

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: P633789

Luminaire Tested: GWS-SA2F-740-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633789
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13604.2 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

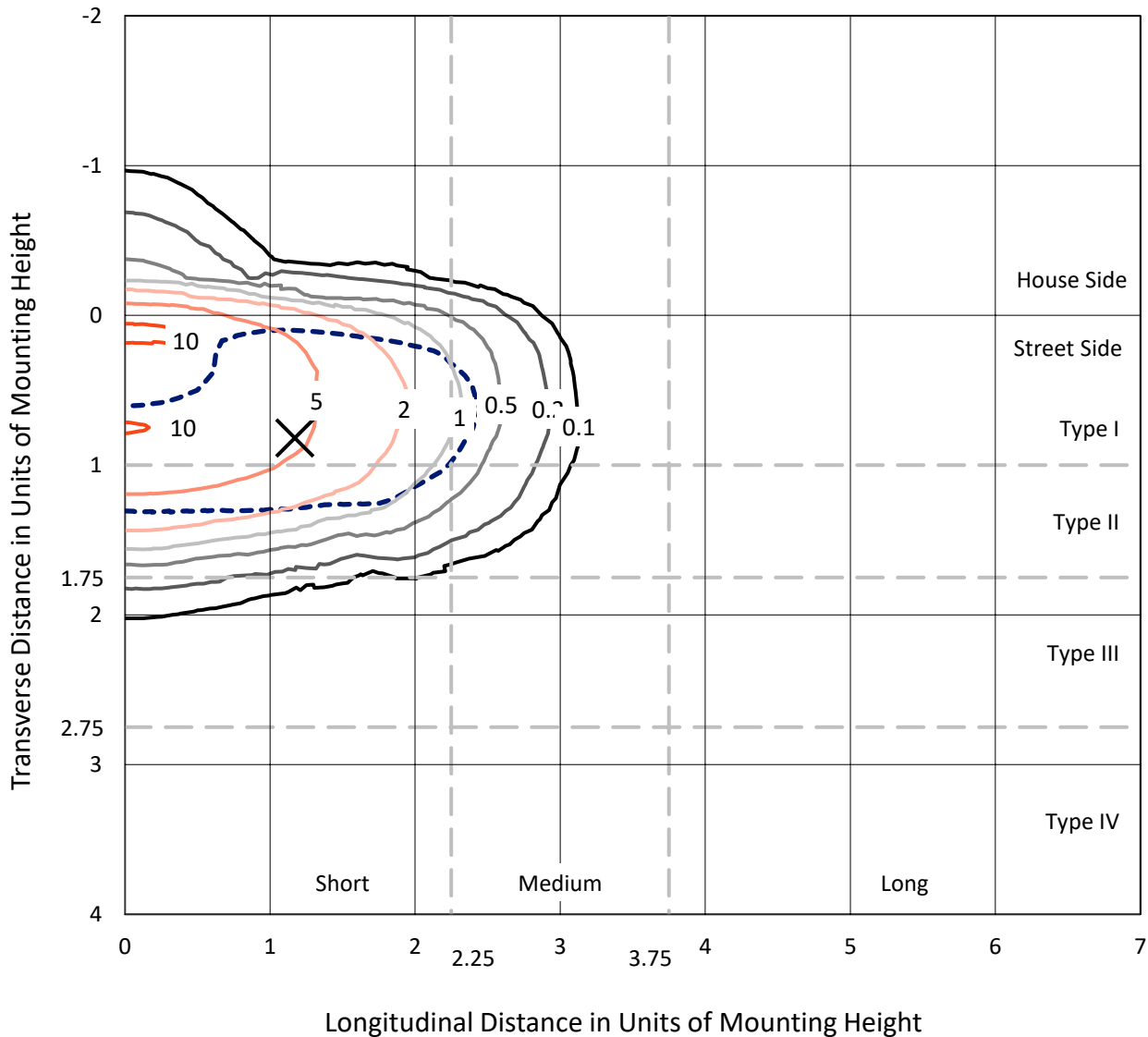
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633789
 CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

