

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: P628855

Luminaire Tested: GWS-SA1A-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628855  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

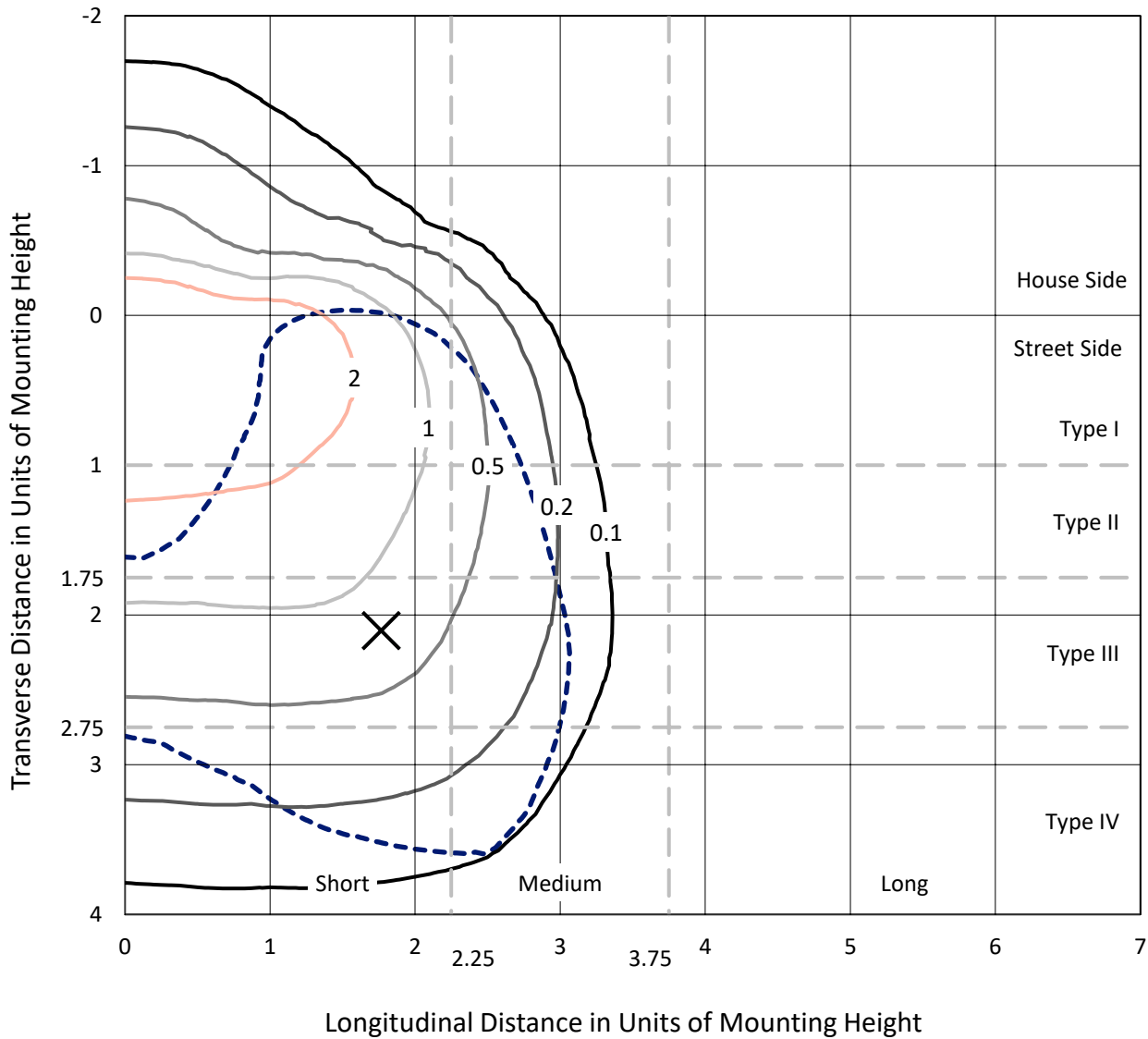
Lumens per Lamp: N/A  
Luminaire Lumens: 2731.1 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

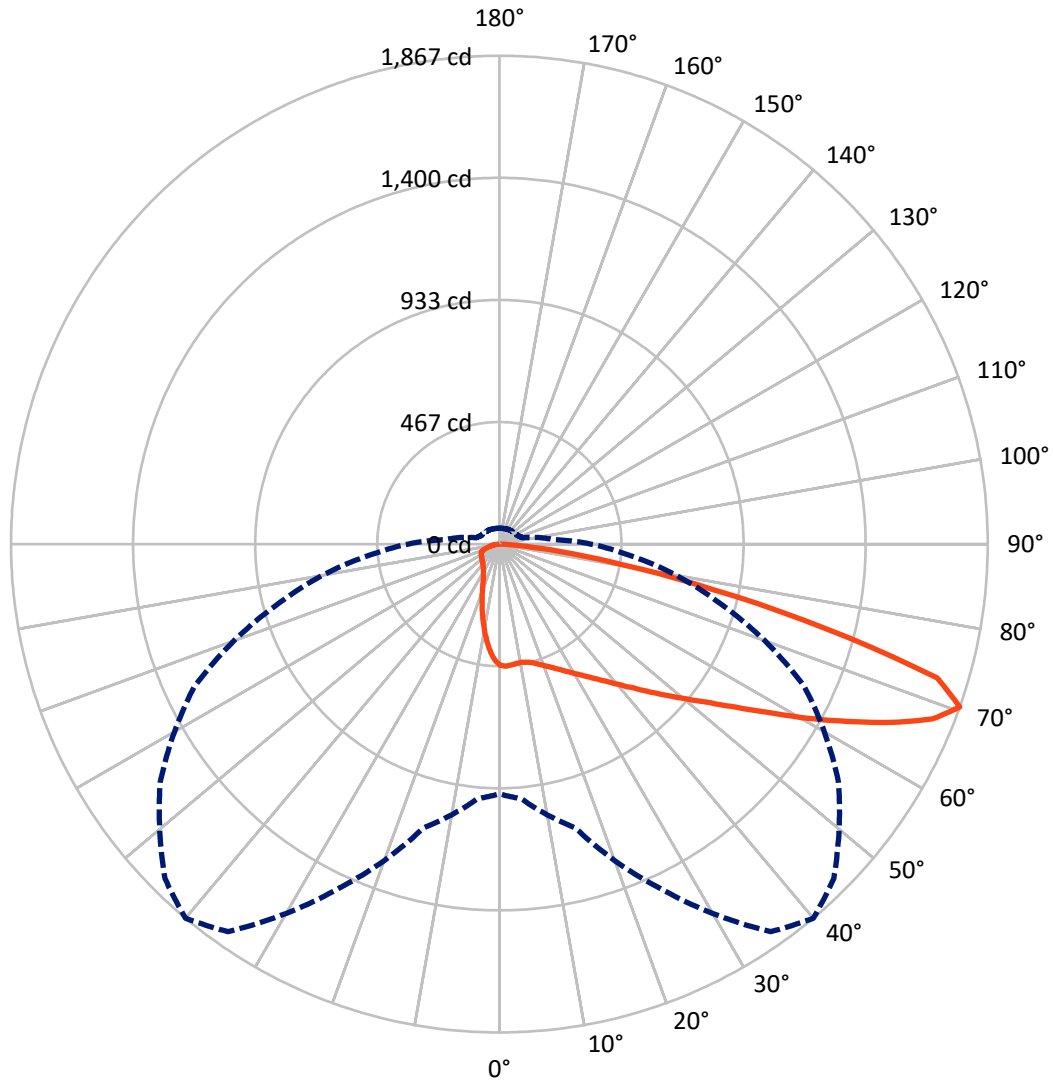
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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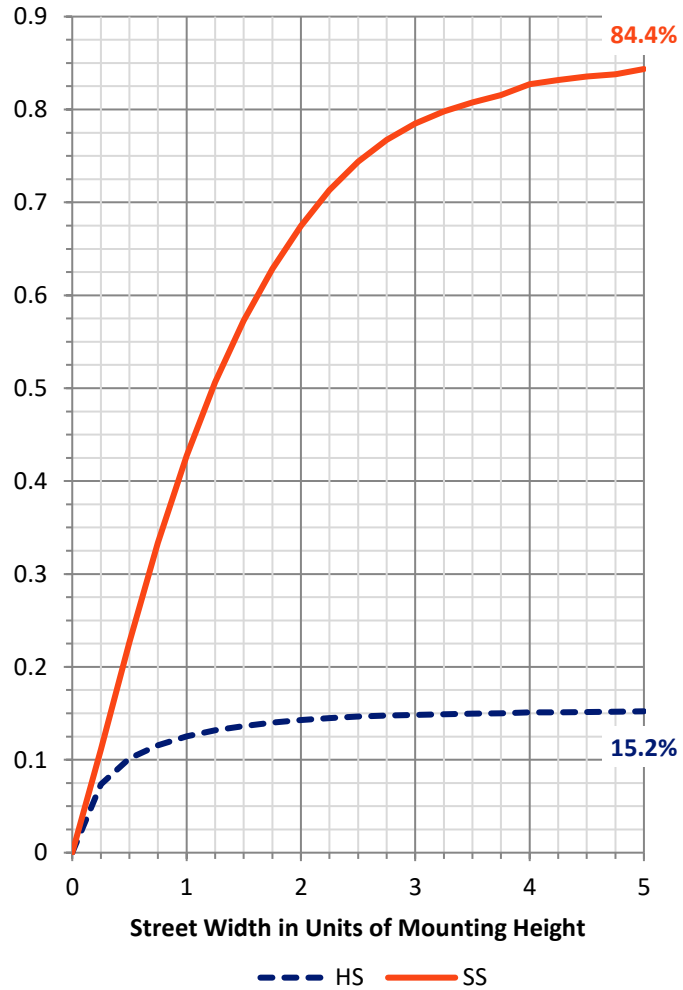
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	420.7	0.0	420.7
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	2310.4	0.0	2310.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	2731.1	0.0	2731.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.0	1.5
10°-20°	106.8	3.9
20°-30°	167.7	6.1
30°-40°	252.1	9.2
40°-50°	389.1	14.2
50°-60°	577.9	21.2
60°-70°	728.4	26.7
70°-80°	421.3	15.4
80°-90°	46.8	1.7
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°	2731.1	100.0
0°-180°	2731.1	100.0

**Coefficient of Utilization**



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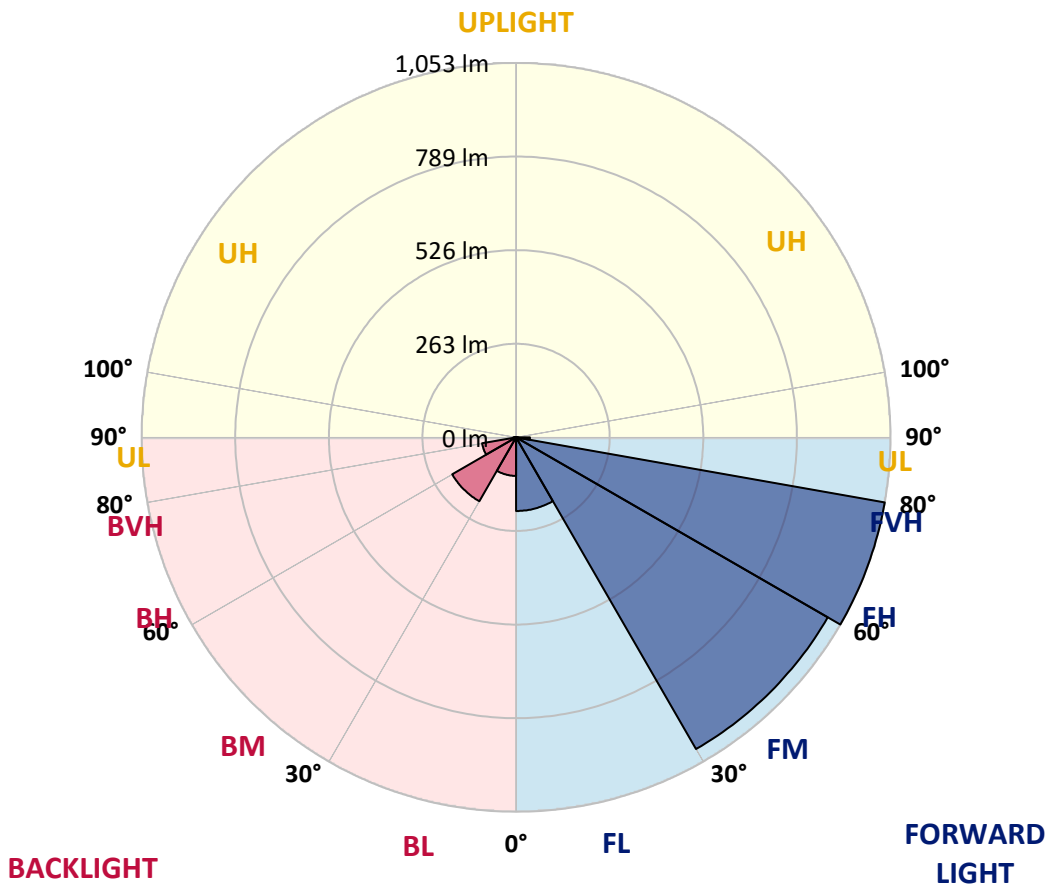
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.0	7.6			
FM (30°-60°)	1011.8	37.0			
FH (60°-80°)	1052.6	38.5			G1/1800
