

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: P629100

Luminaire Tested: GWS-SA1A-830-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-830-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

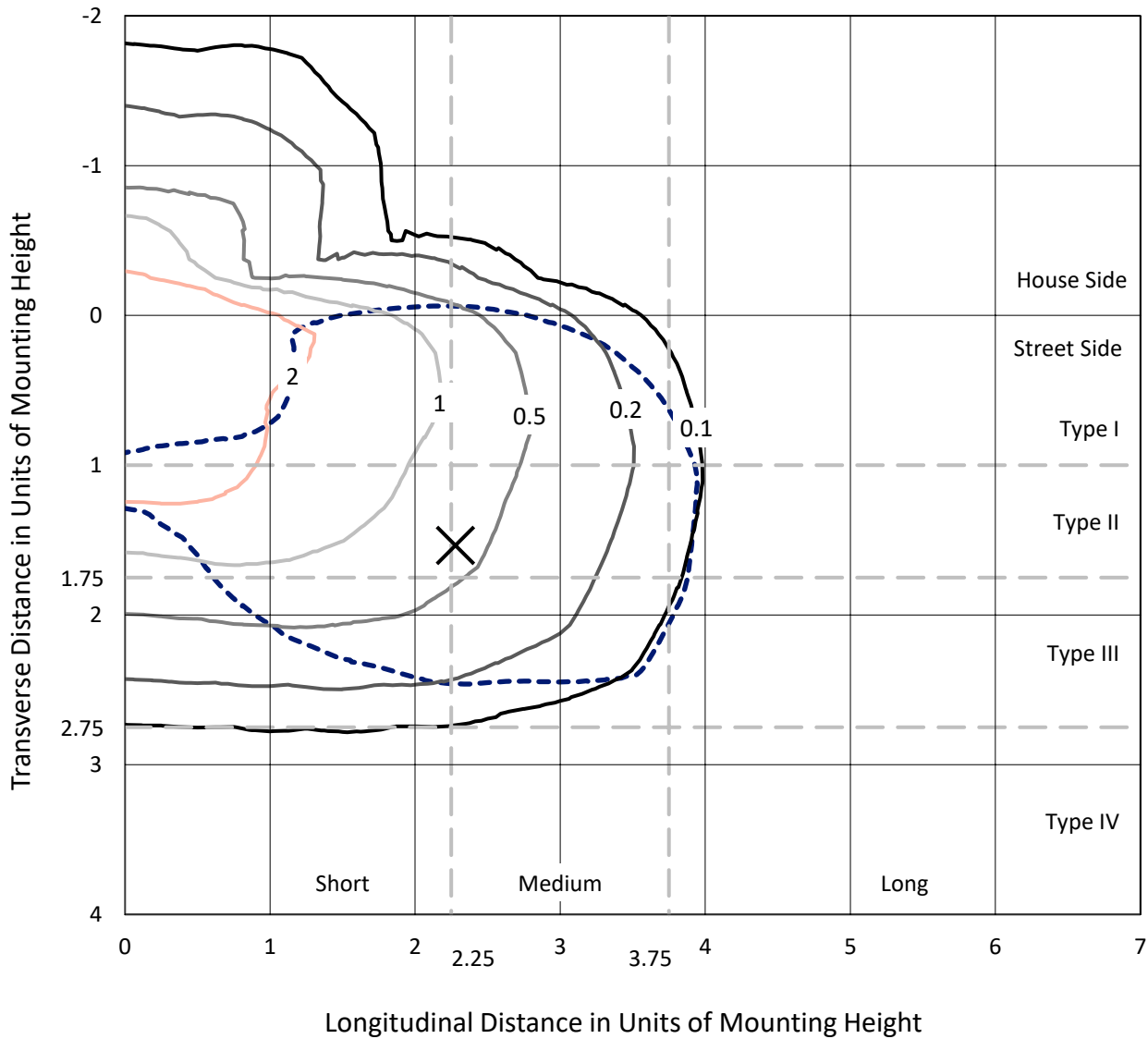
Lumens per Lamp: N/A  
Luminaire Lumens: 2296.5 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

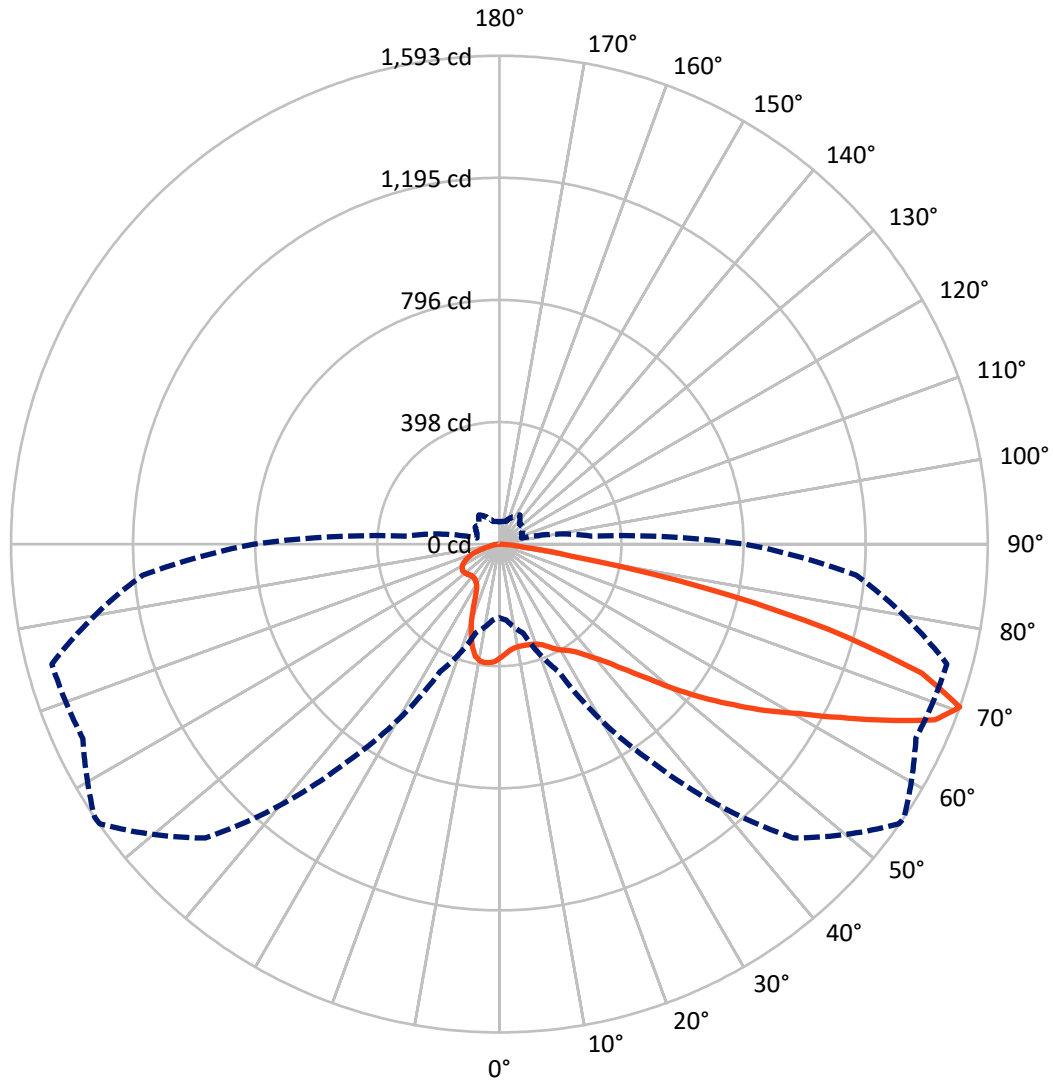
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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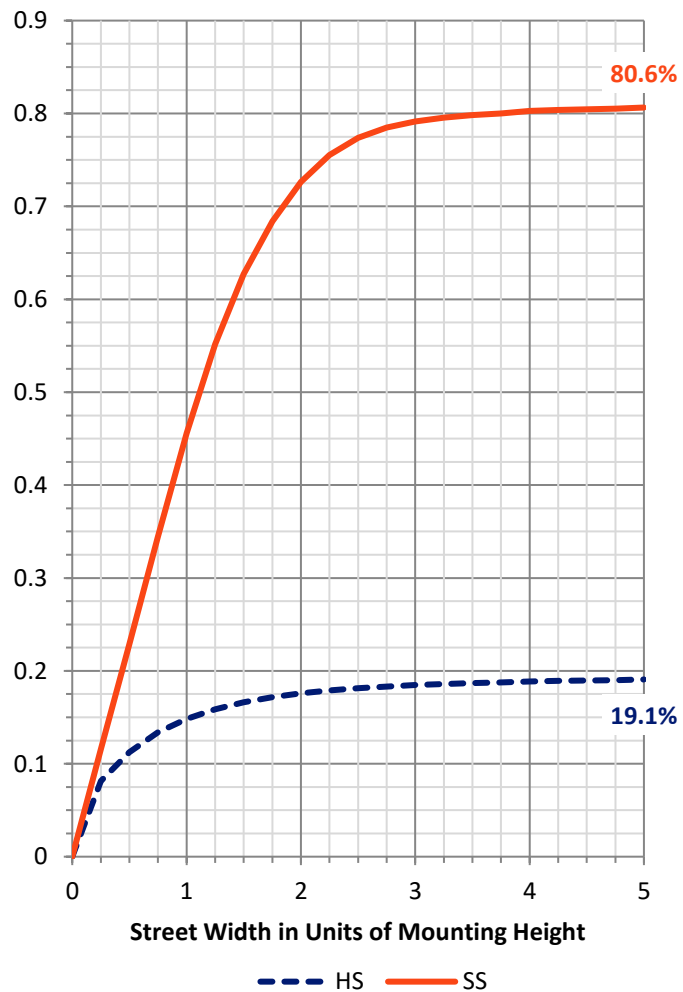
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	441.5	0.0	441.5
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	1855.0	0.0	1855.0
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	2296.5	0.0	2296.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.3	1.5
10°-20°	92.9	4.0
20°-30°	153.7	6.7
30°-40°	229.7	10.0
40°-50°	341.9	14.9
50°-60°	486.1	21.2
60°-70°	602.0	26.2
70°-80°	332.4	14.5
80°-90°	23.4	1.0
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°	2296.5	100.0
0°-180°	2296.5	100.0

**Coefficient of Utilization**



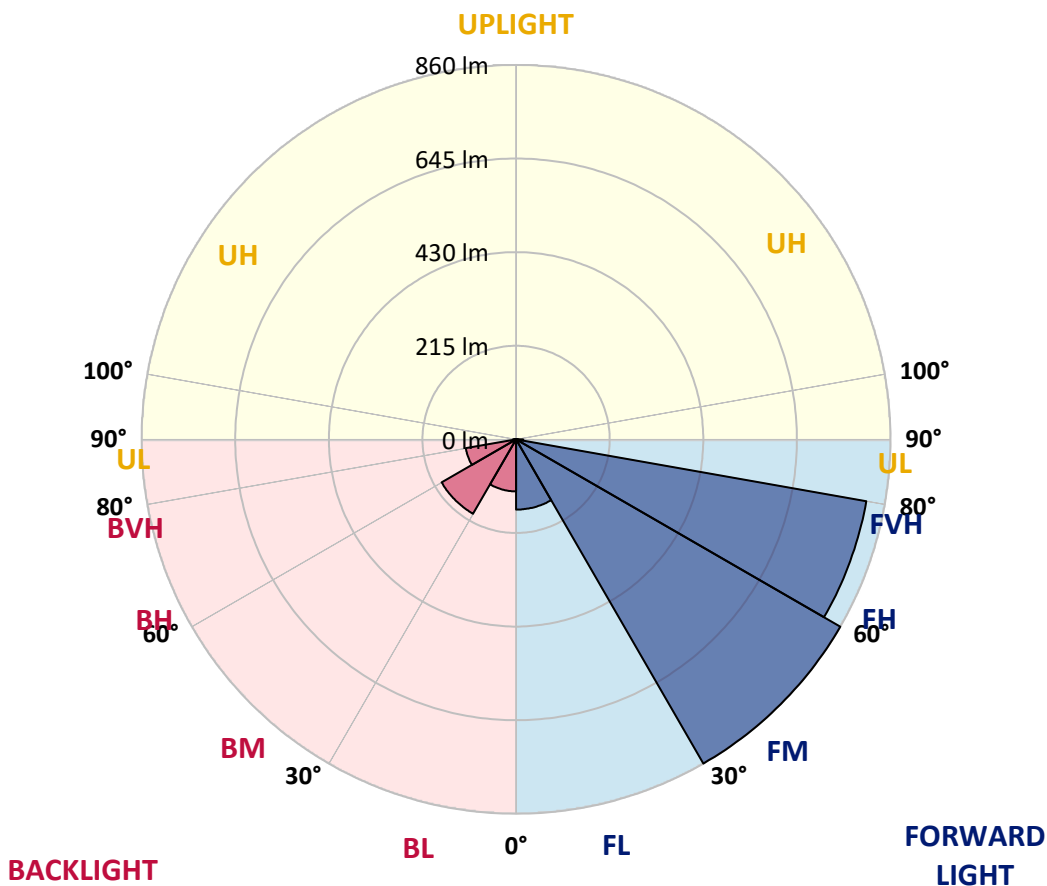
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	161.4	7.0			
FM (30°-60°)	860.2	37.5			
FH (60°-80°)	817.1	35.6			G1/1800
FVH (80°-90°)	16.3	0.7			G1/100
