

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: P629086

Luminaire Tested: GWS-SA1A-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629086  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-830-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

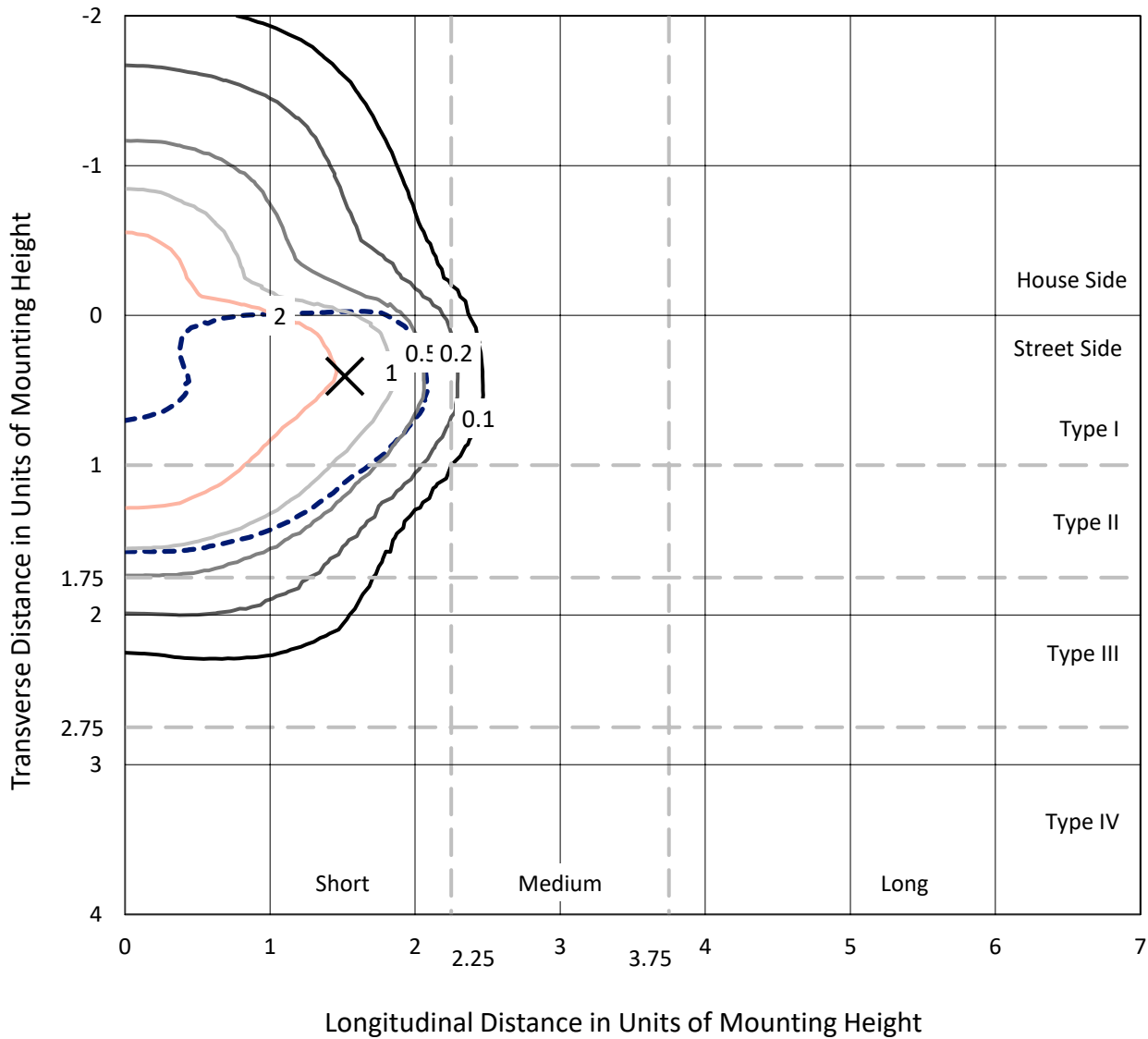
Lumens per Lamp: N/A  
Luminaire Lumens: 1883.4 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

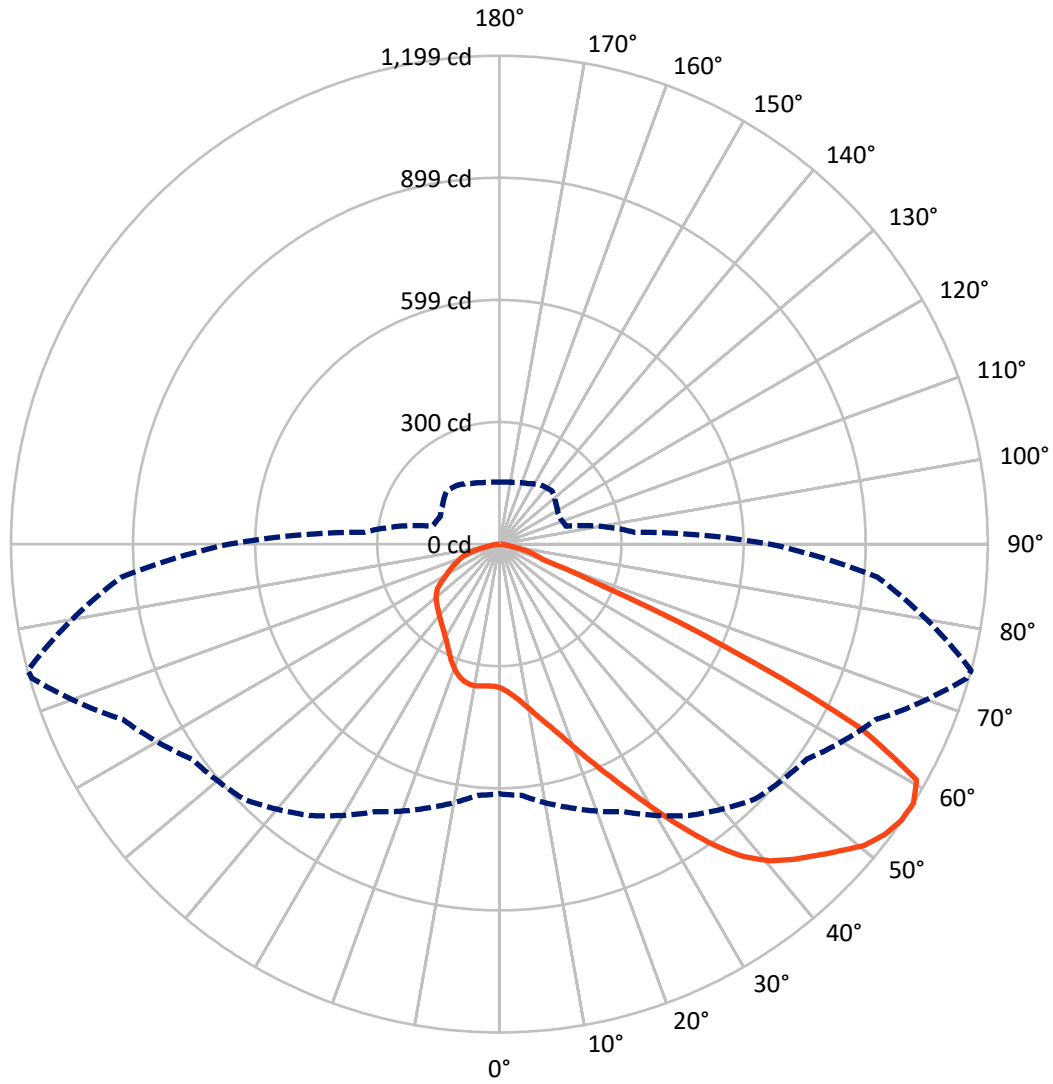
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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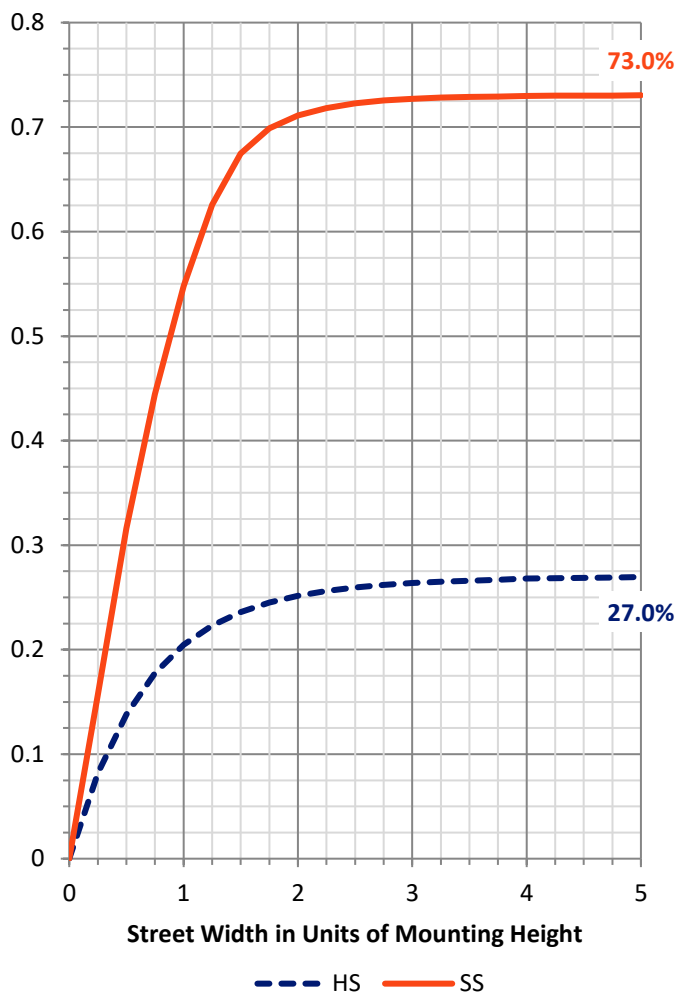
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	509.5	0.0	509.5
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	1373.9	0.0	1373.9
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	1883.4	0.0	1883.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.3	1.9
10°-20°	112.4	6.0
20°-30°	199.3	10.6
30°-40°	305.1	16.2
40°-50°	424.8	22.6
50°-60°	486.7	25.8
60°-70°	250.1	13.3
70°-80°	63.0	3.3
80°-90°	6.7	0.4
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°	1883.4	100.0
0°-180°	1883.4	100.0

**Coefficient of Utilization**



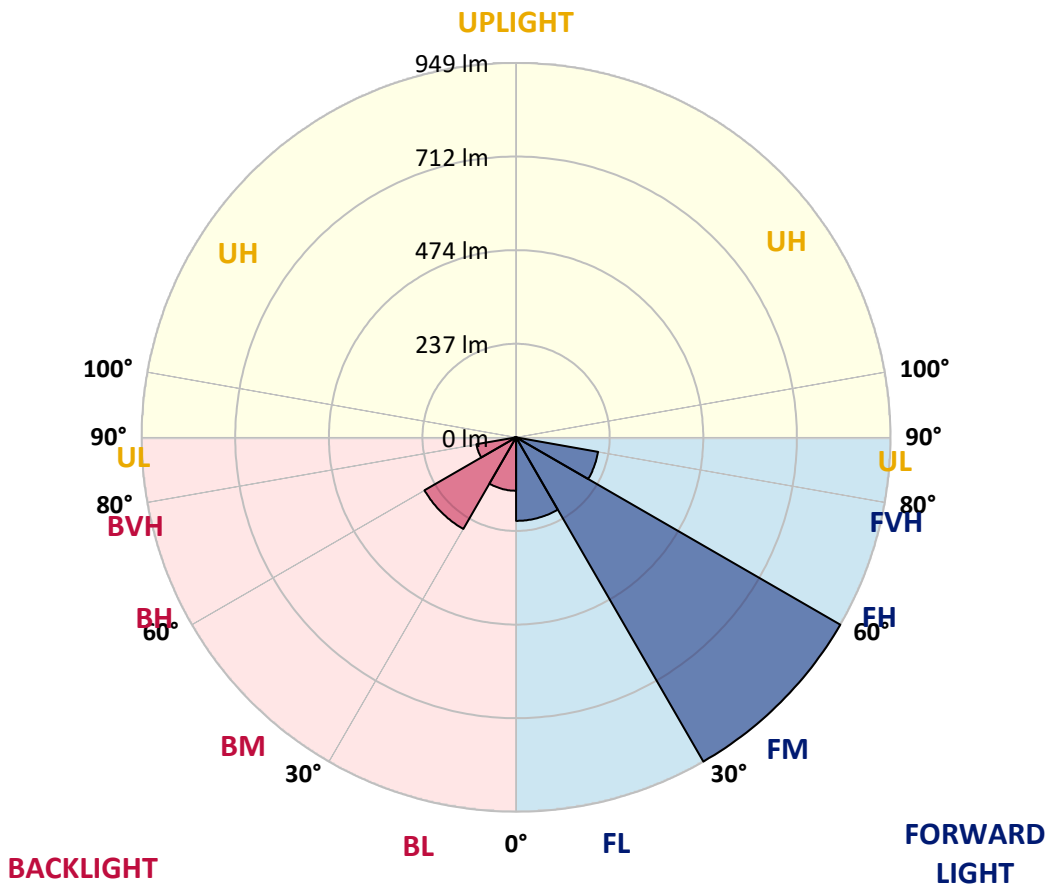
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.6	11.2			
FM (30°-60°)	948.7	50.4			
