

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: P642424

Luminaire Tested: GWS-SA6C-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642424
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-SA6C-830-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18915.7 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

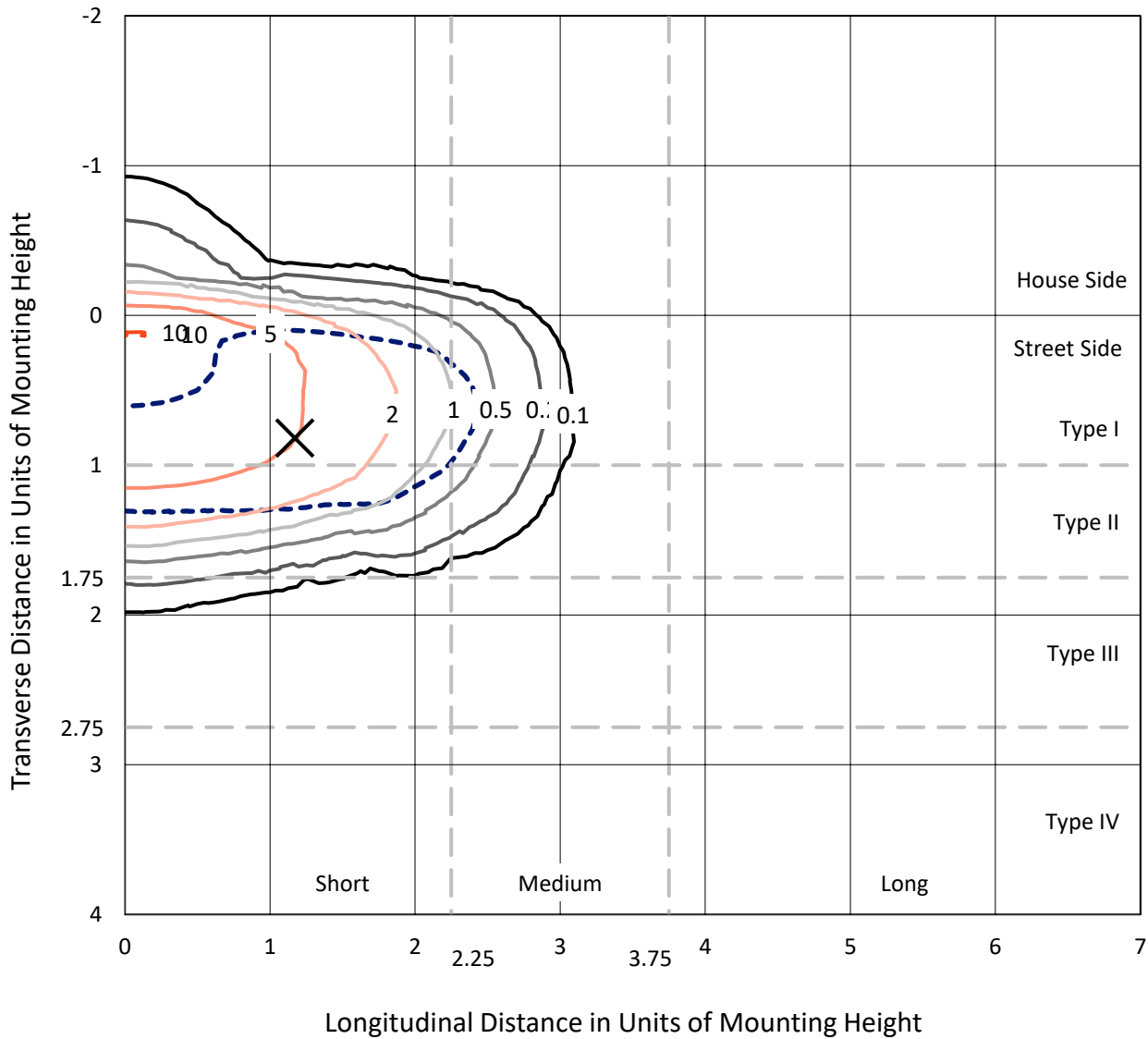
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

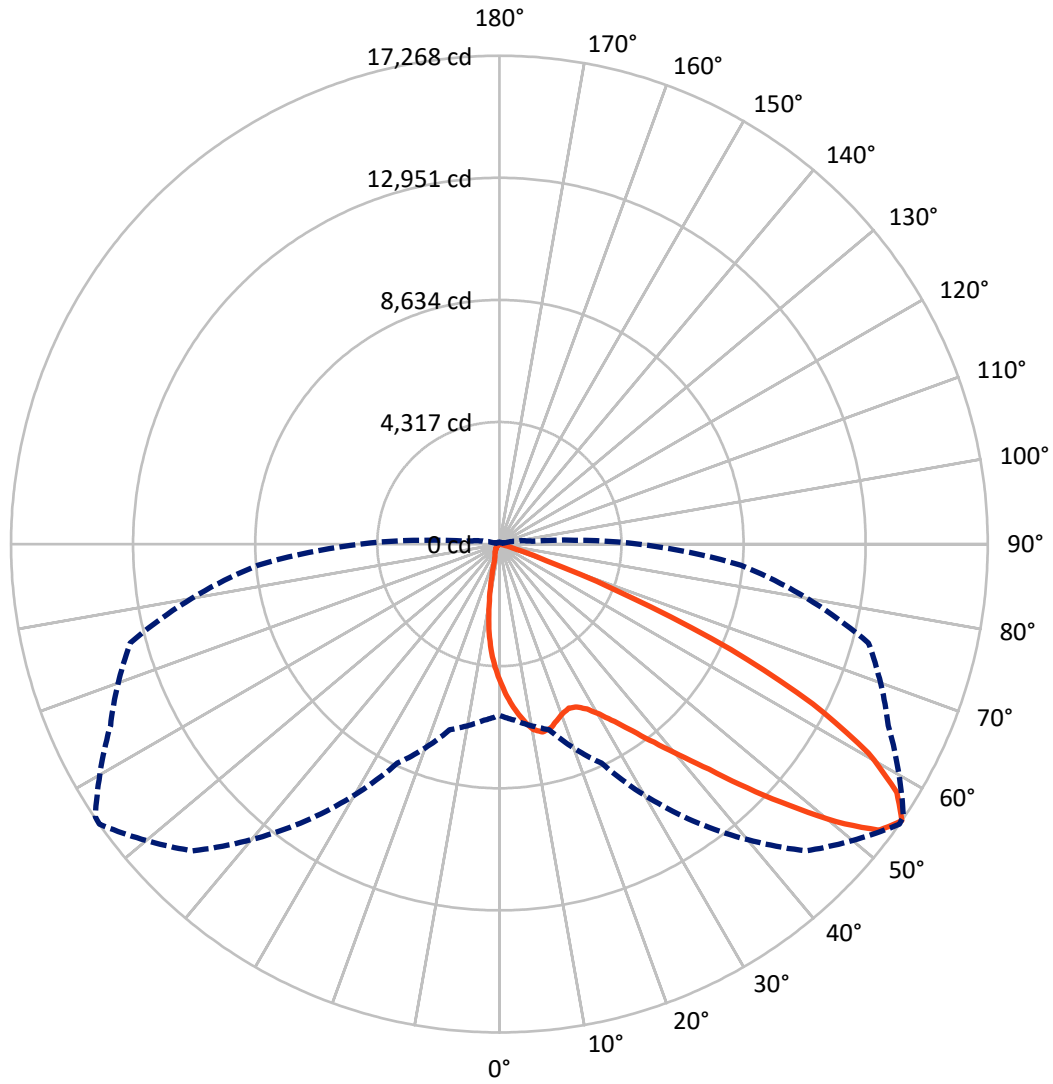
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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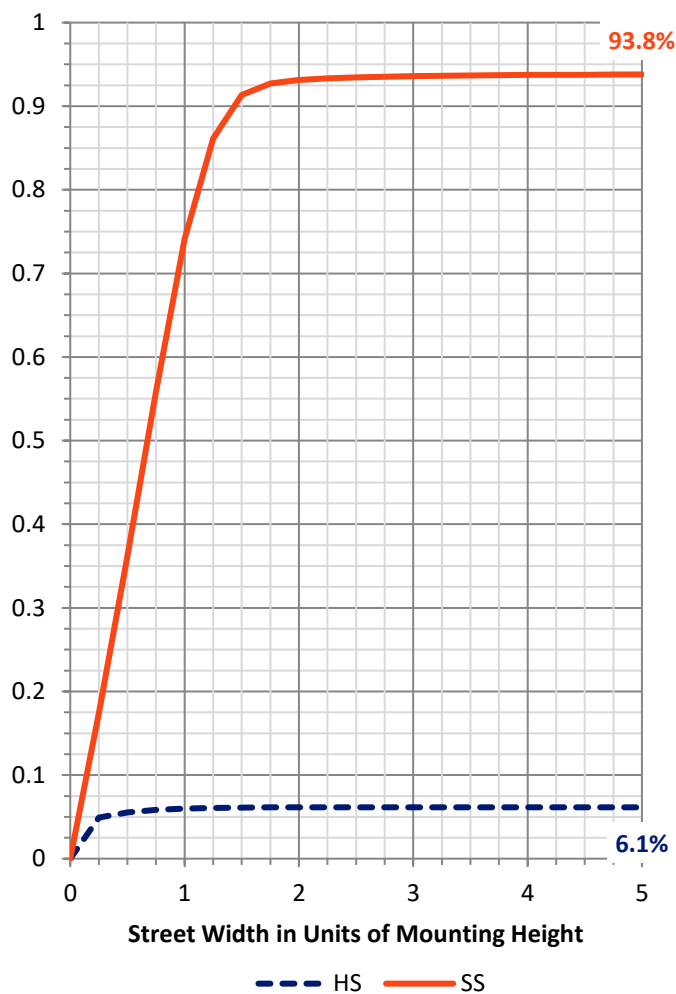
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1167.2	0.0	1167.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	17748.5	0.0	17748.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	18915.7	0.0	18915.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.9	2.3
10°-20°	1041.2	5.5
20°-30°	1734.0	9.2
30°-40°	2954.8	15.6
40°-50°	4823.3	25.5
50°-60°	5049.7	26.7
60°-70°	2547.0	13.5
70°-80°	321.7	1.7
80°-90°	12.2	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°	18915.7	100.0
0°-180°	18915.7	100.0

Coefficient of Utilization



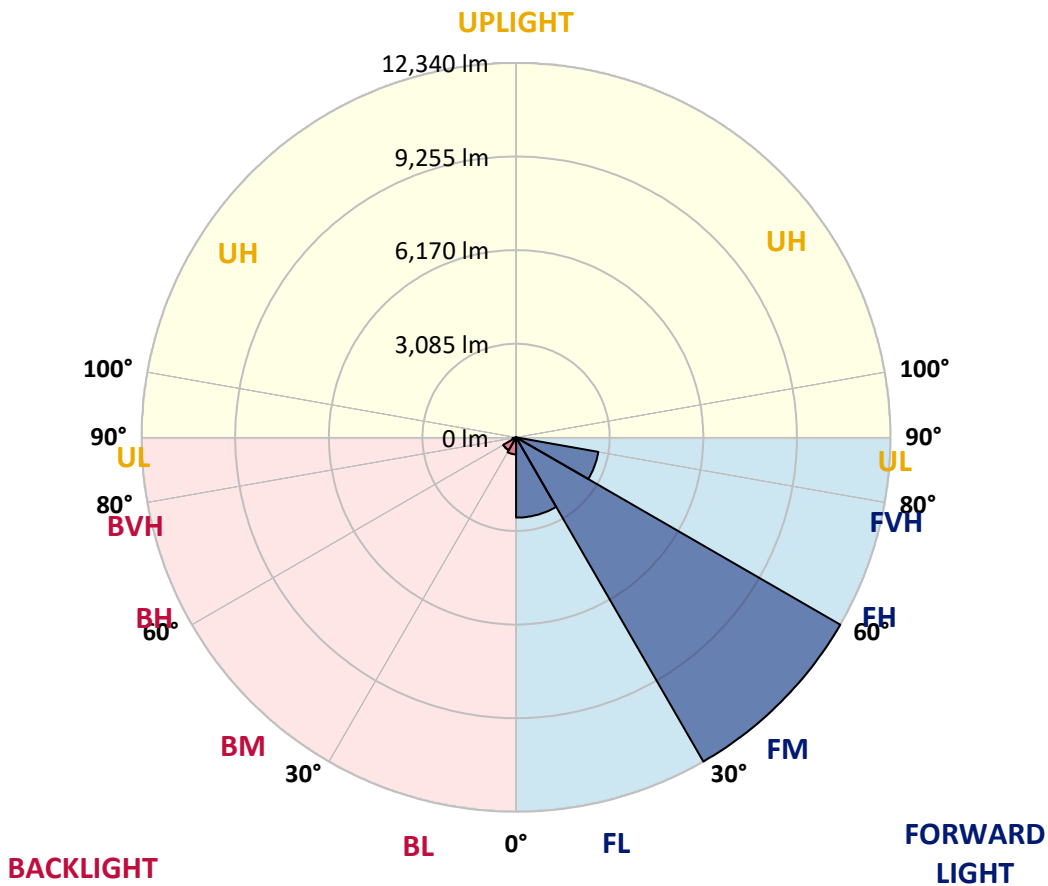
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2646.0	14.0			
FM (30°-60°)	12339.8	65.2			
FH (60°-80°)	2751.6	14.5			G2/5000
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	561.0	3.0	B2/1000		
