

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: P628646

Luminaire Tested: GWS-SA1A-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628646  
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-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

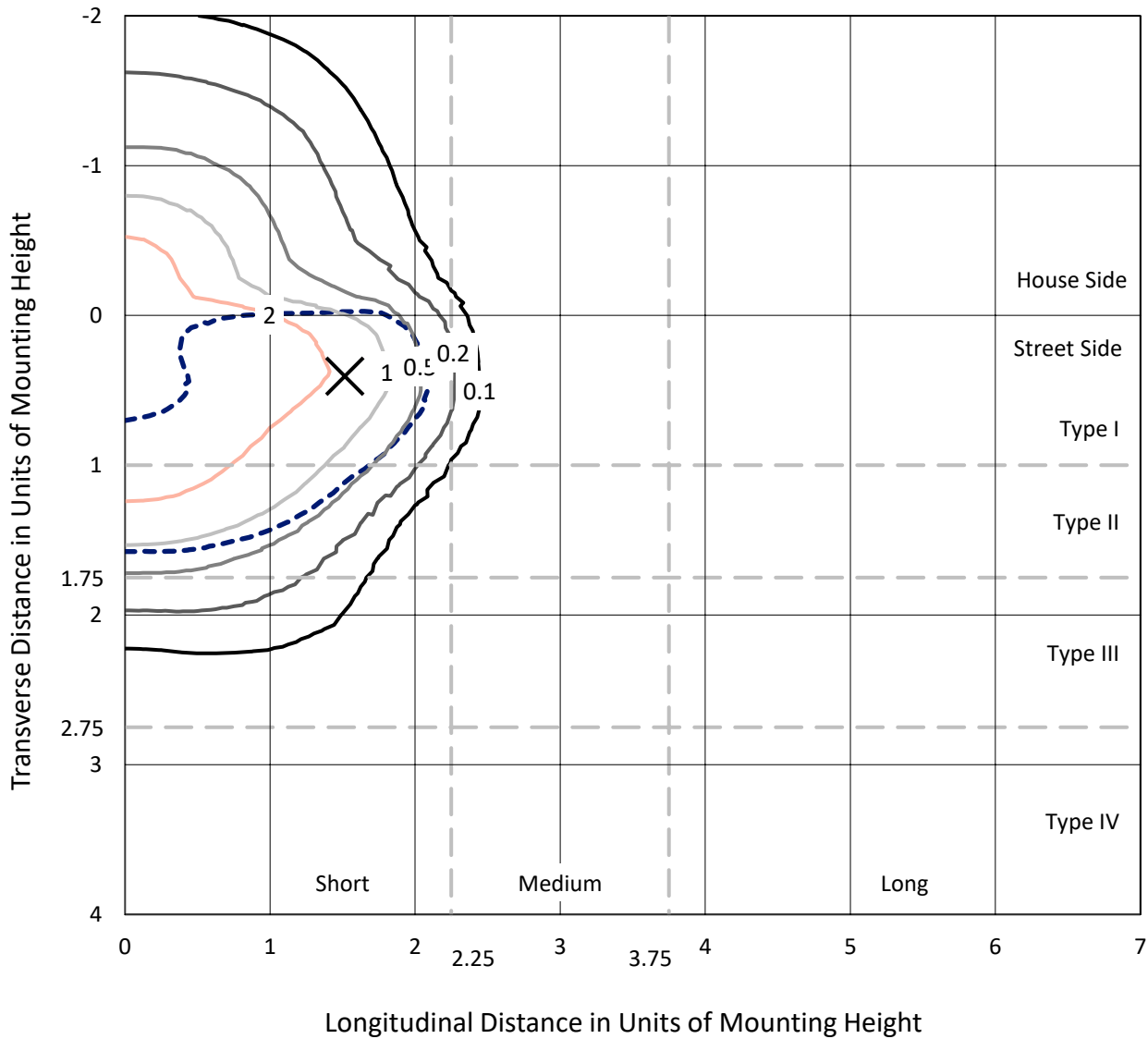
Lumens per Lamp: N/A  
Luminaire Lumens: 1746.4 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

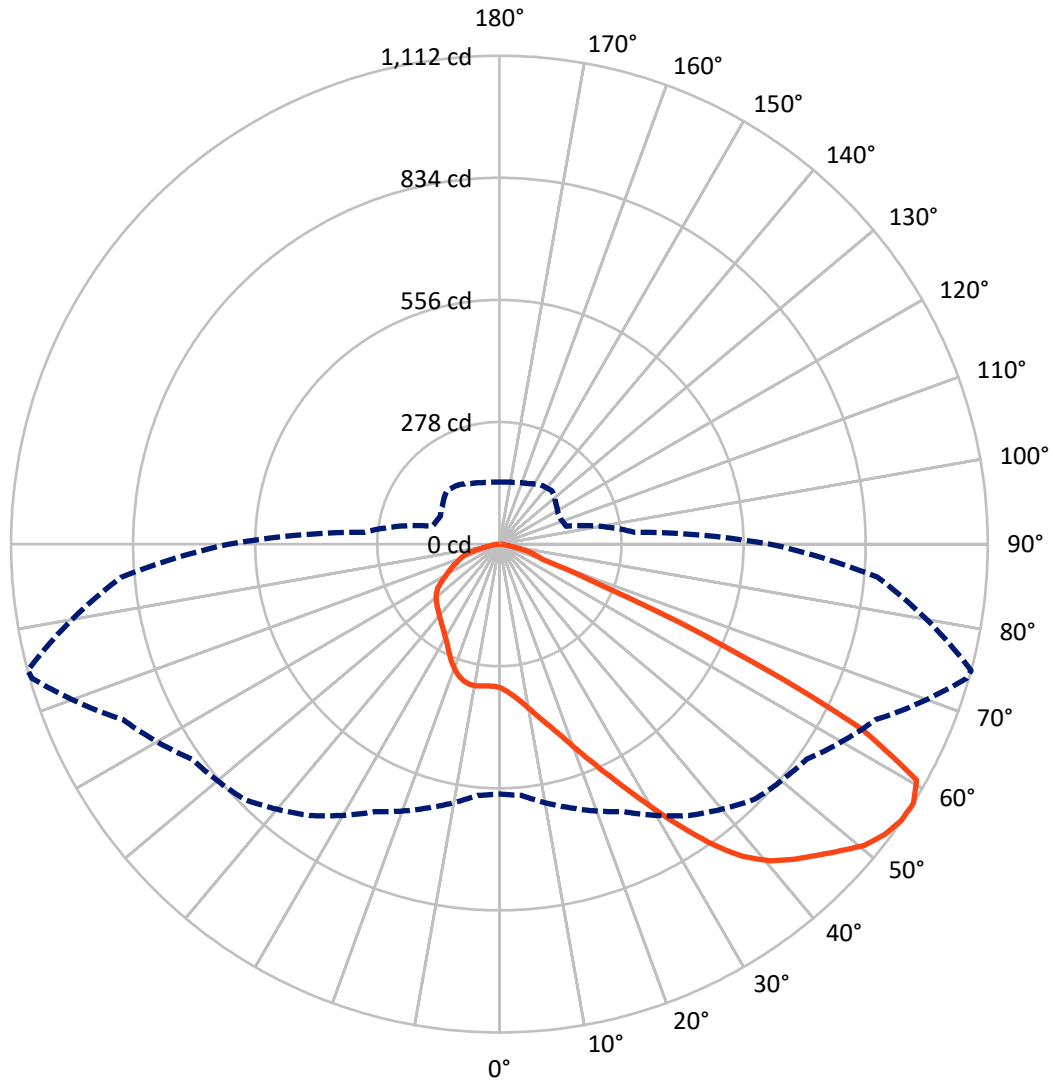
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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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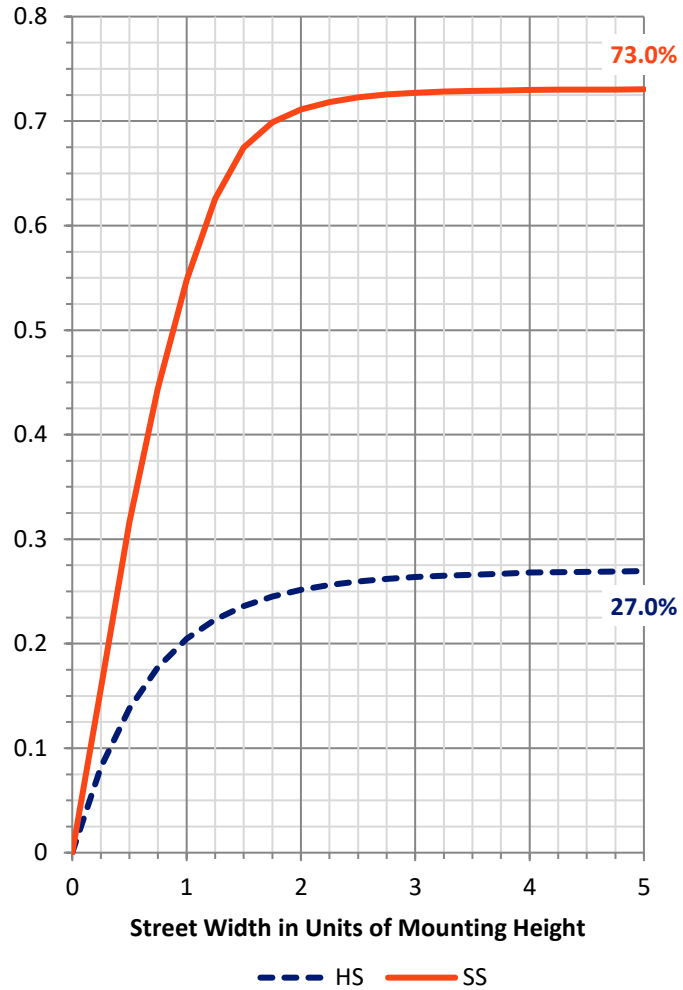
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	472.4	0.0	472.4
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	1274.0	0.0	1274.0
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	1746.4	0.0	1746.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.7	1.9
10°-20°	104.2	6.0
20°-30°	184.8	10.6
30°-40°	282.9	16.2
40°-50°	393.9	22.6
50°-60°	451.3	25.8
60°-70°	231.9	13.3
70°-80°	58.4	3.3
80°-90°	6.3	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°	1746.4	100.0
0°-180°	1746.4	100.0

**Coefficient of Utilization**



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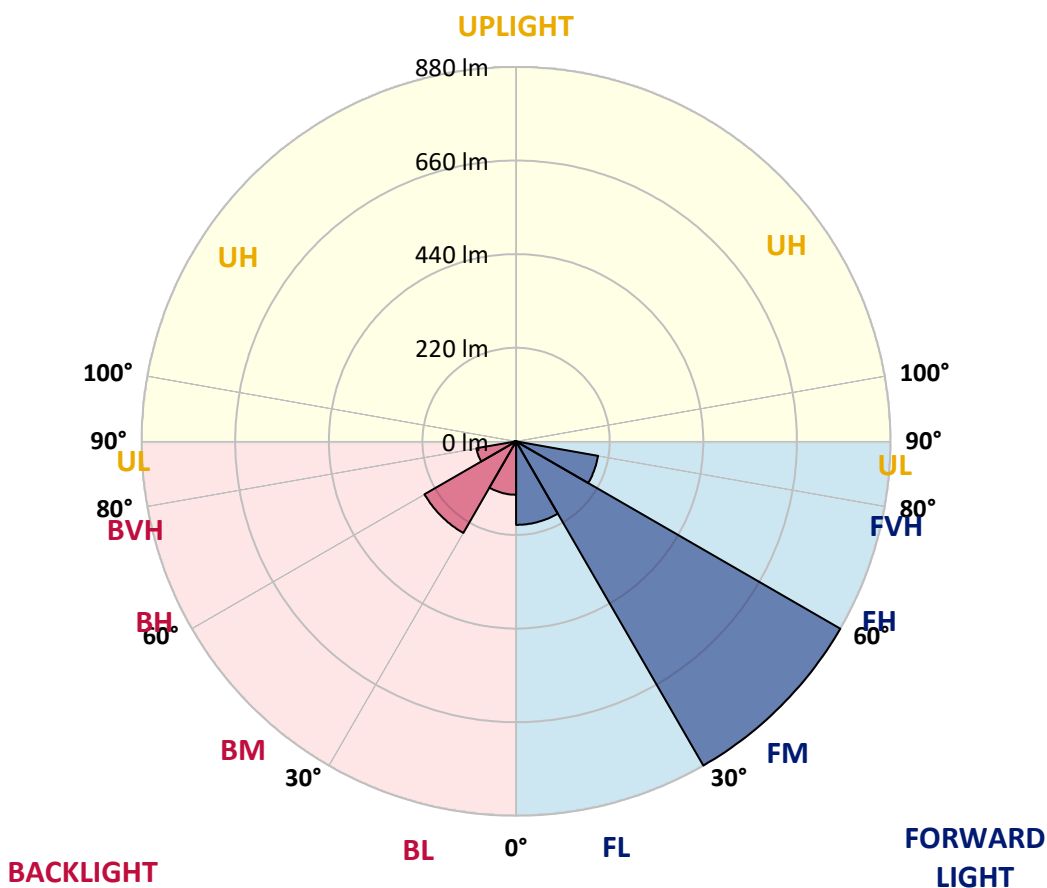