FH (60°-80°)	211.1	11.2			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	135.4	7.2	B1/500		
BM (30°-60°)	267.9	14.2	B1/1000		
BH (60°-80°)	102.0	5.4	B0/110		G0/110
BVH (80°-90°)	4.2	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7
2.5°	379.0	379.9	379.0	380.6	377.3	375.9	372.3	367.0	362.8	362.1	357.4
5°	408.4	410.5	409.2	408.6	404.2	401.0	395.6	384.9	376.2	374.9	365.7
7.5°	427.4	428.8	428.8	429.3	427.7	424.0	418.3	405.7	393.4	391.4	377.5
10°	433.7	434.8	436.9	441.0	444.2	445.3	441.6	429.5	414.4	412.5	393.0
12.5°	435.1	436.4	439.7	447.1	456.0	464.1	464.8	455.9	439.0	436.9	411.0
15°	437.9	439.2	443.6	452.8	465.9	481.5	491.0	484.9	466.2	464.0	431.4
17.5°	437.6	439.0	445.5	457.8	475.5	498.0	516.4	519.0	499.8	495.9	454.6
20°	436.8	438.1	445.0	460.1	481.9	512.9	546.2	559.7	539.0	535.4	481.6
22.5°	443.2	444.7	450.0	462.5	485.3	524.4	573.8	606.2	585.4	580.4	512.7
25°	457.8	459.9	463.2	471.7	491.5	534.6	601.9	658.8	637.6	631.6	546.6
27.5°	480.3	482.9	487.5	491.5	505.3	547.5	630.0	717.7	696.5	690.2	582.4
30°	507.9	511.3	517.1	519.8	529.2	566.6	660.4	778.5	766.2	757.4	622.7
32.5°	545.9	550.6	556.1	556.9	562.6	595.6	690.5	838.7	838.5	832.4	668.5
35°	595.5	600.5	601.6	602.8	605.5	635.5	727.0	893.6	914.8	907.7	718.4
37.5°	649.6	656.8	658.6	653.6	657.5	683.4	767.9	937.7	981.2	973.6	766.6
