

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: P628924

Luminaire Tested: GWS-SA1A-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-750-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

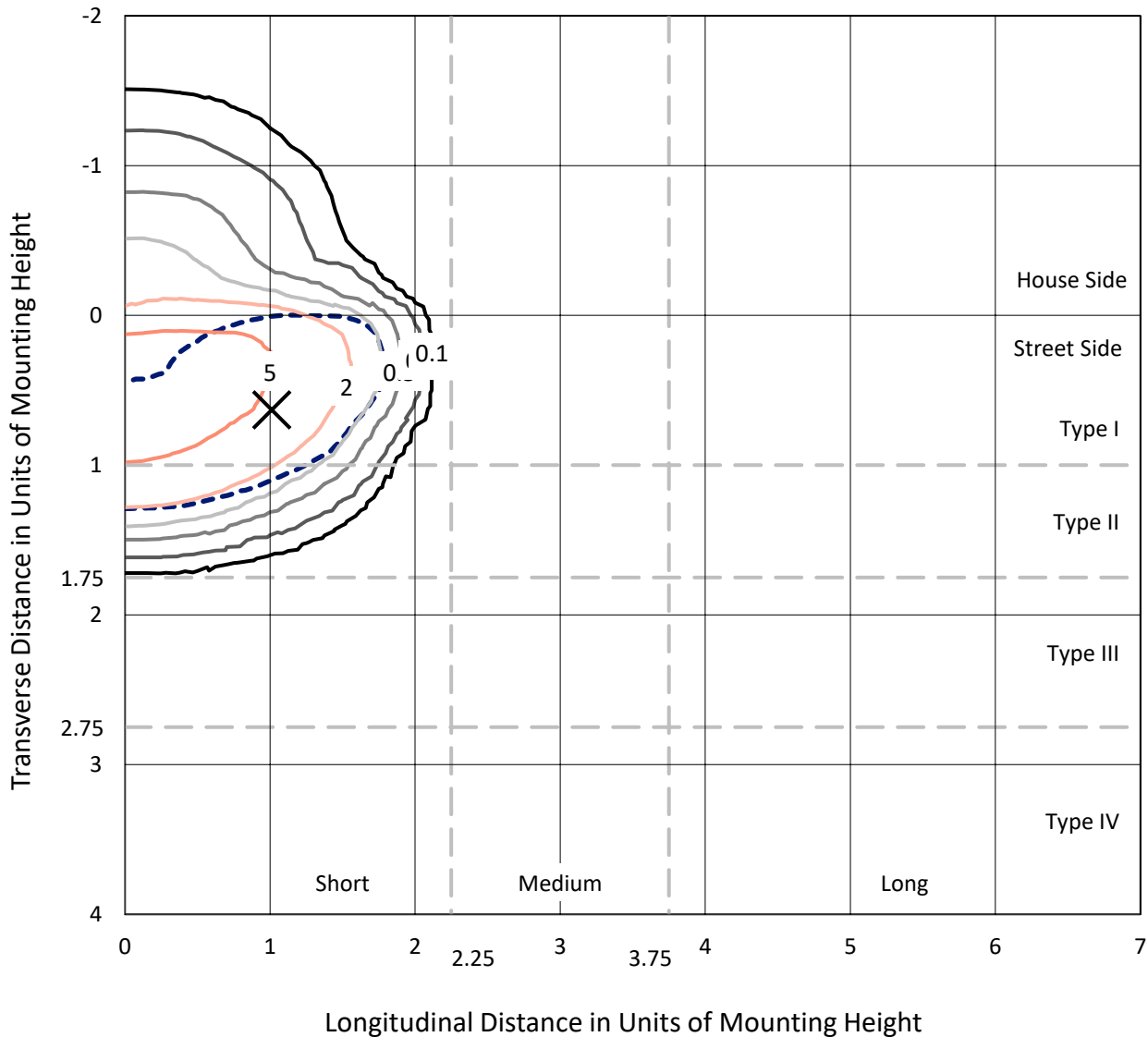
Lumens per Lamp: N/A  
Luminaire Lumens: 1950 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

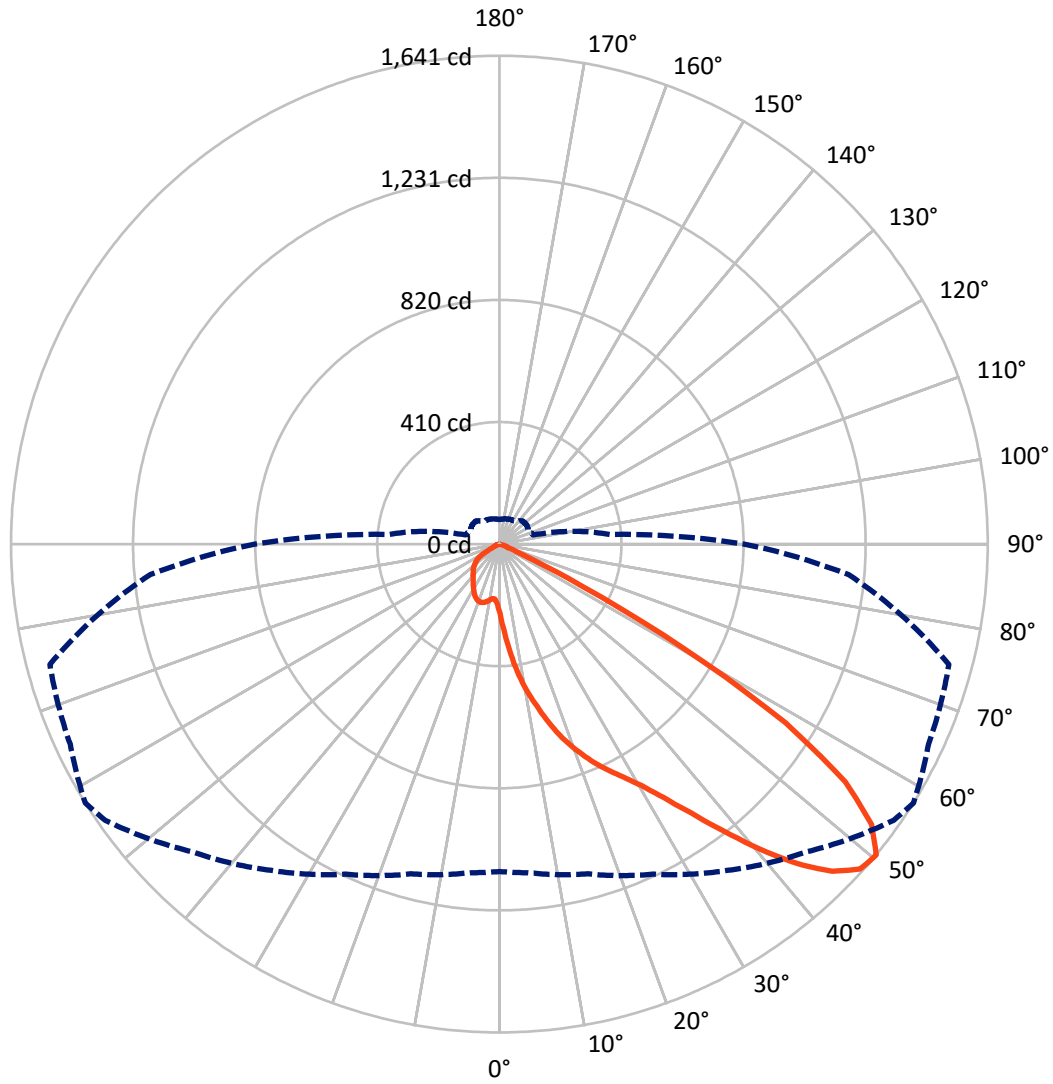
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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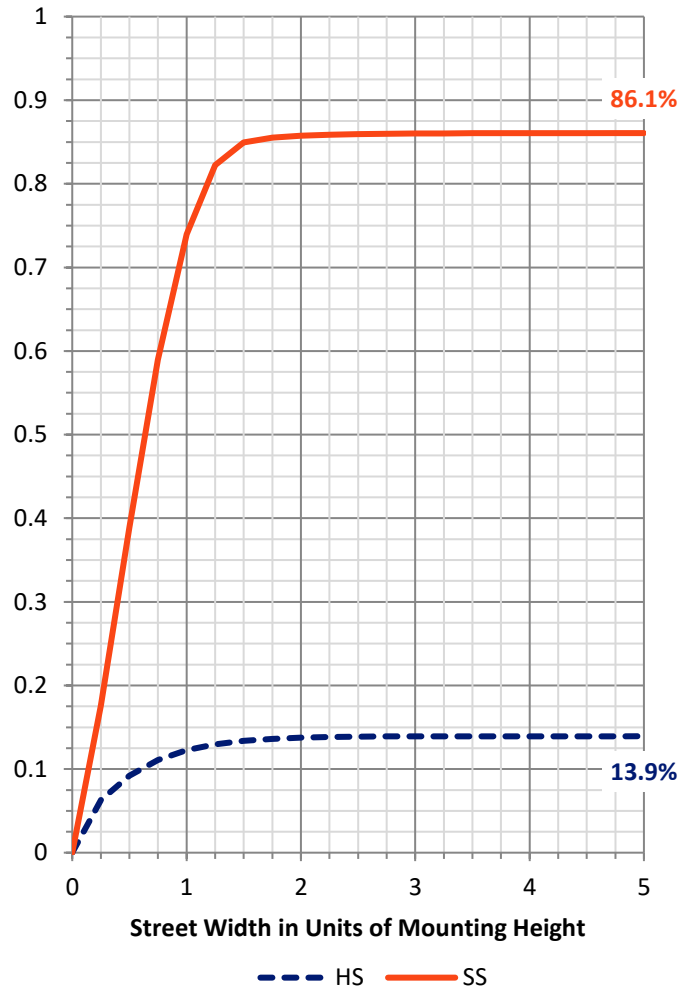
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	273.1	0.0	273.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	1676.9	0.0	1676.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	1950.0	0.0	1950.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.9	1.5
10°-20°	114.2	5.9
20°-30°	231.2	11.9
30°-40°	408.9	21.0
40°-50°	596.1	30.6
50°-60°	477.8	24.5
60°-70°	86.1	4.4
70°-80°	6.8	0.3
80°-90°	0.0	0.0
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°	1950.0	100.0
0°-180°	1950.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P628924

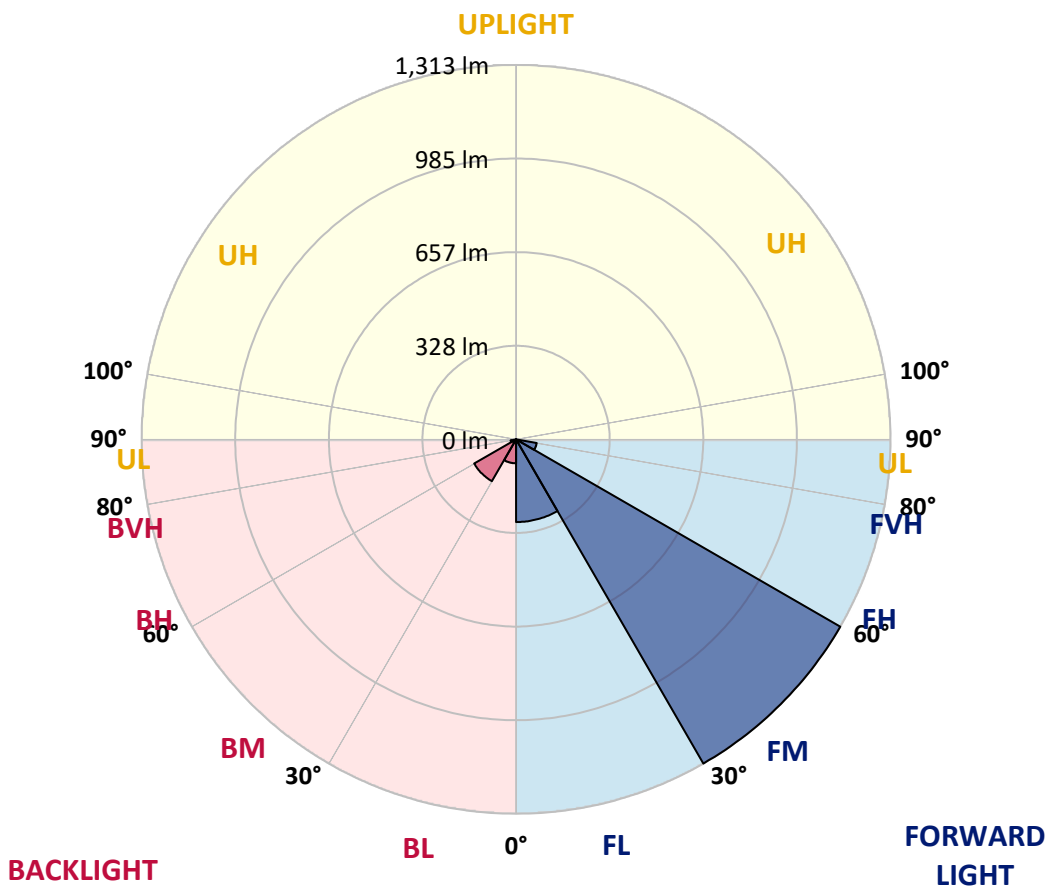