BL (0°-30°)	119.5	5.2	B1/500		
BM (30°-60°)	197.5	8.6	B0/220		
BH (60°-80°)	117.3	5.1	B1/500		G1/500
BVH (80°-90°)	7.1	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7
2.5°	346.9	344.9	347.2	348.3	351.3	355.5	359.2	359.4	361.3	366.0	370.5
5°	331.2	330.2	330.9	334.3	337.3	342.7	348.3	348.8	354.3	363.6	372.6
7.5°	319.0	317.7	320.2	324.5	328.4	334.4	341.9	342.5	350.3	364.2	378.1
10°	301.5	300.6	305.1	310.9	319.4	329.2	339.1	339.9	350.1	368.4	387.9
12.5°	293.9	293.9	295.9	301.4	310.6	323.7	338.6	339.9	352.7	374.9	400.3
15°	305.8	306.6	304.9	304.6	308.3	320.8	339.3	341.2	357.6	381.5	412.6
17.5°	329.6	330.4	326.2	319.5	315.8	323.6	341.7	343.8	362.8	388.8	425.9
20°	362.9	363.9	354.7	344.5	331.7	331.5	346.4	348.3	369.4	396.8	440.0
22.5°	401.9	402.6	390.9	374.7	355.1	346.2	354.5	356.4	378.0	407.8	455.2
25°	447.1	449.1	435.0	411.5	384.9	366.5	367.9	370.2	393.4	422.5	473.2
27.5°	495.4	497.8	481.6	455.7	419.1	388.8	385.3	387.2	409.7	431.6	482.8
30°	544.8	546.6	530.4	500.7	455.9	414.1	399.8	401.0	416.8	436.0	492.5
32.5°	599.7	598.2	582.7	548.5	498.3	444.4	413.4	413.1	424.8	444.7	506.4
35°	651.2	653.3	636.8	599.0	544.9	481.8	433.8	432.6	441.6	459.0	526.0
37.5°	713.5	712.9	693.1	652.3	591.7	517.6	462.5	460.2	463.5	481.1	553.4
40°	758.1	762.6	749.8	711.7	646.5	561.6	496.0	491.0	491.8	508.5	590.0
