

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: P628800

Luminaire Tested: GWS-SA1A-735-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628800  
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-735-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

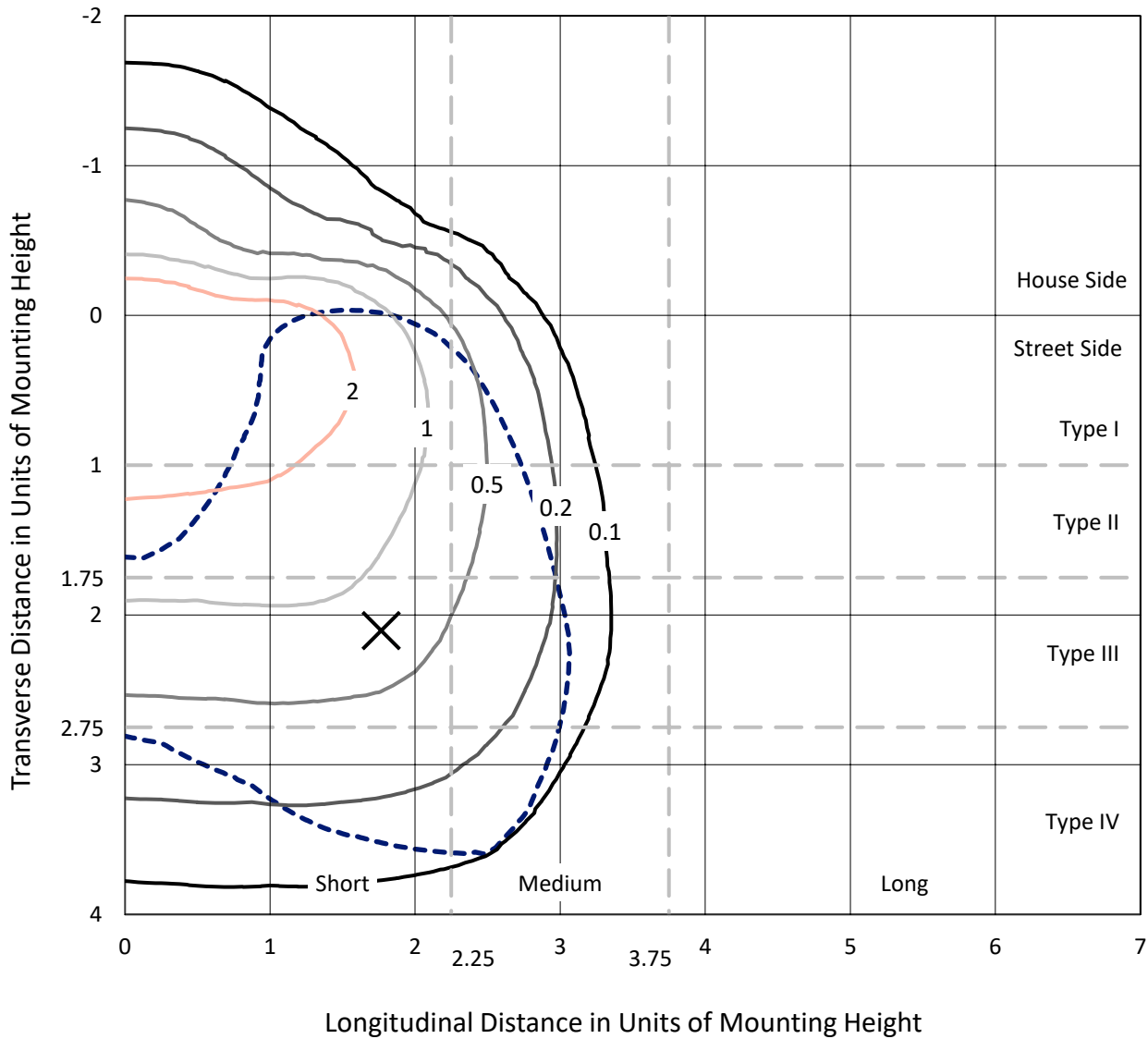
Lumens per Lamp: N/A  
Luminaire Lumens: 2693.7 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

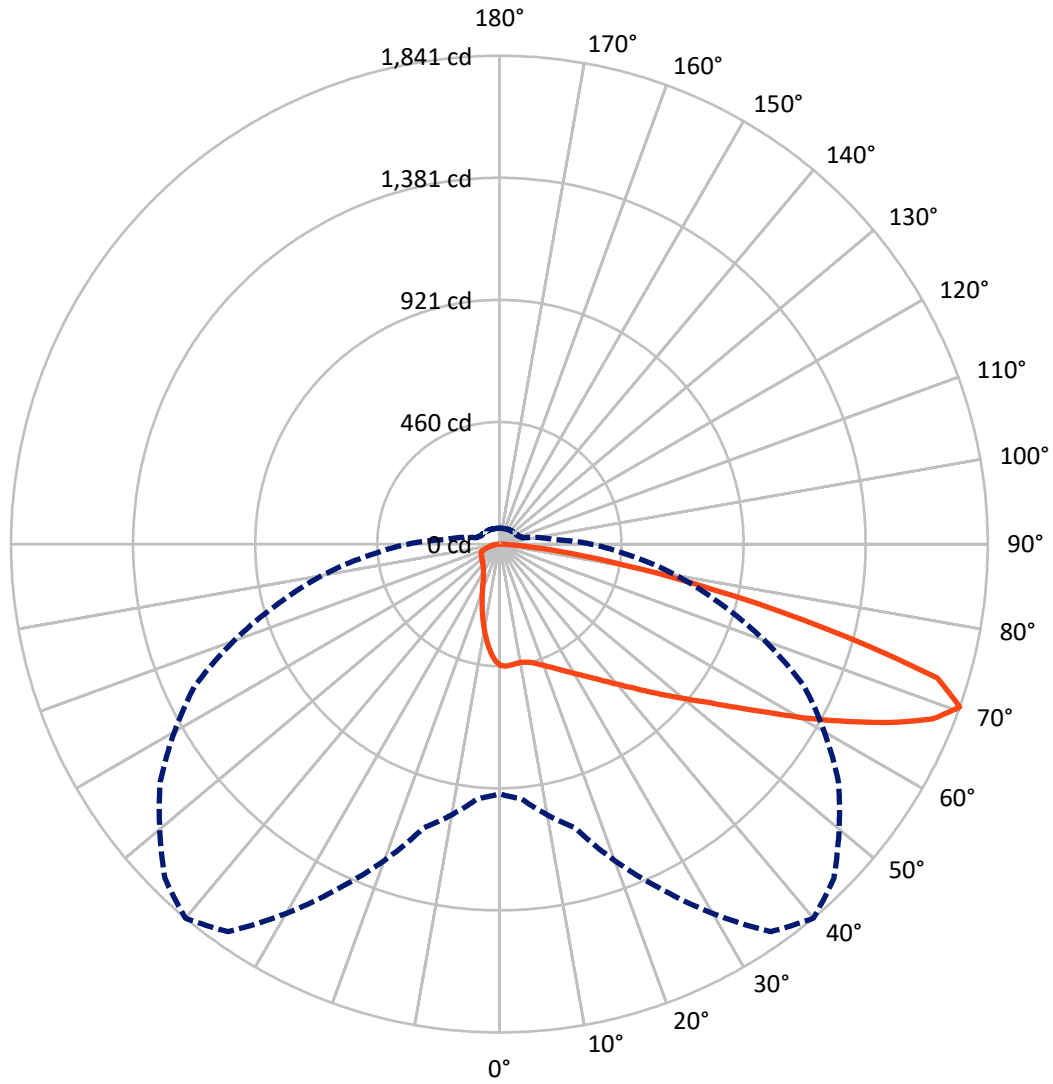
✕ Max cd  
 - - - 1/2 Max cd



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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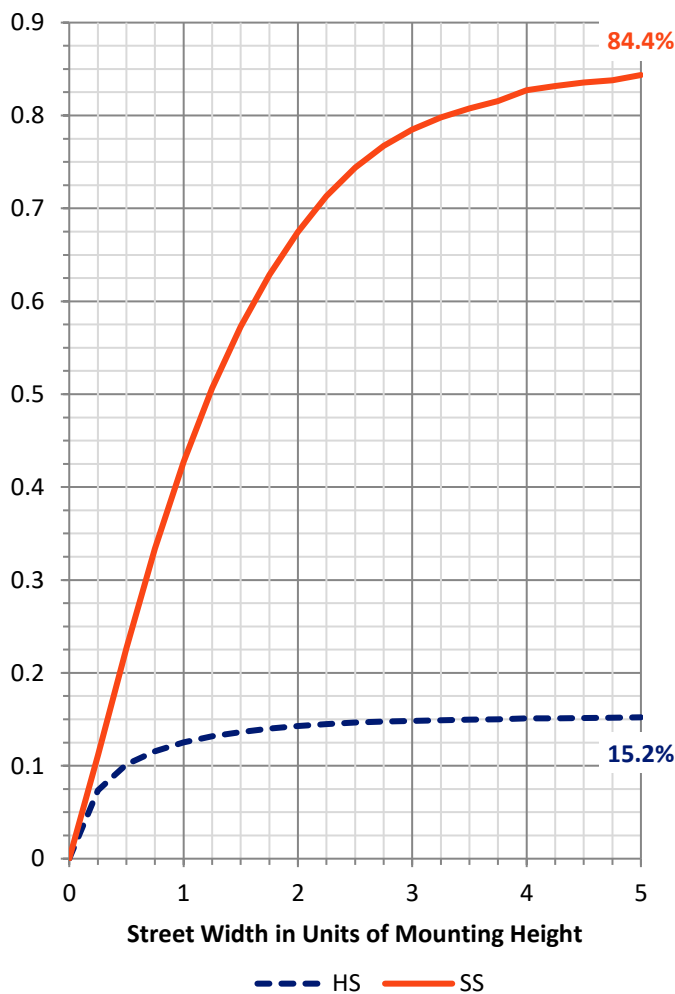
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	414.9	0.0	414.9
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	2278.8	0.0	2278.8
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	2693.7	0.0	2693.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.4	1.5
10°-20°	105.3	3.9
20°-30°	165.4	6.1
30°-40°	248.7	9.2
40°-50°	383.8	14.2
50°-60°	570.0	21.2
60°-70°	718.5	26.7
70°-80°	415.5	15.4
80°-90°	46.1	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°	2693.7	100.0
0°-180°	2693.7	100.0

**Coefficient of Utilization**



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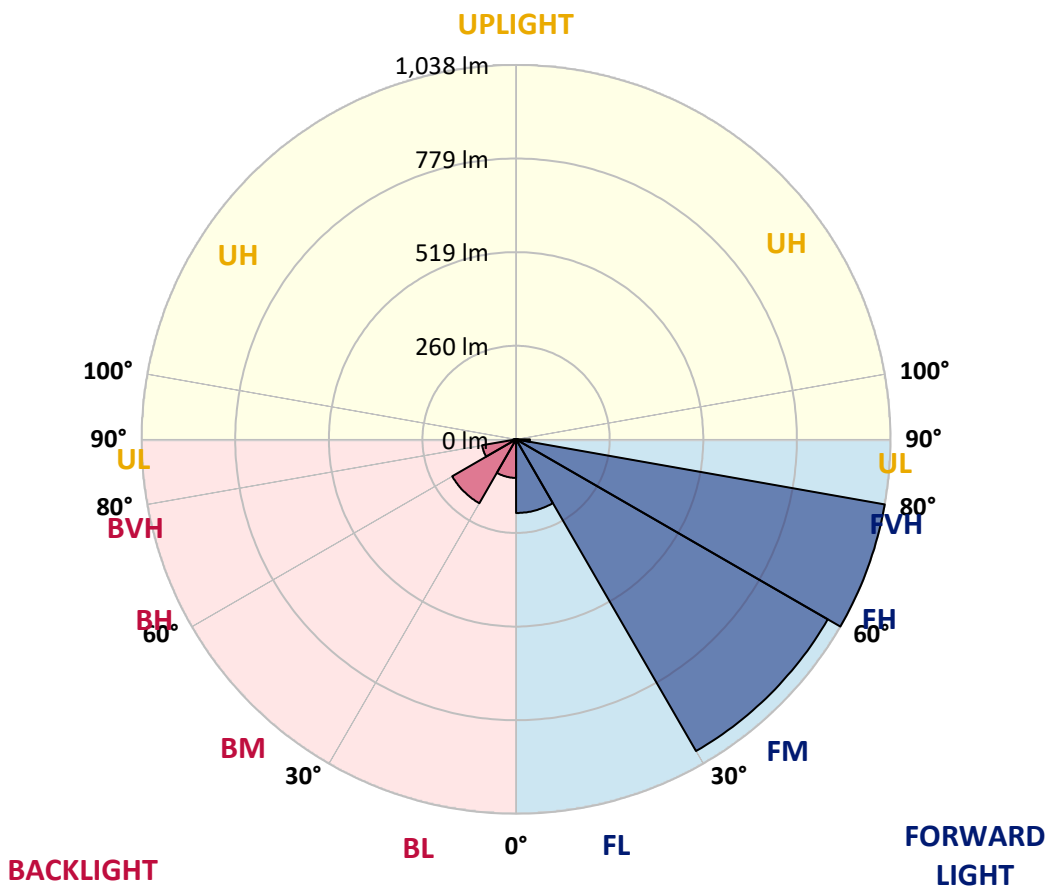
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	204.2	7.6			