FVH (80°-90°)	38.9	1.4			G1/100
BL (0°-30°)	108.4	4.0	B0/110		
BM (30°-60°)	207.3	7.6	B0/220		
BH (60°-80°)	97.1	3.6	B0/110		G0/110
BVH (80°-90°)	7.8	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8
2.5°	466.6	467.4	468.1	468.9	468.5	467.2	468.3	468.3	466.0	463.6	461.3
5°	467.2	468.3	468.1	467.8	466.2	464.2	464.2	463.0	459.1	455.2	451.5
7.5°	466.0	465.8	465.6	465.0	463.2	460.9	460.5	458.1	453.0	447.7	442.4
10°	460.5	460.3	460.9	462.3	461.9	459.9	459.9	457.7	451.7	445.2	438.3
12.5°	456.0	456.0	458.5	462.3	463.8	463.0	463.2	461.5	454.8	447.1	438.9
15°	456.6	456.8	462.1	468.5	471.1	470.5	470.7	468.9	461.3	453.6	442.6
17.5°	460.7	461.7	470.9	479.7	483.1	482.3	480.9	477.8	469.3	460.5	447.1
20°	469.3	470.9	482.7	493.7	497.8	496.0	493.5	487.4	478.0	468.5	451.9
22.5°	486.2	487.2	500.3	511.1	514.3	512.1	507.2	498.4	487.6	477.6	457.9
25°	510.0	511.3	523.7	533.7	532.9	530.2	523.5	512.7	499.9	489.3	466.4
27.5°	538.4	540.4	552.7	560.6	555.3	551.4	543.9	530.8	516.4	506.8	479.5
30°	569.4	570.2	580.6	588.5	580.4	575.1	565.9	551.8	538.8	531.7	499.0
32.5°	599.3	600.2	609.1	613.6	605.0	601.2	593.2	578.3	569.2	565.3	528.2
35°	630.9	630.7	638.1	641.9	633.2	631.5	623.4	612.0	610.3	615.4	570.8
37.5°	662.5	660.7	664.6	669.7	664.8	666.4	661.1	657.2	663.6	676.8	627.5
40°	687.8	687.8	691.9	698.2	699.8	707.0	703.9	709.0	729.4	761.0	697.6