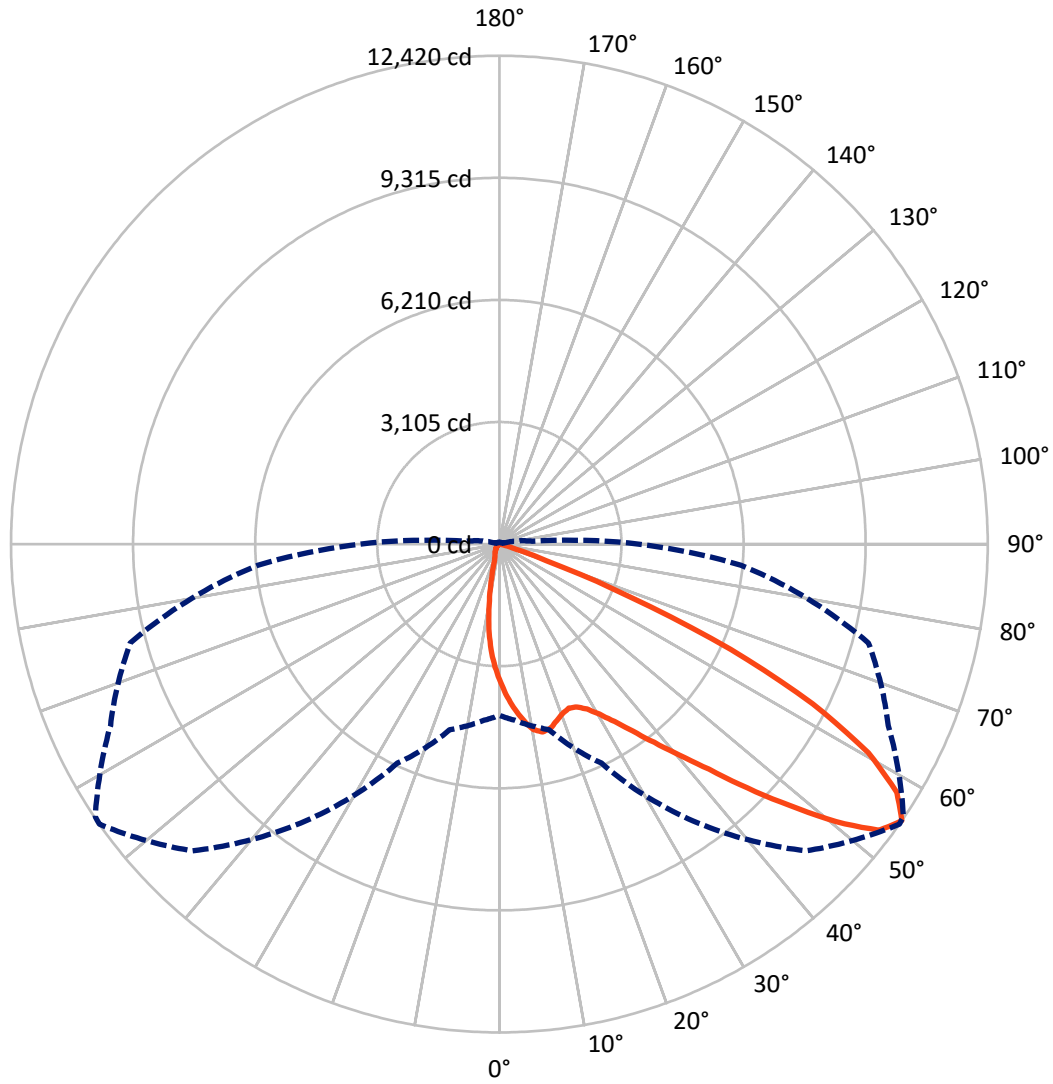
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

REPORT NUMBER: P633789
CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P633789
 CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-HSS

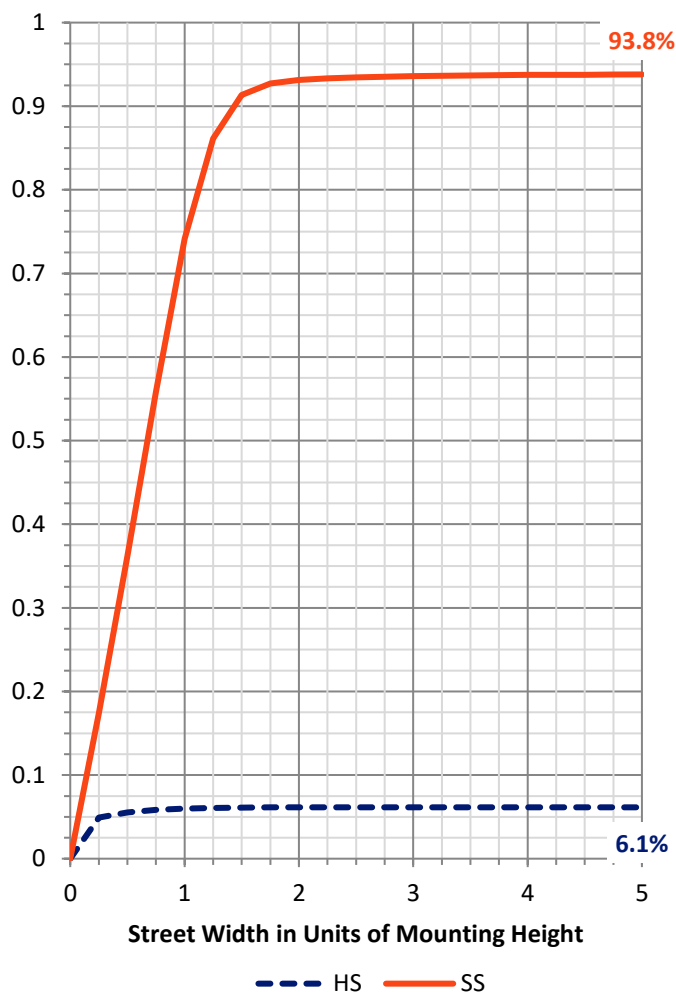
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	839.4	0.0	839.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	12764.8	0.0	12764.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	13604.2	0.0	13604.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.6	2.3
10°-20°	748.8	5.5
20°-30°	1247.1	9.2
30°-40°	2125.1	15.6
40°-50°	3468.9	25.5
50°-60°	3631.8	26.7
60°-70°	1831.8	13.5
70°-80°	231.4	1.7
80°-90°	8.8	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°	13604.2	100.0
0°-180°	13604.2	100.0