BM (30°-60°)	488.0	2.6	B1/1000		
BH (60°-80°)	117.1	0.6	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7
2.5°	5696.8	5669.4	5711.4	5662.9	5580.4	5510.9	5420.3	5388.0	5242.5	5105.0	4972.4
5°	6388.9	6397.0	6384.1	6316.2	6199.7	6070.4	5887.7	5847.2	5593.4	5331.4	5048.4
7.5°	6560.4	6555.5	6583.0	6608.9	6589.5	6524.8	6325.9	6285.5	5970.1	5577.2	5164.8
10°	6031.6	6034.8	6091.4	6266.0	6482.7	6707.5	6676.8	6654.1	6345.3	5855.3	5294.2
12.5°	5284.5	5313.6	5373.4	5622.5	5989.5	6500.5	6817.5	6840.1	6689.7	6160.9	5446.2
15°	4961.1	4967.6	5016.1	5166.5	5439.7	6070.4	6757.6	6820.7	6977.5	6468.2	5611.1
17.5°	4953.0	4961.1	4982.1	5048.4	5226.3	5732.4	6565.2	6675.2	7194.2	6798.1	5808.4
20°	5257.0	5252.2	5237.6	5202.0	5279.7	5620.8	6387.3	6508.6	7312.3	7119.8	6007.3
22.5°	5808.4	5802.0	5737.3	5590.1	5527.1	5722.7	6300.0	6410.0	7383.4	7406.1	6170.6
25°	6443.9	6489.2	6367.9	6144.8	5989.5	5983.1	6377.6	6455.2	7444.9	7659.9	6282.2
27.5°	7140.9	7155.4	7051.9	6801.3	6576.5	6400.3	6602.4	6660.6	7512.8	7886.3	6345.3
30°	7905.7	7900.9	7782.8	7491.8	7218.5	6964.6	6980.8	7003.4	7671.3	8145.1	6414.8
32.5°	8861.4	8882.4	8672.2	8276.0	7947.8	7596.9	7475.6	7478.8	7957.5	8478.2	6519.9
35°	10159.9	10108.1	9830.0	9265.7	8706.2	8327.8	8120.8	8103.0	8398.9	8926.1	6702.7
37.5°	11396.9	11401.8	11110.7	10489.8	9783.1	9186.4	8893.7	8845.2	9019.9	9547.0	7006.7