FM (30°-60°)	998.0	37.0			
FH (60°-80°)	1038.2	38.5			G1/1800
FVH (80°-90°)	38.4	1.4			G1/100
BL (0°-30°)	106.9	4.0	B0/110		
BM (30°-60°)	204.5	7.6	B0/220		
BH (60°-80°)	95.8	3.6	B0/110		G0/110
BVH (80°-90°)	7.7	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°	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4
2.5°	460.2	461.0	461.6	462.4	462.0	460.8	461.8	461.8	459.6	457.2	455.0
5°	460.8	461.8	461.6	461.4	459.8	457.8	457.8	456.6	452.8	449.0	445.4
7.5°	459.6	459.4	459.2	458.6	456.8	454.6	454.2	451.8	446.8	441.5	436.3
10°	454.2	454.0	454.6	456.0	455.6	453.6	453.6	451.4	445.6	439.1	432.3
12.5°	449.8	449.8	452.2	456.0	457.4	456.6	456.8	455.2	448.6	440.9	432.9
15°	450.4	450.6	455.8	462.0	464.7	464.1	464.3	462.4	455.0	447.4	436.5
17.5°	454.4	455.4	464.5	473.1	476.5	475.7	474.3	471.3	462.8	454.2	440.9
20°	462.8	464.5	476.1	487.0	491.0	489.2	486.8	480.7	471.5	462.0	445.8
22.5°	479.5	480.5	493.4	504.1	507.3	505.1	500.2	491.6	480.9	471.1	451.6
25°	503.1	504.3	516.5	526.4	525.6	523.0	516.3	505.7	493.0	482.6	460.0
27.5°	531.0	533.0	545.1	552.9	547.7	543.9	536.4	523.6	509.3	499.8	472.9
30°	561.6	562.4	572.6	580.5	572.4	567.2	558.2	544.3	531.4	524.4	492.2
32.5°	591.1	591.9	600.8	605.2	596.8	592.9	585.1	570.4	561.4	557.6	521.0
35°	622.3	622.1	629.3	633.2	624.5	622.9	614.9	603.6	602.0	607.0	563.0