Coefficient of Utilization



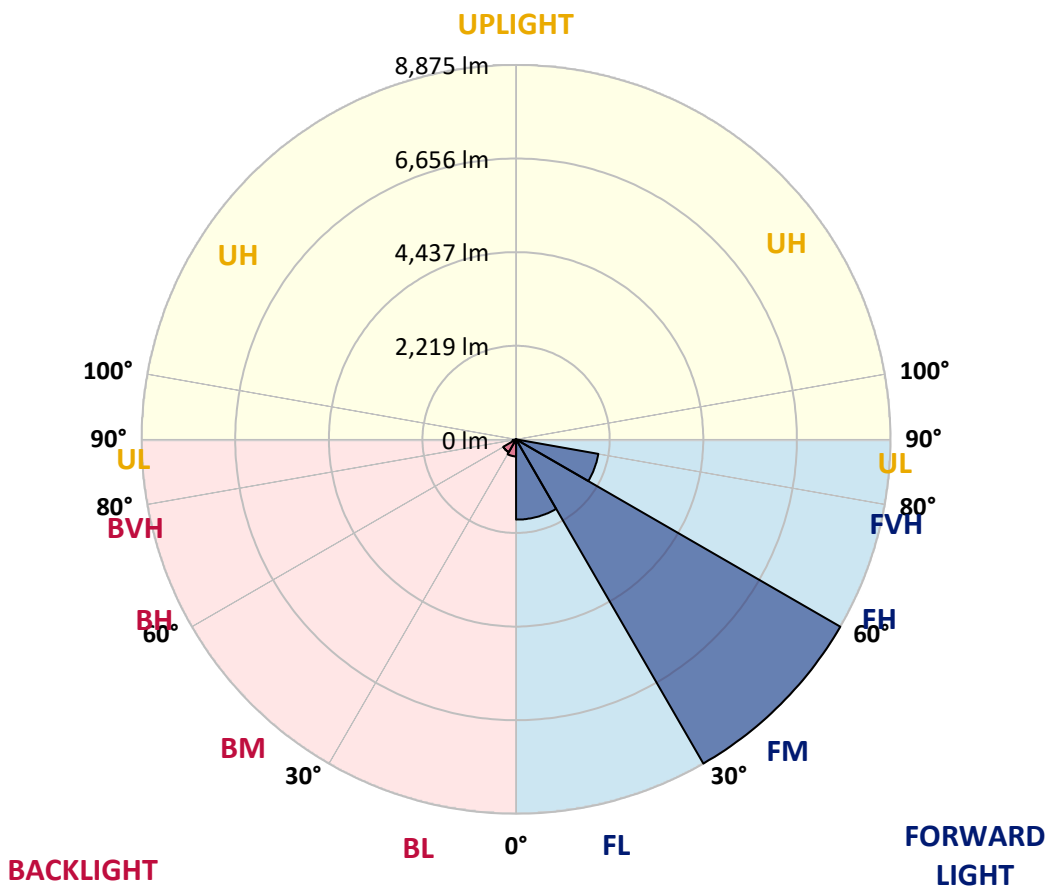
REPORT NUMBER: P633789

CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1903.0	14.0			
FM (30°-60°)	8874.8	65.2			
FH (60°-80°)	1979.0	14.5			G2/5000
FVH (80°-90°)	8.0	0.1			G0/10
BL (0°-30°)	403.5	3.0	B1/500		
BM (30°-60°)	351.0	2.6	B1/1000		
BH (60°-80°)	84.2	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