40°	707.4	710.3	715.1	707.2	712.1	738.3	808.1	965.8	1030.8	1022.7	804.7
42.5°	748.8	754.2	761.5	758.5	761.3	785.3	836.3	979.4	1066.1	1058.0	832.1
45°	793.9	795.5	800.2	799.5	801.1	823.5	856.5	985.4	1097.7	1090.4	855.4
47.5°	833.0	835.5	838.5	835.0	831.4	846.0	873.0	990.6	1134.1	1125.4	879.8
50°	870.8	872.9	876.6	866.2	853.0	856.7	881.1	997.7	1168.3	1162.1	899.1
52.5°	877.7	880.0	897.5	899.6	882.6	869.5	895.4	1013.5	1188.4	1184.5	906.1
55°	790.1	794.2	829.0	869.0	910.9	906.7	918.2	1021.7	1196.3	1197.3	918.6
57.5°	613.3	619.1	670.0	724.9	813.1	886.2	921.1	1019.6	1193.5	1198.9	931.3
60°	402.3	405.7	465.9	527.5	619.0	720.0	824.5	981.7	1169.1	1176.7	928.1
62.5°	242.9	246.8	295.2	341.9	395.8	463.3	559.2	789.0	979.9	996.9	743.3
65°	169.6	174.7	217.2	255.5	274.2	260.2	283.2	440.7	610.5	617.7	454.3
67.5°	122.9	126.5	161.3	207.0	227.5	183.8	140.1	195.1	265.9	268.5	187.4
70°	80.5	84.5	116.1	157.6	185.8	149.0	104.8	105.6	111.9	113.2	108.8
72.5°	44.2	46.6	71.7	104.6	109.8	89.1	81.8	87.8	92.1	92.1	93.3
75°	22.8	24.9	29.3	34.5	41.6	48.7	58.9	67.9	72.6	72.9	72.4
77.5°	11.7	12.5	15.7	17.0	18.6	21.7	28.2	36.1	40.3	41.9	41.6
80°	5.5	5.8	6.6	7.8	9.6	12.1	15.2	18.1	20.7	21.1	22.8
82.5°	2.9	3.2	3.6	4.2	5.2	6.5	8.9	10.7	12.3	12.6	14.1
85°	1.1	1.3	1.5	1.6	2.3	2.8	3.7	5.0	6.2	6.2	7.3
