

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: P628819

Luminaire Tested: GWS-SA1A-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-735-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

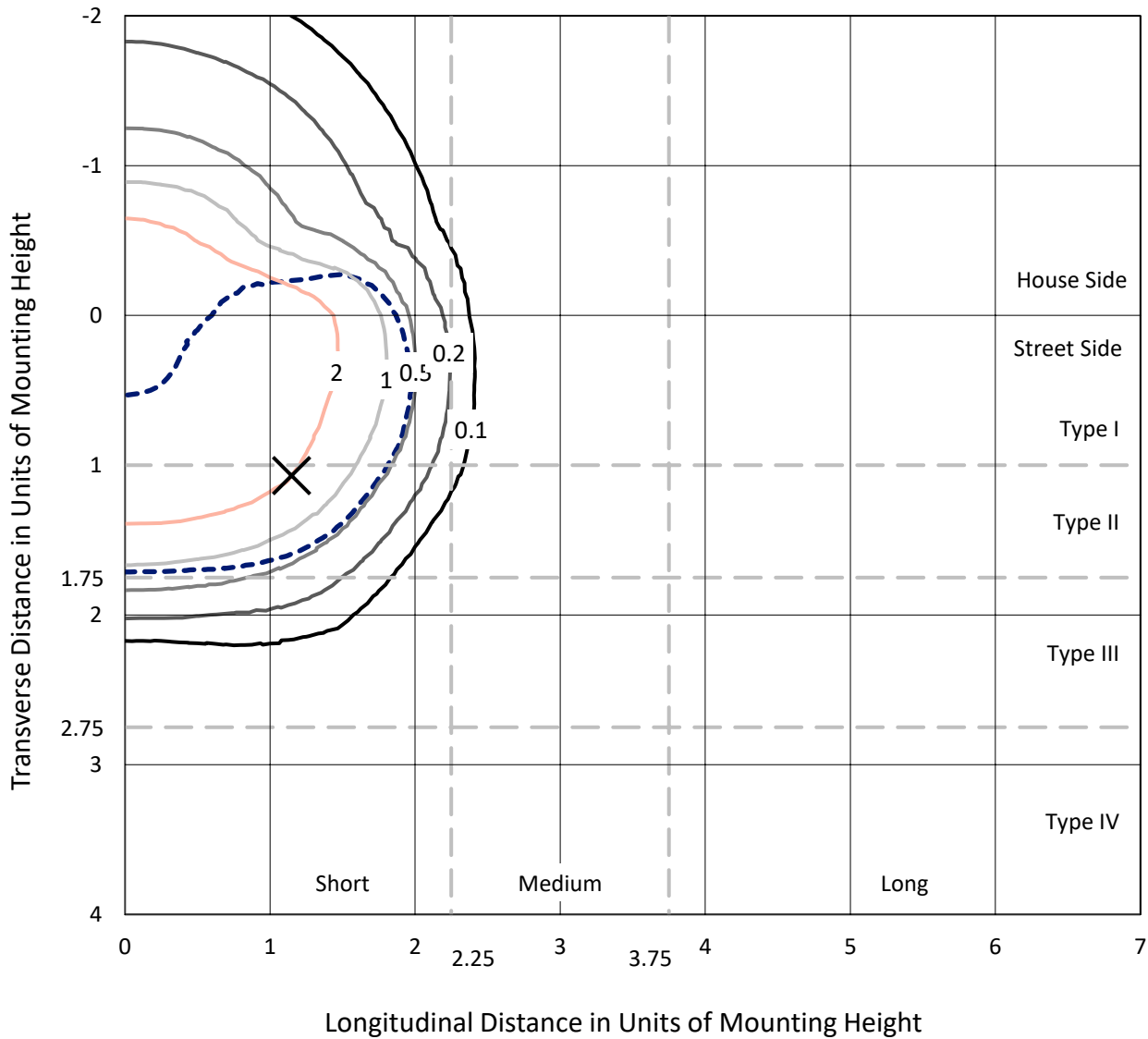
Lumens per Lamp: N/A  
Luminaire Lumens: 2393.9 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

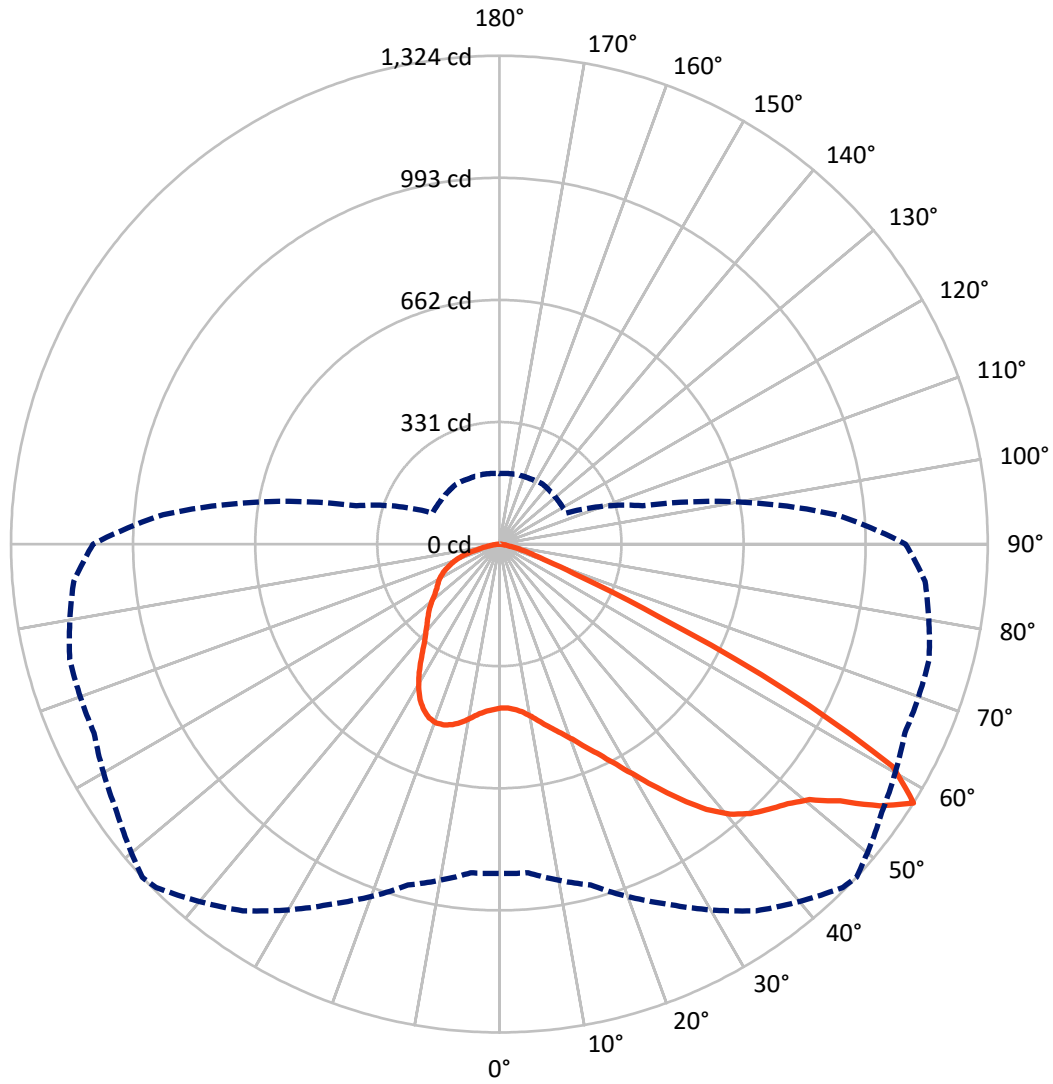
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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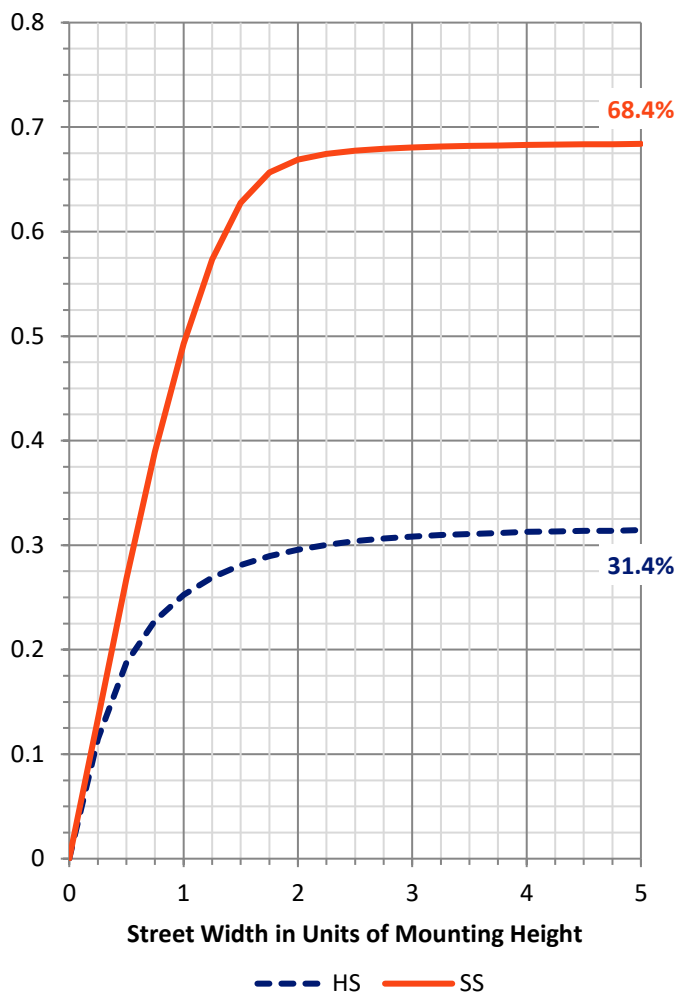
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	757.7	0.0	757.7
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	1636.2	0.0	1636.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	2393.9	0.0	2393.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.8	1.8
10°-20°	144.0	6.0
20°-30°	259.3	10.8
30°-40°	391.7	16.4
40°-50°	527.4	22.0
50°-60°	633.8	26.5
60°-70°	308.7	12.9
70°-80°	76.1	3.2
80°-90°	9.1	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°	2393.9	100.0
0°-180°	2393.9	100.0

**Coefficient of Utilization**



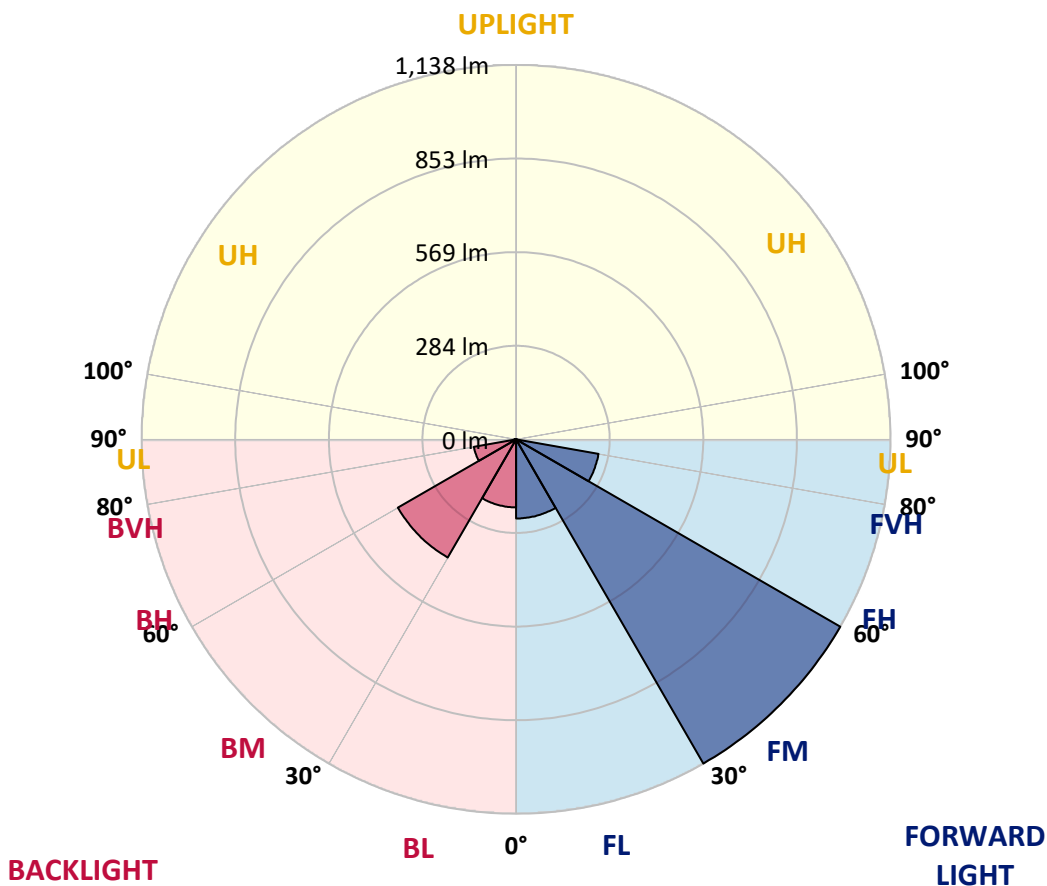
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.5	10.0			
FM (30°-60°)	1137.9	47.5			
FH (60°-80°)	254.4	10.6			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	206.7	8.6	B1/500		