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.2	11.2			
FM (30°-60°)	879.7	50.4			
FH (60°-80°)	195.8	11.2			G0/660
FVH (80°-90°)	2.3	0.1			G0/10
BL (0°-30°)	125.5	7.2	B1/500		
BM (30°-60°)	248.5	14.2	B1/1000		
BH (60°-80°)	94.5	5.4	B0/110		G0/110
BVH (80°-90°)	3.9	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°	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1
2.5°	351.4	352.3	351.4	352.9	349.9	348.5	345.2	340.3	336.4	335.8	331.4
5°	378.7	380.7	379.5	378.9	374.8	371.8	366.9	356.9	348.8	347.6	339.1
7.5°	396.3	397.6	397.6	398.1	396.6	393.1	387.9	376.2	364.8	362.9	350.0
10°	402.1	403.2	405.1	408.9	411.9	413.0	409.5	398.2	384.3	382.5	364.4
12.5°	403.5	404.7	407.7	414.6	422.9	430.4	431.0	422.7	407.1	405.1	381.1
15°	406.0	407.2	411.3	419.9	432.0	446.4	455.3	449.6	432.3	430.2	400.0
17.5°	405.7	407.1	413.1	424.5	440.9	461.8	478.9	481.3	463.4	459.8	421.5
20°	405.0	406.2	412.7	426.6	446.9	475.6	506.5	519.0	499.7	496.4	446.6
22.5°	411.0	412.4	417.3	428.9	450.0	486.2	532.0	562.1	542.8	538.2	475.4
25°	424.5	426.5	429.5	437.4	455.7	495.7	558.2	610.9	591.2	585.6	506.8
27.5°	445.4	447.8	452.0	455.7	468.5	507.7	584.1	665.5	645.9	640.0	540.0
30°	470.9	474.1	479.5	482.0	490.7	525.4	612.4	721.8	710.4	702.3	577.4
32.5°	506.2	510.6	515.7	516.4	521.7	552.3	640.3	777.7	777.6	771.8	619.9
35°	552.2	556.8	557.9	558.9	561.5	589.2	674.1	828.6	848.3	841.7	666.1