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	290.2	14.9			
FM (30°-60°)	1313.3	67.3			
FH (60°-80°)	73.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	84.1	4.3	B0/110		
BM (30°-60°)	169.6	8.7	B0/220		
BH (60°-80°)	19.4	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9
2.5°	344.7	339.3	336.1	333.6	322.6	305.1	293.6	287.6	277.5	260.7	246.1
5°	449.8	445.8	438.5	433.5	419.3	394.5	368.9	358.7	335.9	297.8	263.6
7.5°	519.4	516.5	513.8	507.1	493.8	471.3	442.9	432.3	397.2	343.0	286.9
10°	573.0	570.7	567.6	567.4	557.0	536.7	509.0	498.0	460.0	392.2	314.5
12.5°	620.2	618.3	617.7	623.5	616.8	601.8	571.8	558.0	517.8	442.5	344.9
15°	652.5	652.1	654.8	666.2	670.0	663.1	637.9	623.1	576.8	493.0	378.5
17.5°	667.3	668.5	673.7	693.6	710.2	716.1	696.7	684.2	635.4	544.0	414.3
20°	692.5	692.1	695.2	714.0	734.4	755.3	749.4	738.8	694.6	598.1	454.2
22.5°	763.6	757.6	750.9	753.8	761.1	785.5	796.4	790.9	755.7	653.5	495.3
25°	872.9	866.6	845.2	824.3	810.5	821.6	836.4	839.1	816.4	710.4	538.2
27.5°	988.8	983.2	959.0	927.7	888.3	869.1	880.2	885.6	876.0	778.2	583.9
30°	1097.5	1090.0	1063.5	1024.7	979.0	949.6	937.1	940.9	946.5	858.5	637.5
32.5°	1191.7	1186.1	1154.4	1113.5	1069.5	1038.9	1009.7	1015.9	1029.7	956.7	706.1