BM (30°-60°)	415.0	17.3	B1/1000		
BH (60°-80°)	130.3	5.4	B1/500		G1/500
BVH (80°-90°)	5.7	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0
2.5°	443.1	442.9	442.9	444.2	444.2	444.6	445.2	445.8	446.0	445.0	442.7
5°	448.0	448.0	448.0	449.0	449.0	449.4	450.2	450.4	450.2	448.6	446.4
7.5°	455.6	455.6	455.8	457.0	458.0	458.6	460.0	459.8	459.2	456.6	453.8
10°	468.1	468.7	469.3	470.7	472.7	474.1	475.1	475.1	474.3	470.3	466.7
12.5°	485.8	486.6	487.2	488.4	490.0	492.4	494.6	494.6	493.6	488.6	483.2
15°	506.5	507.3	507.1	507.5	510.5	513.9	515.7	516.9	517.3	510.3	501.9
17.5°	530.2	531.0	530.2	529.0	529.4	534.8	538.1	542.5	545.1	535.6	522.2
20°	551.7	550.9	550.9	551.7	552.9	559.6	564.4	571.6	574.8	563.4	542.5
22.5°	574.4	576.3	575.4	575.4	580.3	591.3	597.2	606.6	610.0	595.2	567.0
25°	603.8	605.4	605.0	605.4	611.0	626.7	632.6	650.0	653.5	632.1	594.1
27.5°	636.0	638.6	639.8	639.4	648.4	668.9	676.2	700.5	706.7	673.6	623.1
30°	677.8	680.6	681.6	681.2	691.9	719.8	728.1	755.8	764.7	722.6	659.9
32.5°	726.2	729.1	732.1	733.3	747.0	775.5	787.4	816.1	828.8	779.3	704.3
35°	774.3	776.7	782.5	792.0	810.7	839.8	850.3	878.7	890.9	838.2	758.0
37.5°	827.4	829.0	834.0	847.1	874.0	901.8	912.2	939.4	940.8	895.1	818.7
40°	885.5	885.5	884.5	897.4	925.5	953.5	962.5	978.2	969.9	939.0	877.9