87.5°	0.0	0.0	0.0	0.0	0.2	0.3	0.6	0.8	1.1	1.1	1.9
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°	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7	352.7
2.5°	356.3	351.6	349.5	346.1	343.3	340.2	337.8	336.0	334.9	334.3	333.6
5°	362.1	355.0	349.3	342.5	337.8	333.3	329.6	327.0	325.7	324.7	324.1
7.5°	371.2	361.6	350.9	340.4	332.1	324.9	320.2	317.4	315.6	315.0	314.5
10°	383.6	370.4	352.7	336.0	323.7	315.8	312.6	311.3	311.4	311.1	310.9
12.5°	397.7	379.6	352.2	328.3	314.7	310.0	310.1	312.2	314.7	315.3	315.5
15°	413.0	388.7	347.5	318.2	307.5	308.0	312.2	317.2	321.8	323.6	323.9
17.5°	429.5	396.3	339.0	307.2	301.7	306.9	314.7	322.9	329.6	332.5	333.3
20°	447.9	402.8	326.8	296.4	296.2	304.8	316.1	327.0	335.4	339.3	339.9
22.5°	467.5	406.8	311.9	286.3	290.5	302.0	315.0	326.3	335.2	339.1	339.9
25°	487.3	408.1	295.5	277.1	284.7	297.7	309.5	318.5	327.0	330.4	331.0
27.5°	505.8	404.4	280.0	269.2	279.4	291.2	299.1	304.0	309.8	312.4	312.9
30°	524.5	396.9	266.9	262.8	273.4	282.3	285.8	286.2	288.4	288.4	288.7
32.5°	543.5	385.9	255.4	256.7	265.9	271.7	272.2	268.5	265.8	261.2	261.1
35°	565.3	374.7	246.0	249.7	257.2	260.7	259.3	252.1	245.5	238.1	237.7
37.5°	585.6	363.2	238.1	242.6	247.3	249.9	246.5	237.9	232.4	224.8	223.6
40°	602.3	352.9	230.4	235.1	237.4	239.7	234.2	227.2	228.0	223.8	223.6