42.5°	794.5	798.7	800.0	775.7	709.2	616.0	537.8	532.8	533.3	556.9	635.0
45°	822.5	828.2	846.5	839.4	779.8	678.9	594.3	589.2	589.5	615.7	689.4
47.5°	834.0	840.2	877.3	894.3	854.7	754.0	664.6	657.0	658.1	687.1	751.6
50°	830.3	838.5	888.8	936.5	917.6	830.5	748.7	743.3	739.0	781.1	819.1
52.5°	798.2	807.3	887.6	963.4	968.9	902.7	835.5	832.4	831.4	880.8	894.6
55°	703.8	719.0	848.6	970.5	1009.1	970.7	929.6	924.4	929.4	987.7	970.9
57.5°	651.5	662.8	772.2	962.6	1041.9	1035.5	1023.5	1024.0	1029.6	1103.8	1063.3
60°	621.7	635.0	729.7	940.9	1073.5	1114.2	1121.8	1121.8	1132.0	1229.0	1157.3
62.5°	582.2	595.6	690.0	899.1	1102.7	1206.8	1245.4	1244.9	1248.9	1363.2	1249.1
65°	502.0	514.5	610.4	833.2	1116.9	1308.8	1385.8	1384.3	1376.2	1482.8	1309.8
67.5°	364.5	376.4	467.5	707.9	1065.6	1391.1	1530.4	1531.0	1482.6	1558.1	1313.0
70°	240.3	248.4	300.6	459.8	866.6	1355.6	1590.9	1592.9	1499.0	1511.1	1168.6
72.5°	150.0	155.6	187.7	274.2	512.1	1073.0	1435.5	1440.8	1348.5	1327.9	960.2
75°	99.6	103.5	124.9	159.8	236.9	580.7	1091.2	1108.3	1080.8	1041.0	669.0
77.5°	59.9	63.2	79.5	101.5	104.9	226.9	636.9	681.3	685.2	543.5	280.2
80°	27.4	31.1	43.9	58.0	55.9	79.0	224.6	235.0	277.2	172.6	88.4
82.5°	16.2	17.8	29.1	28.8	23.8	38.4	80.8	82.9	70.4	63.2	37.7
85°	6.5	7.6	12.3	10.9	8.7	12.5	30.4	31.9	30.6	27.5	13.9