42.5°	934.8	933.9	934.8	946.8	967.7	990.4	998.3	995.3	984.8	972.6	931.3
45°	979.2	979.8	987.0	996.3	1007.1	1020.6	1025.2	1008.1	998.7	999.5	974.2
47.5°	1009.3	1010.0	1026.8	1042.3	1049.0	1053.2	1051.2	1027.4	1022.6	1031.7	1007.1
50°	1013.4	1016.6	1045.7	1077.5	1094.0	1094.6	1089.0	1060.0	1058.6	1068.9	1024.8
52.5°	1014.2	1017.4	1053.8	1111.1	1153.9	1163.0	1156.5	1126.4	1111.7	1101.4	1046.5
55°	1011.2	1014.8	1055.0	1133.6	1215.6	1251.8	1252.4	1209.8	1163.0	1156.1	1108.5
57.5°	892.7	894.1	956.5	1076.3	1213.2	1315.8	1323.6	1265.7	1212.2	1205.8	1158.1
60°	621.9	627.5	695.3	853.5	1019.2	1200.0	1225.3	1208.4	1172.6	1125.8	993.7
62.5°	311.5	316.3	384.2	533.8	702.9	845.7	872.8	890.7	899.2	848.9	676.6
65°	134.1	137.7	180.0	278.9	397.9	466.9	476.3	497.8	550.5	491.2	364.5
67.5°	89.7	92.1	113.6	170.1	234.4	238.9	237.5	242.1	253.5	209.3	164.7
70°	68.8	70.8	85.3	124.7	168.5	144.2	136.5	123.9	134.5	137.1	133.5
72.5°	49.9	51.5	62.3	85.1	105.6	92.1	90.9	97.3	111.8	115.8	113.6
75°	32.2	33.0	39.6	46.6	54.5	59.1	61.5	73.2	87.9	90.9	88.3
77.5°	21.5	22.1	25.9	30.0	31.0	31.2	32.0	37.2	47.3	52.9	52.3
80°	11.3	11.3	12.7	12.7	14.5	17.3	18.1	21.5	26.1	29.0	29.2
82.5°	4.4	4.6	5.4	6.0	7.2	8.8	9.5	11.3	13.7	15.7	17.5
85°	1.8	2.0	2.2	2.6	3.2	4.0	4.2	4.8	6.4	8.0	9.0
87.5°	0.0	0.0	0.2	0.2	0.4	0.6	0.6	0.8	1.0	1.8	2.4
