.9
60°	912.5	971.9	1107.6	1701.2	3642.7	7445.9	11033.9	11217.1	11276.6	9736.0	6248.0
62.5°	529.4	538.9	553.2	705.5	1416.9	4268.4	9153.1	9413.6	10326.0	9580.1	6154.0
65°	399.7	403.3	397.3	433.0	585.3	1619.1	6613.2	6967.7	8618.9	8971.0	5782.8
67.5°	328.3	328.3	312.9	320.0	367.6	606.7	3651.0	4145.9	6377.6	7373.4	4775.2
70°	261.7	267.7	260.5	251.0	262.9	335.5	1299.1	1610.8	3714.0	4354.1	2784.9
72.5°	198.7	198.7	210.6	203.4	195.1	210.6	453.3	509.2	1490.6	1815.4	1005.2
75°	153.5	158.2	166.5	159.4	147.5	124.9	217.7	230.8	449.7	422.3	224.8
77.5°	78.5	79.7	105.9	116.6	109.4	76.1	95.2	104.7	146.3	130.9	83.3
80°	47.6	50.0	59.5	91.6	72.6	40.4	39.3	41.6	69.0	59.5	34.5
82.5°	20.2	21.4	33.3	33.3	29.7	15.5	15.5	15.5	33.3	30.9	14.3
85°	0.0	0.0	5.9	4.8	4.8	5.9	5.9	5.9	8.3	11.9	7.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	3.6
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°	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1	3595.1
2.5°	3595.1	3518.9	3416.6	3323.8	3198.9	3128.7	3031.2	2951.5	2883.7	2862.3	2852.7
5°	3596.3	3465.4	3246.5	3027.6	2758.8	2547.0	2329.3	2156.8	2015.2	1970.0	1958.1
7.5°	3620.1	3427.3	3072.8	2675.5	2225.8	1854.6	1522.7	1225.3	1087.3	1040.9	1031.4
10°	3652.2	3395.2	2871.8	2253.2	1607.2	1130.2	800.6	610.3	519.9	469.9	477.0
12.5°	3693.8	3369.0	2649.3	1796.4	1063.5	621.0	440.2	368.8	349.8	340.2	335.5
15°	3749.7	3338.1	2373.3	1343.1	651.9	399.7	339.0	320.0	312.9	308.1	306.9
17.5°	3806.8	3302.4	2092.6	944.6	433.0	331.9	304.5	295.0	290.3	286.7	285.5
20°	3867.5	3241.8	1763.0	650.7	341.4	298.6	280.8	270.0	264.1	258.2	257.0
22.5°	3893.7	3144.2	1447.8	455.6	303.4	274.8	252.2	239.1	232.0	227.2	227.2
25°	3868.7	2986.0	1121.8	346.2	276.0	248.6	226.0	211.8	205.8	201.0	201.0
27.5°	3802.1	2782.6	818.5	286.7	246.3	221.3	199.9	186.8	182.0	179.6	179.6
30°	3728.3	2525.6	577.0	246.3	212.9	192.7	174.9	166.5	165.4	163.0	163.0
32.5°	3665.3	2285.3	397.3	216.5	188.0	167.7	155.8	152.3	153.5	151.1	152.3
35°	3630.8	2049.7	295.0	192.7	167.7	148.7	142.8	142.8	142.8	141.6	141.6
37.5°	3645.0	1817.8	240.3	176.1	149.9	135.6	129.7	132.0	134.4	134.4	134.4
40°	3716.4	1612.0	212.9	160.6	134.4	123.7	119.0	122.5	126.1	128.5	128.5
42.5°	3806.8	1445.4	192.7	147.5	123.7	111.8	109.4	113.0	116.6	119.0	119.0
45°	3863.9	1277.7	172.5	130.9	113.0	98.7	98.7	103.5	102.3	103.5	103.5
47.5°	3890.1	1144.4	152.3	113.0	96.4	85.7	86.8	89.2	86.8	89.2	89.2
50°	3825.9	1010.0	134.4	94.0	79.7	74.9	77.3	76.1	76.1	80.9	80.9
52.5°	3708.1	910.1	119.0	79.7	67.8	66.6	69.0	64.2	65.4	65.4	64.2
55°	3621.3	853.0	105.9	69.0	58.3	59.5	58.3	50.0	45.2	40.4	39.3
57.5°	3578.4	830.4	96.4	61.9	52.3	52.3	47.6	34.5	26.2	20.2	17.8
60°	3568.9	803.0	86.8	53.5	46.4	44.0	34.5	20.2	13.1	9.5	8.3
62.5°	3478.5	736.4	78.5	42.8	40.4	35.7	21.4	11.9	7.1	4.8	3.6
65°	3182.3	605.5	70.2	33.3	30.9	26.2	13.1	7.1	3.6	1.2	0.0
67.5°	2531.5	429.5	61.9	25.0	21.4	16.7	8.3	4.8	1.2	0.0	0.0
70°	1459.7	232.0	51.2	17.8	14.3	10.7	5.9	2.4	0.0	0.0	0.0
72.5°	487.8	108.3	39.3	11.9	10.7	8.3	3.6	1.2	0.0	0.0	0.0
75°	107.1	64.2	26.2	8.3	7.1	5.9	2.4	0.0	0.0	0.0	0.0
77.5°	40.4	45.2	13.1	5.9	4.8	3.6	1.2	0.0	0.0	0.0	0.0
80°	15.5	29.7	5.9	3.6	3.6	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	8.3	11.9	3.6	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	5.9	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	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)