87.5°	0.0	0.0	0.0	0.0	0.2	0.3	2.8	2.9	4.2	7.6	4.2
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°	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7	370.7
2.5°	373.4	372.5	377.3	381.1	382.7	384.3	382.8	382.4	382.4	379.1	377.5
5°	377.5	378.0	384.6	387.7	387.7	386.4	382.5	379.8	378.8	374.6	373.4
7.5°	385.1	387.2	393.4	393.2	388.7	381.5	371.8	364.4	357.6	354.7	352.9
10°	397.6	400.3	404.5	397.7	385.1	366.3	345.8	329.6	319.8	312.1	312.1
12.5°	411.8	414.4	413.6	397.9	371.8	336.7	307.0	288.4	274.8	267.7	267.7
15°	426.1	428.2	419.4	390.4	344.1	297.3	264.9	242.6	230.8	224.1	224.1
17.5°	440.5	440.3	421.9	373.3	308.0	253.8	222.0	204.7	200.6	199.5	199.4
20°	454.4	450.7	418.8	344.6	266.1	209.9	189.8	190.9	196.9	199.5	199.8
22.5°	470.1	460.9	409.7	308.0	218.5	179.4	180.7	190.1	198.9	202.8	203.2
25°	486.2	469.6	394.5	265.1	178.6	168.3	178.3	188.8	198.7	203.7	204.2
27.5°	492.6	469.6	368.6	215.4	157.4	163.6	174.6	184.8	195.1	201.0	202.1
30°	498.0	465.6	332.3	170.5	148.7	159.0	168.6	178.0	188.2	195.3	196.6
32.5°	505.4	462.0	288.4	143.3	144.6	154.7	161.3	169.2	178.5	183.2	182.7
35°	514.2	456.5	235.5	130.4	141.2	150.9	155.6	160.3	156.1	156.0	156.4
37.5°	526.6	451.7	189.3	124.5	138.9	148.3	152.2	142.2	136.4	133.9	133.0
40°	544.6	449.7	149.3	121.1	138.6	148.2	145.4	129.9	121.9	113.5	113.4