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°	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0	444.0
2.5°	445.4	442.7	445.4	446.2	448.4	449.2	447.8	447.6	447.6	445.6	445.0
5°	448.4	446.0	448.6	449.8	453.0	455.0	455.4	457.0	458.0	457.2	457.0
7.5°	455.8	452.8	455.6	457.4	461.6	464.9	466.3	469.9	472.5	472.1	471.9
10°	468.9	464.9	468.1	471.1	475.7	479.5	479.7	481.8	484.4	483.6	483.2
12.5°	484.0	480.1	483.8	486.8	492.2	493.8	491.2	490.4	490.8	489.8	489.0
15°	502.5	497.0	500.3	503.7	506.7	504.9	499.2	497.0	496.8	495.4	494.6
17.5°	521.0	514.1	516.5	518.3	516.9	511.3	504.3	500.5	498.6	495.8	495.0
20°	539.3	530.6	530.2	528.8	522.4	512.1	502.7	495.0	490.4	486.6	485.2
22.5°	560.2	548.1	542.1	535.6	521.6	504.9	490.6	479.7	472.3	467.5	465.9
25°	582.7	565.6	553.1	540.3	513.5	489.4	469.5	454.6	445.8	440.5	438.7
27.5°	605.0	581.5	562.8	540.9	497.4	467.1	440.3	420.2	411.4	407.2	405.7
30°	635.2	602.6	574.2	533.0	476.3	436.1	402.7	382.4	376.6	373.6	372.4
32.5°	669.9	629.3	589.5	516.5	449.4	399.9	364.7	350.7	346.6	340.8	340.6
35°	715.8	667.5	604.0	492.2	415.4	361.1	335.6	325.5	318.3	309.0	308.2
37.5°	769.3	715.2	611.8	461.2	375.8	329.1	313.9	302.6	290.9	278.7	277.1
40°	824.6	770.9	612.4	424.6	337.0	308.0	295.2	280.5	266.0	252.3	250.5