35°	1271.6	1268.7	1235.1	1194.4	1147.9	1132.3	1107.3	1108.5	1122.3	1075.4	789.7
37.5°	1341.0	1336.0	1305.6	1267.8	1230.9	1228.4	1221.5	1222.2	1229.3	1213.6	885.8
40°	1384.8	1380.2	1358.6	1335.2	1308.9	1309.3	1345.0	1347.7	1339.6	1349.4	987.4
42.5°	1401.3	1398.0	1386.3	1386.5	1383.8	1396.1	1463.0	1468.0	1438.8	1455.9	1074.1
45°	1372.7	1371.3	1372.1	1402.1	1434.7	1472.6	1559.6	1568.3	1527.0	1526.6	1141.9
47.5°	1280.6	1277.6	1302.0	1353.1	1428.4	1502.2	1618.0	1631.5	1588.8	1567.1	1184.4
50°	1100.0	1108.3	1146.9	1223.6	1338.1	1461.6	1617.3	1640.9	1591.1	1563.5	1177.3
52.5°	796.8	795.1	879.6	985.1	1124.4	1331.4	1531.4	1565.8	1535.4	1528.7	1161.5
55°	433.5	448.7	505.7	645.4	819.3	1085.2	1335.2	1410.3	1445.5	1516.0	1190.1
57.5°	159.3	166.0	201.6	300.5	433.7	674.8	1019.9	1133.1	1242.0	1480.5	1185.3
60°	64.2	65.5	79.7	110.5	182.3	343.4	611.8	712.3	814.9	1133.3	909.6
62.5°	46.7	48.4	54.0	64.6	92.2	150.1	263.8	306.7	335.3	561.4	448.1
65°	37.7	39.0	43.6	48.4	60.9	80.7	85.1	82.0	81.5	145.1	102.8
67.5°	31.3	32.5	35.9	39.2	43.8	40.2	29.2	30.7	25.0	24.8	20.2
70°	22.9	24.4	27.7	31.3	26.3	10.8	16.9	25.0	19.0	15.8	15.4