37.5°	602.3	609.1	610.7	606.1	609.7	633.7	712.1	869.5	909.8	902.8	710.9
40°	655.9	658.6	663.1	655.8	660.3	684.6	749.3	895.6	955.8	948.3	746.2
42.5°	694.4	699.3	706.1	703.4	705.9	728.1	775.5	908.2	988.5	981.0	771.5
45°	736.1	737.6	742.0	741.4	742.9	763.6	794.2	913.8	1017.8	1011.1	793.2
47.5°	772.4	774.7	777.6	774.2	770.9	784.5	809.5	918.6	1051.6	1043.5	815.8
50°	807.4	809.4	812.8	803.2	790.9	794.4	817.0	925.2	1083.3	1077.6	833.7
52.5°	813.9	816.0	832.2	834.2	818.4	806.2	830.3	939.7	1101.9	1098.3	840.2
55°	732.7	736.4	768.7	805.8	844.7	840.8	851.4	947.4	1109.3	1110.2	851.7
57.5°	568.7	574.1	621.2	672.1	754.0	821.7	854.1	945.4	1106.7	1111.7	863.6
60°	373.0	376.2	432.0	489.1	573.9	667.6	764.5	910.3	1084.0	1091.1	860.6
62.5°	225.2	228.9	273.8	317.0	367.0	429.6	518.5	731.6	908.6	924.4	689.3
65°	157.2	162.0	201.4	237.0	254.2	241.3	262.6	408.6	566.1	572.7	421.2
67.5°	114.0	117.3	149.6	191.9	211.0	170.4	129.9	180.9	246.6	249.0	173.7
70°	74.6	78.4	107.7	146.1	172.2	138.2	97.2	97.9	103.8	105.0	100.9
72.5°	41.0	43.2	66.5	97.0	101.8	82.6	75.8	81.4	85.4	85.4	86.5
75°	21.2	23.1	27.2	32.0	38.6	45.2	54.7	62.9	67.3	67.6	67.1
77.5°	10.8	11.6	14.6	15.8	17.3	20.1	26.1	33.5	37.4	38.9	38.6
80°	5.1	5.4	6.2	7.2	8.9	11.3	14.1	16.8	19.2	19.5	21.2
82.5°	2.7	3.0	3.3	3.9	4.8	6.0	8.3	9.9	11.4	11.7	13.1