42.5°	567.3	448.3	123.4	119.5	139.8	151.9	136.0	121.8	105.4	101.7	101.4
45°	596.4	446.0	110.4	119.2	142.5	154.8	135.1	110.6	99.4	97.8	97.8
47.5°	631.6	442.4	104.6	119.2	145.6	153.5	132.1	108.2	96.7	98.5	99.6
50°	671.9	437.9	101.5	118.9	148.7	153.5	126.0	107.7	96.0	105.3	109.0
52.5°	715.0	432.7	99.4	117.6	150.8	153.7	126.3	109.3	96.7	106.9	110.0
55°	762.6	431.9	96.5	114.8	151.4	149.5	127.1	112.9	97.7	96.8	97.0
57.5°	822.7	441.6	94.4	110.8	148.8	140.9	128.7	115.5	96.5	96.7	97.8
60°	885.5	459.9	96.2	106.9	143.5	132.8	129.9	114.2	91.0	88.4	88.7
62.5°	939.0	473.8	97.7	105.1	135.7	125.7	128.7	111.3	87.9	87.3	88.7
65°	961.3	462.4	94.1	101.4	124.4	116.9	126.3	107.5	85.3	82.9	83.1
67.5°	936.5	408.4	87.1	93.1	111.6	105.7	122.4	102.7	81.8	78.9	78.2
70°	800.0	300.1	75.1	80.0	96.0	92.6	116.4	96.4	76.1	74.0	72.6
72.5°	644.7	212.5	62.3	63.6	75.3	78.1	106.1	88.4	69.6	63.6	61.5
75°	448.7	133.4	52.0	50.7	54.4	59.6	82.8	73.4	60.1	53.8	51.8
77.5°	193.0	68.5	40.6	40.0	36.3	41.3	63.5	61.2	50.4	43.1	41.9
80°	64.6	39.7	29.3	28.2	24.1	29.0	44.7	48.9	39.5	31.9	30.0
82.5°	32.4	23.0	18.6	16.8	16.2	18.3	26.4	30.4	27.4	22.0	18.6
85°	15.9	13.1	10.2	10.0	8.4	7.9	11.0	13.0	12.3	9.1	8.6
87.5°	5.8	5.2	3.2	2.6	1.6	1.1	0.6	0.6	0.5	0.5	0.5
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)