37.5°	653.5	651.6	655.5	660.5	655.7	657.3	652.1	648.2	654.5	667.5	618.9
40°	678.4	678.4	682.4	688.6	690.3	697.3	694.3	699.3	719.4	750.6	688.0
42.5°	700.5	700.7	709.2	718.8	730.5	741.3	743.7	756.8	798.4	847.3	774.9
45°	723.6	723.8	735.3	749.4	774.1	794.8	799.6	829.0	888.5	948.0	869.2
47.5°	750.4	748.2	764.0	787.6	822.8	852.5	865.0	906.6	981.8	1055.0	958.1
50°	780.5	775.9	793.6	834.2	877.6	918.5	939.4	987.0	1081.9	1153.7	1041.7
52.5°	814.5	811.9	830.4	879.9	946.2	993.3	1021.6	1084.1	1179.2	1252.0	1108.1
55°	856.7	850.5	877.2	940.2	1026.6	1086.6	1120.1	1180.2	1285.6	1341.3	1158.7
57.5°	903.0	896.1	931.9	1015.6	1131.2	1196.9	1239.0	1288.4	1385.7	1409.7	1188.5
60°	952.8	950.6	993.1	1104.0	1255.8	1332.3	1362.6	1407.4	1472.8	1449.3	1181.1
62.5°	998.5	997.7	1059.4	1200.0	1387.9	1472.0	1496.1	1508.0	1535.5	1446.7	1121.9
65°	1046.5	1053.4	1136.8	1311.1	1539.3	1621.8	1631.8	1601.7	1556.6	1378.1	1000.9
67.5°	1052.6	1065.8	1185.5	1415.3	1682.9	1760.7	1752.7	1637.3	1494.3	1187.3	784.6
70°	941.4	964.5	1107.9	1431.2	1784.0	1841.3	1783.2	1560.7	1268.1	860.2	493.4
72.5°	786.6	806.5	933.1	1220.5	1653.6	1726.5	1647.9	1321.0	896.1	493.4	251.3
75°	612.2	635.4	752.2	970.1	1238.0	1267.1	1227.7	921.3	492.6	203.5	114.2
77.5°	373.6	390.3	481.1	657.3	866.2	822.6	697.1	516.5	216.1	97.5	70.6
80°	165.3	175.5	237.1	353.1	500.4	473.1	373.0	220.6	118.2	61.9	49.3