85°	1.1	1.2	1.4	1.5	2.1	2.6	3.5	4.7	5.7	5.7	6.8
87.5°	0.0	0.0	0.0	0.0	0.2	0.3	0.6	0.8	1.1	1.1	1.8
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°	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1	327.1
2.5°	330.4	326.0	324.1	320.9	318.3	315.5	313.2	311.6	310.5	309.9	309.3
5°	335.8	329.2	323.9	317.6	313.2	309.0	305.6	303.2	302.0	301.1	300.5
7.5°	344.2	335.3	325.4	315.6	308.0	301.2	296.9	294.3	292.7	292.1	291.6
10°	355.7	343.4	327.1	311.6	300.2	292.8	289.8	288.6	288.8	288.5	288.3
12.5°	368.8	352.0	326.6	304.4	291.8	287.4	287.6	289.5	291.8	292.4	292.5
15°	382.9	360.4	322.3	295.1	285.2	285.6	289.5	294.2	298.4	300.0	300.3
17.5°	398.2	367.5	314.3	284.9	279.8	284.6	291.8	299.4	305.6	308.3	309.0
20°	415.4	373.5	303.0	274.8	274.7	282.6	293.1	303.2	311.0	314.6	315.2
22.5°	433.5	377.2	289.2	265.5	269.4	280.1	292.1	302.6	310.8	314.4	315.2
25°	451.8	378.4	274.1	256.9	264.0	276.0	287.0	295.4	303.2	306.3	306.9
27.5°	469.0	375.0	259.6	249.6	259.0	270.0	277.4	281.9	287.3	289.7	290.1
30°	486.4	368.1	247.5	243.7	253.5	261.7	265.0	265.3	267.4	267.4	267.7
32.5°	504.0	357.8	236.8	238.0	246.6	252.0	252.4	249.0	246.4	242.2	242.1
35°	524.2	347.5	228.1	231.6	238.5	241.8	240.4	233.8	227.6	220.7	220.4
37.5°	543.0	336.8	220.7	224.9	229.3	231.7	228.6	220.6	215.5	208.4	207.4