42.5°	710.2	710.4	719.0	728.8	740.6	751.6	754.1	767.3	809.5	859.0	785.7
45°	733.7	733.9	745.5	759.8	784.8	805.8	810.7	840.5	900.8	961.2	881.3
47.5°	760.8	758.5	774.7	798.5	834.2	864.3	877.0	919.2	995.4	1069.6	971.4
50°	791.4	786.7	804.6	845.8	889.8	931.2	952.4	1000.7	1096.9	1169.7	1056.2
52.5°	825.8	823.2	841.9	892.1	959.3	1007.0	1035.8	1099.2	1195.6	1269.4	1123.4
55°	868.6	862.3	889.4	953.2	1040.9	1101.6	1135.7	1196.6	1303.5	1359.9	1174.8
57.5°	915.5	908.6	944.9	1029.7	1146.9	1213.6	1256.2	1306.3	1405.0	1429.2	1205.0
60°	966.1	963.8	1006.8	1119.4	1273.3	1350.7	1381.5	1427.0	1493.2	1469.4	1197.4
62.5°	1012.3	1011.5	1074.1	1216.6	1407.2	1492.4	1516.9	1528.9	1556.8	1466.7	1137.5
65°	1061.1	1068.0	1152.6	1329.3	1560.7	1644.3	1654.5	1623.9	1578.3	1397.2	1014.8
67.5°	1067.2	1080.6	1201.9	1434.9	1706.3	1785.2	1777.0	1660.0	1515.1	1203.8	795.4
70°	954.5	977.9	1123.2	1451.0	1808.8	1866.9	1808.0	1582.3	1285.7	872.1	500.3
72.5°	797.5	817.7	946.1	1237.4	1676.5	1750.5	1670.8	1339.3	908.6	500.3	254.8
75°	620.7	644.2	762.6	983.6	1255.1	1284.7	1244.7	934.1	499.4	206.3	115.8
77.5°	378.8	395.7	487.8	666.4	878.2	834.0	706.8	523.7	219.1	98.9	71.6
80°	167.6	178.0	240.3	358.0	507.4	479.7	378.2	223.6	119.9	62.8	49.9
82.5°	89.9	96.6	118.4	141.7	222.8	233.0	189.0	128.8	64.4	35.9	28.5