82.5°	88.7	95.3	116.8	139.7	219.8	229.8	186.4	127.1	63.5	35.4	28.1
85°	39.0	42.8	53.1	50.7	72.2	71.0	71.6	87.3	30.4	16.3	18.3
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	2.2	11.7	3.0	4.8	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°	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4	457.4
2.5°	452.6	449.0	448.0	446.8	444.6	440.7	437.9	434.7	433.3	431.7	431.9
5°	441.3	436.9	432.7	427.3	420.4	412.8	407.6	401.5	398.3	395.3	396.1
7.5°	431.7	424.8	416.2	404.7	392.5	378.8	367.7	359.1	353.3	349.2	351.3
10°	425.7	417.6	402.5	383.8	363.1	342.2	326.3	311.4	302.2	295.0	294.6
12.5°	424.4	414.0	392.1	364.9	335.0	307.0	283.7	263.6	251.3	242.3	245.7
15°	425.7	412.4	383.0	347.4	309.6	271.8	242.9	219.8	205.1	196.8	196.2
17.5°	427.1	410.8	372.8	328.5	283.1	239.9	206.3	181.8	166.7	158.4	158.6
20°	428.3	408.4	360.7	307.8	256.2	210.1	175.3	152.0	138.5	132.5	133.5
22.5°	430.3	405.9	347.8	285.7	228.6	181.4	150.8	131.9	123.9	119.8	120.0
25°	434.1	404.5	334.6	261.6	201.5	158.4	133.9	121.2	116.2	113.8	113.6
27.5°	441.9	405.7	320.7	238.3	176.9	140.9	123.1	114.8	111.4	109.8	109.6
30°	455.0	410.6	308.6	214.5	155.8	127.3	115.6	110.6	108.6	107.2	107.0
32.5°	474.9	419.6	295.6	192.4	138.7	117.2	109.8	107.2	105.8	105.0	105.0
35°	505.1	436.1	282.7	173.1	125.5	109.4	105.2	104.2	102.9	102.5	102.9