42.5°	612.0	342.8	223.3	226.9	228.3	230.0	225.1	219.9	224.3	221.1	221.2
45°	619.1	334.1	216.8	218.1	221.7	224.1	219.6	213.8	214.7	202.3	199.4
47.5°	627.2	329.2	210.7	209.4	215.7	219.9	213.0	204.5	198.7	186.4	185.3
50°	635.8	327.5	204.2	200.6	208.3	212.3	204.2	193.7	186.1	179.4	178.8
52.5°	638.7	327.3	196.1	190.1	197.7	203.4	196.6	185.9	176.8	170.4	170.0
55°	650.2	332.0	185.8	175.7	182.8	194.5	189.5	174.1	166.8	163.9	163.6
57.5°	663.6	332.8	169.4	160.0	169.9	183.6	177.3	164.1	156.1	152.6	152.2
60°	658.1	312.9	151.9	148.0	158.9	173.4	167.6	156.1	146.9	143.5	143.2
62.5°	501.5	220.9	139.1	137.7	147.0	158.7	157.6	145.6	136.8	134.4	134.1
65°	301.7	155.1	126.8	126.6	133.3	144.5	145.9	136.2	127.0	123.6	123.6
67.5°	149.2	118.7	112.9	112.1	116.3	124.2	130.4	122.4	114.7	111.4	110.9
70°	105.4	104.6	102.7	100.4	101.2	104.5	107.0	100.4	92.1	88.9	88.3
72.5°	91.2	91.3	90.0	88.3	87.6	85.3	83.1	78.2	73.2	69.8	70.1
75°	70.8	71.1	71.9	71.3	69.5	67.0	64.6	58.5	54.4	51.2	50.5
77.5°	41.3	42.9	45.5	44.9	45.2	41.8	40.8	34.8	31.1	28.8	28.3
80°	23.3	24.3	25.4	26.2	25.3	23.8	21.7	18.5	17.3	15.7	15.4
82.5°	14.1	15.1	15.5	16.2	15.9	13.9	12.3	10.2	9.2	8.4	8.3
85°	7.1	7.8	8.3	8.6	7.6	6.3	5.7	4.5	3.9	3.4	3.4
87.5°	1.8	1.9	2.3	1.9	1.8	0.8	0.6	0.2	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)