85°	39.5	43.4	53.8	51.4	73.2	72.0	72.6	88.5	30.8	16.5	18.6
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	2.2	11.8	3.1	4.9	4.3
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°	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8	463.8
2.5°	458.9	455.2	454.2	453.0	450.7	446.9	444.0	440.7	439.3	437.7	437.9
5°	447.5	443.0	438.7	433.2	426.3	418.5	413.2	407.1	403.8	400.8	401.6
7.5°	437.7	430.7	422.0	410.4	397.9	384.1	372.9	364.1	358.2	354.1	356.1
10°	431.6	423.4	408.1	389.2	368.2	347.0	330.9	315.8	306.4	299.1	298.6
12.5°	430.3	419.7	397.5	370.0	339.6	311.3	287.6	267.3	254.8	245.6	249.1
15°	431.6	418.1	388.3	352.3	313.9	275.6	246.3	222.8	207.9	199.6	199.0
17.5°	433.0	416.5	377.9	333.1	287.0	243.2	209.2	184.3	169.0	160.6	160.8
20°	434.2	414.0	365.7	312.1	259.7	213.0	177.8	154.1	140.5	134.3	135.4
22.5°	436.3	411.6	352.7	289.7	231.8	183.9	152.9	133.7	125.6	121.5	121.7
25°	440.1	410.2	339.2	265.2	204.3	160.6	135.8	122.9	117.8	115.4	115.2
27.5°	448.1	411.4	325.2	241.6	179.4	142.9	124.8	116.4	112.9	111.3	111.1
30°	461.3	416.3	312.9	217.5	158.0	129.0	117.2	112.1	110.1	108.7	108.5
32.5°	481.5	425.4	299.7	195.1	140.7	118.8	111.3	108.7	107.2	106.4	106.4
35°	512.1	442.2	286.6	175.5	127.2	110.9	106.6	105.6	104.4	104.0	104.4
37.5°	556.1	468.9	274.8	158.4	117.6	104.8	101.5	101.9	100.9	101.5	102.1