37.5°	548.5	462.4	271.0	156.2	116.0	103.3	100.1	100.5	99.5	100.1	100.7
40°	603.6	497.6	261.2	142.4	109.0	98.9	95.7	97.1	96.5	97.1	98.1
42.5°	673.4	541.3	253.7	131.5	104.0	95.3	92.3	93.7	93.3	94.1	95.1
45°	751.2	598.8	250.3	123.9	100.3	92.7	89.5	90.5	90.1	90.7	91.7
47.5°	825.8	651.0	253.3	119.4	97.3	90.5	87.1	87.5	87.3	87.1	87.7
50°	890.1	692.7	262.0	118.0	95.3	88.3	85.1	85.3	84.6	83.4	83.8
52.5°	942.6	726.0	267.2	118.0	94.3	85.9	82.8	83.0	81.8	80.2	80.4
55°	977.2	739.5	263.0	117.8	93.9	83.8	80.6	80.8	79.6	77.6	77.8
57.5°	987.0	726.4	245.3	115.6	93.5	82.2	78.4	78.8	78.0	75.8	75.8
60°	959.5	678.6	212.9	110.6	92.5	81.2	76.8	77.4	77.0	74.8	74.8
62.5°	887.3	593.5	174.3	102.9	89.7	80.0	75.4	76.6	77.6	76.4	76.2
65°	752.2	475.5	141.8	94.5	86.1	78.0	73.4	76.4	78.6	80.2	80.2
67.5°	564.4	340.4	115.6	85.7	80.6	74.0	70.8	73.6	75.2	76.2	76.8
70°	344.0	200.3	91.1	75.4	72.8	68.0	65.5	62.7	60.5	60.1	60.3
72.5°	168.3	114.6	74.0	64.1	62.1	57.7	52.3	51.1	50.1	49.5	49.3
75°	92.7	79.8	61.1	53.3	49.7	44.2	43.0	41.0	40.6	39.8	40.0
77.5°	65.5	62.9	50.5	43.2	37.8	35.0	35.6	34.2	34.2	33.6	33.4
80°	49.3	49.5	38.8	31.6	27.9	26.9	27.5	27.5	27.1	26.9	26.7
82.5°	31.2	35.2	26.1	20.3	19.9	20.1	19.9	19.7	20.1	19.5	19.3
85°	21.5	25.3	15.9	12.1	12.1	11.9	12.3	12.1	12.5	11.9	11.9
87.5°	4.8	11.3	5.8	3.6	3.8	3.6	3.8	4.0	4.4	4.6	4.6
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)