42.5°	882.7	822.8	601.8	382.4	305.2	289.7	276.7	258.2	241.9	232.6	231.6
45°	934.6	864.6	577.7	338.0	281.7	274.5	257.8	237.9	229.2	222.6	221.2
47.5°	975.4	892.3	545.1	298.2	262.6	258.8	237.1	226.8	220.2	214.1	212.7
50°	995.5	898.6	502.7	265.8	244.9	240.3	225.4	217.6	213.1	208.3	207.1
52.5°	1020.4	905.6	466.1	238.7	227.6	221.4	215.7	209.5	206.3	203.3	202.3
55°	1077.7	932.1	446.8	216.9	211.1	208.3	207.5	202.3	201.3	199.3	197.4
57.5°	1101.0	915.0	401.1	199.3	198.0	198.5	200.5	195.6	194.6	192.2	191.0
60°	885.5	691.7	271.6	184.0	187.2	189.8	191.8	187.0	185.6	185.2	183.6
62.5°	567.4	425.5	189.6	169.7	174.5	177.7	178.9	174.3	173.3	176.5	176.7
65°	295.4	231.8	153.8	154.4	158.4	163.3	165.7	164.1	163.7	167.1	167.3
67.5°	150.8	141.8	134.1	136.3	139.5	145.8	151.4	158.4	160.9	161.3	161.5
70°	128.5	124.5	120.6	122.0	125.5	128.9	134.3	137.7	133.7	132.7	132.3
72.5°	109.4	106.4	104.6	106.2	108.0	107.4	105.8	107.4	108.0	108.2	108.4
75°	85.1	82.8	81.4	81.6	81.6	79.4	76.4	74.6	72.6	71.0	71.0
77.5°	52.1	52.5	53.9	53.7	53.5	52.7	49.7	48.1	43.2	41.8	41.8
80°	29.8	30.4	31.8	32.2	32.2	31.2	28.1	26.3	24.1	23.1	22.9
82.5°	18.1	18.9	19.7	20.1	20.3	19.1	16.5	15.1	13.9	12.9	12.9
85°	9.5	9.9	10.7	10.9	10.3	9.0	7.6	7.0	5.8	5.6	5.6
87.5°	2.6	2.8	3.2	2.6	2.4	1.8	1.0	0.8	0.4	0.2	0.2
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)