40°	612.0	504.5	264.8	144.3	110.5	100.3	97.0	98.5	97.9	98.5	99.5
42.5°	682.7	548.8	257.3	133.3	105.4	96.6	93.6	95.0	94.6	95.4	96.4
45°	761.6	607.1	253.8	125.6	101.7	94.0	90.7	91.7	91.3	91.9	93.0
47.5°	837.2	660.1	256.9	121.1	98.7	91.7	88.3	88.7	88.5	88.3	88.9
50°	902.5	702.3	265.6	119.7	96.6	89.5	86.2	86.4	85.8	84.6	85.0
52.5°	955.7	736.1	270.9	119.7	95.6	87.0	84.0	84.2	83.0	81.3	81.5
55°	990.7	749.8	266.6	119.5	95.2	85.0	81.7	82.0	80.7	78.7	78.9
57.5°	1000.7	736.5	248.7	117.2	94.8	83.4	79.5	79.9	79.1	76.9	76.9
60°	972.8	688.0	215.9	112.1	93.8	82.4	77.9	78.5	78.1	75.8	75.8
62.5°	899.6	601.8	176.7	104.4	90.9	81.1	76.4	77.7	78.7	77.5	77.3
65°	762.6	482.1	143.7	95.8	87.3	79.1	74.4	77.5	79.7	81.3	81.3
67.5°	572.2	345.1	117.2	86.8	81.7	75.0	71.8	74.6	76.2	77.3	77.9
70°	348.8	203.0	92.3	76.4	73.8	68.9	66.5	63.6	61.4	61.0	61.2
72.5°	170.6	116.2	75.0	65.0	63.0	58.5	53.0	51.8	50.8	50.1	49.9
75°	94.0	80.9	62.0	54.0	50.4	44.8	43.6	41.6	41.2	40.4	40.6
77.5°	66.5	63.8	51.2	43.8	38.3	35.5	36.1	34.7	34.7	34.0	33.8
80°	49.9	50.1	39.3	32.0	28.3	27.3	27.9	27.9	27.5	27.3	27.1
82.5°	31.6	35.7	26.5	20.6	20.2	20.4	20.2	20.0	20.4	19.8	19.6
85°	21.8	25.7	16.1	12.2	12.2	12.0	12.4	12.2	12.6	12.0	12.0
87.5°	4.9	11.4	5.9	3.7	3.9	3.7	3.9	4.1	4.5	4.7	4.7
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)