72.5°	17.3	18.4	21.5	20.4	7.7	4.2	11.3	18.1	14.6	11.7	11.5
75°	12.9	13.6	10.8	3.3	0.8	1.0	4.2	7.5	8.1	6.7	6.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.8	1.0	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9	232.9
2.5°	237.7	229.0	216.5	206.0	198.1	190.4	184.5	178.7	178.5	175.6	175.0
5°	247.7	231.9	208.9	192.5	182.5	176.4	172.2	170.2	169.1	168.1	167.7
7.5°	262.1	239.4	207.7	190.2	181.8	177.9	175.0	173.7	173.1	172.2	172.0
10°	279.8	250.2	212.3	194.6	187.3	183.5	180.4	178.5	177.5	176.0	175.6
12.5°	301.1	263.6	219.6	201.9	194.1	189.1	185.0	182.3	180.8	178.9	178.5
15°	324.1	278.0	227.7	208.5	199.4	192.9	187.7	183.5	180.8	178.5	177.9
17.5°	347.8	292.6	235.0	213.1	201.9	194.1	186.6	181.0	177.7	174.7	173.9
20°	374.5	307.6	239.8	213.9	201.0	190.8	182.0	175.0	171.6	167.7	166.8
22.5°	402.5	321.5	241.9	212.1	196.4	184.5	175.2	167.9	163.1	158.9	157.6
25°	429.6	334.1	240.8	206.9	189.6	175.8	166.2	158.7	153.5	149.3	148.3
27.5°	458.3	344.5	237.1	199.1	180.2	166.2	157.0	150.6	145.8	141.2	140.1
30°	490.7	354.1	231.0	189.8	169.1	156.4	149.3	144.9	139.7	134.9	133.5
32.5°	529.7	362.6	222.3	178.5	159.3	147.8	143.9	140.5	134.5	129.5	128.5