40°	12255.6	12271.8	12150.5	11825.4	11076.8	10232.7	9802.5	9752.4	9825.2	10332.9	7404.4
42.5°	12710.0	12755.2	12789.2	12865.2	12297.6	11539.2	10877.9	10873.0	10797.0	11228.8	7865.3
45°	12727.8	12795.7	13002.7	13521.7	13586.4	13030.1	12310.6	12202.2	11909.5	12187.7	8277.7
47.5°	12024.3	12181.2	12621.0	13649.5	14328.6	14513.0	13799.9	13733.6	12912.1	12946.1	8586.5
50°	10384.7	10548.0	11358.1	12994.6	14516.2	15690.2	15434.7	15297.2	13749.7	13447.3	8735.3
52.5°	8702.9	8851.7	9401.5	11435.7	13738.4	16060.5	16812.4	16649.1	14501.7	13622.0	8673.8
55°	6055.8	6254.7	6791.6	8547.7	11946.7	15339.3	17268.4	17234.5	15172.7	13512.0	8578.4
57.5°	2968.9	3166.2	3701.4	5269.9	8850.1	13392.4	16571.5	16751.0	15573.8	13394.0	8500.8
60°	1240.3	1321.1	1505.5	2312.4	4951.4	10121.1	14998.1	15247.1	15328.0	13233.9	8492.7
62.5°	719.6	732.5	751.9	958.9	1925.9	5802.0	12441.5	12795.7	14035.9	13022.1	8365.0
65°	543.3	548.2	540.1	588.6	795.6	2200.8	8989.2	9471.0	11715.5	12194.1	7860.5
67.5°	446.3	446.3	425.3	435.0	499.7	824.7	4962.7	5635.4	8669.0	10022.4	6490.8
70°	355.7	363.8	354.1	341.2	357.4	456.0	1765.8	2189.5	5048.4	5918.4	3785.5
72.5°	270.0	270.0	286.2	276.5	265.2	286.2	616.1	692.1	2026.2	2467.6	1366.4
75°	208.6	215.1	226.4	216.7	200.5	169.8	295.9	313.7	611.2	574.1	305.6
77.5°	106.7	108.3	143.9	158.5	148.8	103.5	129.4	142.3	198.9	177.9	113.2