REPORT NUMBER: P633789

CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5
2.5°	4097.2	4077.4	4107.6	4072.8	4013.4	3963.4	3898.3	3875.1	3770.4	3671.5	3576.2
5°	4594.9	4600.8	4591.4	4542.6	4458.9	4365.8	4234.4	4205.3	4022.8	3834.3	3630.8
7.5°	4718.2	4714.7	4734.5	4753.1	4739.1	4692.6	4549.6	4520.5	4293.7	4011.1	3714.6
10°	4337.9	4340.2	4380.9	4506.6	4662.4	4824.0	4801.9	4785.7	4563.5	4211.2	3807.6
12.5°	3800.6	3821.6	3864.6	4043.7	4307.7	4675.2	4903.1	4919.4	4811.3	4431.0	3916.9
15°	3568.0	3572.7	3607.6	3715.7	3912.3	4365.8	4860.1	4905.5	5018.3	4651.9	4035.5
17.5°	3562.2	3568.0	3583.1	3630.8	3758.8	4122.8	4721.7	4800.8	5174.1	4889.2	4177.4
20°	3780.9	3777.4	3766.9	3741.3	3797.1	4042.5	4593.8	4681.0	5259.0	5120.6	4320.5
22.5°	4177.4	4172.8	4126.3	4020.4	3975.1	4115.8	4531.0	4610.1	5310.2	5326.5	4437.9
25°	4634.5	4667.0	4579.8	4419.3	4307.7	4303.0	4586.8	4642.6	5354.4	5509.0	4518.2
27.5°	5135.7	5146.2	5071.8	4891.5	4729.8	4603.1	4748.5	4790.3	5403.2	5671.9	4563.5
30°	5685.8	5682.3	5597.4	5388.1	5191.5	5009.0	5020.6	5036.9	5517.2	5857.9	4613.5
32.5°	6373.1	6388.3	6237.1	5952.1	5716.1	5463.7	5376.5	5378.8	5723.0	6097.5	4689.1
35°	7307.0	7269.8	7069.8	6663.9	6261.5	5989.4	5840.5	5827.7	6040.5	6419.7	4820.6
37.5°	8196.7	8200.2	7990.8	7544.3	7036.0	6606.9	6396.4	6361.5	6487.1	6866.2	5039.2
40°	8814.2	8825.9	8738.6	8504.9	7966.4	7359.3	7050.0	7013.9	7066.3	7431.4	5325.3
42.5°	9141.0	9173.6	9198.0	9252.7	8844.5	8299.0	7823.4	7819.9	7765.2	8075.7	5656.7
45°	9153.8	9202.7	9351.5	9724.8	9771.4	9371.3	8853.8	8775.9	8565.4	8765.4	5953.3
47.5°	8647.9	8760.7	9077.1	9816.7	10305.2	10437.8	9924.9	9877.2	9286.4	9310.8	6175.4
50°	7468.7	7586.1	8168.8	9345.7	10440.1	11284.4	11100.7	11001.8	9888.8	9671.3	6282.4
52.5°	6259.2	6366.2	6761.6	8224.6	9880.7	11550.7	12091.5	11974.1	10429.6	9797.0	6238.2
55°	4355.4	4498.4	4884.5	6147.5	8592.1	11032.0	12419.5	12395.1	10912.3	9717.9	6169.6
57.5°	2135.2	2277.1	2662.1	3790.2	6365.0	9631.8	11918.2	12047.3	11200.7	9633.0	6113.8
60°	892.0	950.2	1082.7	1663.1	3561.0	7279.1	10786.6	10965.7	11023.9	9517.8	6108.0
62.5°	517.5	526.8	540.8	689.6	1385.1	4172.8	8948.0	9202.7	10094.7	9365.5	6016.1
65°	390.8	394.3	388.4	423.3	572.2	1582.8	6465.0	6811.6	8425.8	8770.0	5653.3
67.5°	321.0	321.0	305.9	312.8	359.4	593.1	3569.2	4053.0	6234.7	7208.2	4668.2
70°	255.9	261.7	254.7	245.4	257.0	328.0	1270.0	1574.7	3630.8	4256.5	2722.5
72.5°	194.2	194.2	205.8	198.9	190.7	205.8	443.1	497.8	1457.2	1774.7	982.7
75°	150.0	154.7	162.8	155.8	144.2	122.1	212.8	225.6	439.6	412.9	219.8
77.5°	76.8	77.9	103.5	114.0	107.0	74.4	93.0	102.3	143.0	127.9	81.4
80°	46.5	48.8	58.1	89.5	70.9	39.5	38.4	40.7	67.5	58.1	33.7
82.5°	19.8	20.9	32.6	32.6	29.1	15.1	15.1	15.1	32.6	30.2	14.0
85°	0.0	0.0	5.8	4.7	4.7	5.8	5.8	5.8	8.1	11.6	7.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633789

CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5	3514.5
2.5°	3514.5	3440.1	3340.1	3249.4	3127.3	3058.6	2963.3	2885.4	2819.1	2798.1	2788.8
5°	3515.7	3387.8	3173.8	2959.8	2697.0	2489.9	2277.1	2108.5	1970.1	1925.9	1914.3
7.5°	3539.0	3350.5	3004.0	2615.5	2175.9	1813.1	1488.6	1197.9	1063.0	1017.6	1008.3
10°	3570.4	3319.1	2807.4	2202.7	1571.2	1104.8	782.7	596.6	508.2	459.4	466.4
12.5°	3611.1	3293.6	2590.0	1756.1	1039.7	607.1	430.3	360.5	341.9	332.6	328.0
15°	3665.7	3263.3	2320.1	1313.0	637.3	390.8	331.4	312.8	305.9	301.2	300.0
17.5°	3721.5	3228.4	2045.7	923.4	423.3	324.5	297.7	288.4	283.8	280.3	279.1
20°	3780.9	3169.1	1723.5	636.2	333.8	291.9	274.5	264.0	258.2	252.4	251.2
22.5°	3806.4	3073.8	1415.3	445.4	296.6	268.6	246.6	233.8	226.8	222.1	222.1
25°	3782.0	2919.1	1096.7	338.4	269.8	243.1	221.0	207.0	201.2	196.5	196.5
27.5°	3716.9	2720.2	800.1	280.3	240.7	216.3	195.4	182.6	177.9	175.6	175.6
30°	3644.8	2469.0	564.0	240.7	208.2	188.4	171.0	162.8	161.7	159.3	159.3
32.5°	3583.1	2234.1	388.4	211.7	183.8	164.0	152.4	148.9	150.0	147.7	148.9
35°	3549.4	2003.8	288.4	188.4	164.0	145.4	139.6	139.6	139.6	138.4	138.4
37.5°	3563.4	1777.0	234.9	172.1	146.5	132.6	126.8	129.1	131.4	131.4	131.4
40°	3633.2	1575.8	208.2	157.0	131.4	121.0	116.3	119.8	123.3	125.6	125.6
42.5°	3721.5	1413.0	188.4	144.2	121.0	109.3	107.0	110.5	114.0	116.3	116.3
45°	3777.4	1249.0	168.6	127.9	110.5	96.5	96.5	101.2	100.0	101.2	101.2
47.5°	3802.9	1118.8	148.9	110.5	94.2	83.7	84.9	87.2	84.9	87.2	87.2
50°	3740.1	987.4	131.4	91.9	77.9	73.3	75.6	74.4	74.4	79.1	79.1
52.5°	3625.0	889.7	116.3	77.9	66.3	65.1	67.5	62.8	64.0	64.0	62.8
55°	3540.1	833.9	103.5	67.5	57.0	58.1	57.0	48.8	44.2	39.5	38.4
57.5°	3498.2	811.8	94.2	60.5	51.2	51.2	46.5	33.7	25.6	19.8	17.4
60°	3488.9	785.0	84.9	52.3	45.4	43.0	33.7	19.8	12.8	9.3	8.1
62.5°	3400.6	719.9	76.8	41.9	39.5	34.9	20.9	11.6	7.0	4.7	3.5
65°	3111.0	592.0	68.6	32.6	30.2	25.6	12.8	7.0	3.5	1.2	0.0
67.5°	2474.8	419.8	60.5	24.4	20.9	16.3	8.1	4.7	1.2	0.0	0.0
70°	1427.0	226.8	50.0	17.4	14.0	10.5	5.8	2.3	0.0	0.0	0.0
72.5°	476.8	105.8	38.4	11.6	10.5	8.1	3.5	1.2	0.0	0.0	0.0
75°	104.7	62.8	25.6	8.1	7.0	5.8	2.3	0.0	0.0	0.0	0.0
77.5°	39.5	44.2	12.8	5.8	4.7	3.5	1.2	0.0	0.0	0.0	0.0
80°	15.1	29.1	5.8	3.5	3.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	8.1	11.6	3.5	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	5.8	2.3	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	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)