35°	574.3	369.7	211.2	166.8	149.7	142.4	141.6	137.2	129.3	123.4	122.2
37.5°	626.0	376.6	198.1	155.4	142.6	139.9	140.1	132.6	123.0	115.9	115.1
40°	681.7	383.5	183.5	145.3	136.2	138.5	136.6	126.0	110.3	103.4	102.6
42.5°	739.6	391.0	168.7	136.0	130.7	132.8	130.1	112.6	101.3	97.8	97.4
45°	792.0	400.0	152.6	126.6	125.3	124.7	120.1	102.0	97.2	94.7	94.5
47.5°	829.7	398.5	135.5	117.6	119.5	117.4	103.4	97.0	93.0	89.7	88.8
50°	822.8	373.1	117.8	107.6	112.0	110.1	93.0	91.1	87.6	84.0	82.8
52.5°	805.3	338.4	102.4	97.0	103.8	99.5	85.9	84.0	80.9	76.3	74.9
55°	814.7	305.9	90.3	88.4	95.5	82.4	78.0	75.1	71.7	66.7	66.1
57.5°	784.5	249.6	72.6	73.8	84.5	70.3	68.4	63.8	58.2	54.8	54.4
60°	543.0	134.1	45.5	46.9	61.1	59.0	61.3	57.1	50.3	47.1	46.5
62.5°	249.4	53.8	24.8	23.8	32.1	40.0	52.5	52.1	43.6	38.6	38.2
65°	60.5	24.6	17.7	16.7	18.1	24.0	34.2	41.1	35.2	29.4	28.8
67.5°	19.6	20.0	16.3	15.2	16.1	17.9	20.4	22.7	22.5	20.6	20.2
70°	15.6	18.1	15.0	13.8	13.8	14.4	13.8	11.1	9.6	10.4	10.8
72.5°	11.7	13.8	11.9	10.6	10.2	10.0	8.5	6.3	4.4	4.0	3.8
75°	6.9	7.7	7.3	6.3	5.8	5.2	4.2	2.7	1.5	1.0	0.6
77.5°	1.3	1.5	1.7	1.3	1.0	0.8	0.6	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)