80°	64.7	67.9	80.9	124.5	98.6	55.0	53.4	56.6	93.8	80.9	46.9
82.5°	27.5	29.1	45.3	45.3	40.4	21.0	21.0	21.0	45.3	42.0	19.4
85°	0.0	0.0	8.1	6.5	6.5	8.1	8.1	8.1	11.3	16.2	9.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	4.9
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°	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7	4886.7
2.5°	4886.7	4783.2	4644.2	4518.0	4348.2	4252.8	4120.2	4011.9	3919.7	3890.6	3877.7
5°	4888.3	4710.5	4412.9	4115.4	3749.9	3462.1	3166.2	2931.7	2739.3	2677.8	2661.7
7.5°	4920.7	4658.7	4176.8	3636.7	3025.5	2521.0	2069.8	1665.6	1478.0	1414.9	1402.0
10°	4964.3	4615.0	3903.5	3062.7	2184.6	1536.2	1088.3	829.5	706.6	638.7	648.4
12.5°	5020.9	4579.5	3601.2	2441.7	1445.6	844.1	598.3	501.3	475.4	462.5	456.0
15°	5096.9	4537.4	3226.0	1825.6	886.1	543.3	460.9	435.0	425.3	418.8	417.2
17.5°	5174.5	4488.9	2844.4	1283.9	588.6	451.2	414.0	401.0	394.6	389.7	388.1
20°	5257.0	4406.4	2396.5	884.5	464.1	405.9	381.6	367.1	359.0	350.9	349.3
22.5°	5292.6	4273.8	1967.9	619.3	412.3	373.5	342.8	325.0	315.3	308.9	308.9
25°	5258.6	4058.8	1524.9	470.6	375.2	338.0	307.2	287.8	279.7	273.3	273.3
27.5°	5168.1	3782.3	1112.5	389.7	334.7	300.8	271.7	253.9	247.4	244.2	244.2
30°	5067.8	3433.0	784.3	334.7	289.5	262.0	237.7	226.4	224.8	221.5	221.5
32.5°	4982.1	3106.3	540.1	294.3	255.5	228.0	211.8	207.0	208.6	205.4	207.0
35°	4935.2	2786.2	401.0	262.0	228.0	202.1	194.0	194.0	194.0	192.4	192.4