40°	558.5	327.2	213.7	218.0	220.1	222.2	217.1	210.7	211.4	207.5	207.4
42.5°	567.5	317.9	207.1	210.4	211.7	213.2	208.7	203.9	208.0	205.0	205.1
45°	574.1	309.8	201.1	202.3	205.6	207.8	203.6	198.2	199.1	187.6	184.9
47.5°	581.6	305.3	195.4	194.2	200.0	203.9	197.5	189.7	184.3	172.8	171.8
50°	589.5	303.6	189.4	186.1	193.1	196.9	189.4	179.6	172.5	166.4	165.8
52.5°	592.2	303.5	181.8	176.3	183.4	188.6	182.3	172.4	164.0	158.0	157.7
55°	602.9	307.8	172.2	162.9	169.5	180.3	175.7	161.4	154.7	152.0	151.7
57.5°	615.4	308.6	157.1	148.4	157.5	170.3	164.4	152.1	144.8	141.5	141.2
60°	610.3	290.1	140.9	137.3	147.3	160.8	155.4	144.8	136.2	133.0	132.7
62.5°	465.1	204.8	129.0	127.6	136.3	147.2	146.1	135.0	126.9	124.6	124.3
65°	279.8	143.9	117.6	117.4	123.6	133.9	135.3	126.3	117.7	114.6	114.6
67.5°	138.3	110.1	104.7	103.9	107.8	115.2	120.9	113.5	106.3	103.3	102.9
70°	97.8	97.0	95.2	93.1	93.9	96.9	99.3	93.1	85.4	82.4	81.8
72.5°	84.5	84.7	83.5	81.8	81.2	79.1	77.0	72.5	67.9	64.7	65.0
75°	65.6	65.9	66.7	66.1	64.4	62.2	59.9	54.2	50.5	47.5	46.9
77.5°	38.3	39.8	42.2	41.6	41.9	38.7	37.8	32.3	28.8	26.7	26.3
80°	21.6	22.5	23.6	24.3	23.4	22.1	20.1	17.1	16.1	14.6	14.3
82.5°	13.1	14.0	14.4	15.0	14.7	12.9	11.4	9.5	8.6	7.8	7.7
85°	6.6	7.2	7.7	8.0	7.1	5.9	5.3	4.2	3.6	3.2	3.2
87.5°	1.7	1.8	2.1	1.8	1.7	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)