37.5°	4954.6	2470.8	326.6	239.3	203.7	184.3	176.3	179.5	182.7	182.7	182.7
40°	5051.6	2191.1	289.5	218.3	182.7	168.2	161.7	166.6	171.4	174.6	174.6
42.5°	5174.5	1964.7	262.0	200.5	168.2	152.0	148.8	153.6	158.5	161.7	161.7
45°	5252.2	1736.7	234.5	177.9	153.6	134.2	134.2	140.7	139.1	140.7	140.7
47.5°	5287.7	1555.6	207.0	153.6	131.0	116.4	118.0	121.3	118.0	121.3	121.3
50°	5200.4	1372.9	182.7	127.7	108.3	101.9	105.1	103.5	103.5	110.0	110.0
52.5°	5040.3	1237.0	161.7	108.3	92.2	90.6	93.8	87.3	88.9	88.9	87.3
55°	4922.3	1159.4	143.9	93.8	79.2	80.9	79.2	67.9	61.4	55.0	53.4
57.5°	4864.1	1128.7	131.0	84.1	71.1	71.1	64.7	46.9	35.6	27.5	24.3
60°	4851.1	1091.5	118.0	72.8	63.1	59.8	46.9	27.5	17.8	12.9	11.3
62.5°	4728.2	1001.0	106.7	58.2	55.0	48.5	29.1	16.2	9.7	6.5	4.9
65°	4325.6	823.1	95.4	45.3	42.0	35.6	17.8	9.7	4.9	1.6	0.0
67.5°	3441.1	583.8	84.1	34.0	29.1	22.6	11.3	6.5	1.6	0.0	0.0
70°	1984.1	315.3	69.5	24.3	19.4	14.6	8.1	3.2	0.0	0.0	0.0
72.5°	663.0	147.2	53.4	16.2	14.6	11.3	4.9	1.6	0.0	0.0	0.0
75°	145.5	87.3	35.6	11.3	9.7	8.1	3.2	0.0	0.0	0.0	0.0
77.5°	55.0	61.4	17.8	8.1	6.5	4.9	1.6	0.0	0.0	0.0	0.0
80°	21.0	40.4	8.1	4.9	4.9	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	11.3	16.2	4.9	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	8.1	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	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)