

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: P628810

Luminaire Tested: GWS-SA1A-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-735-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

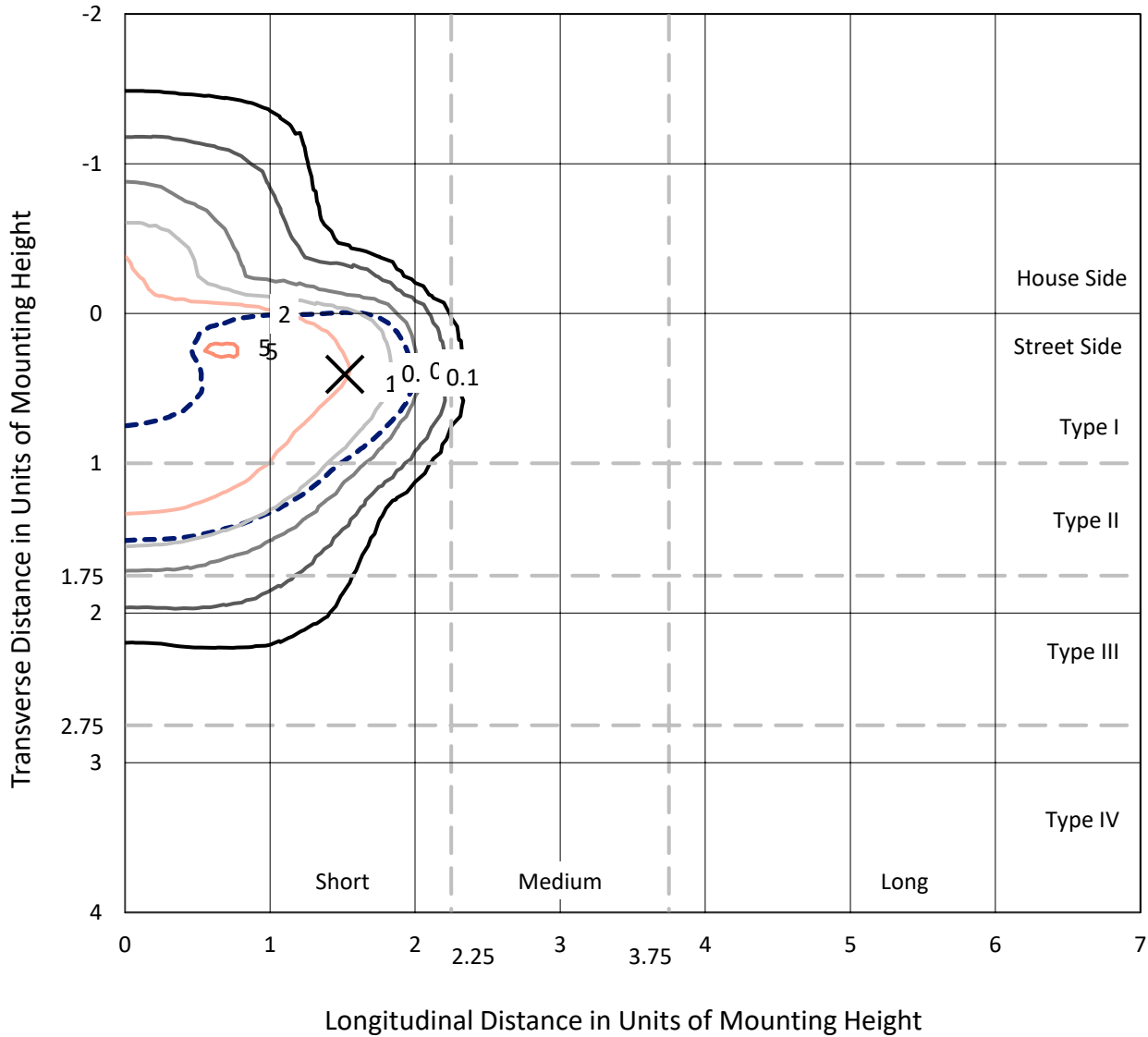
Lumens per Lamp: N/A  
Luminaire Lumens: 1666 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

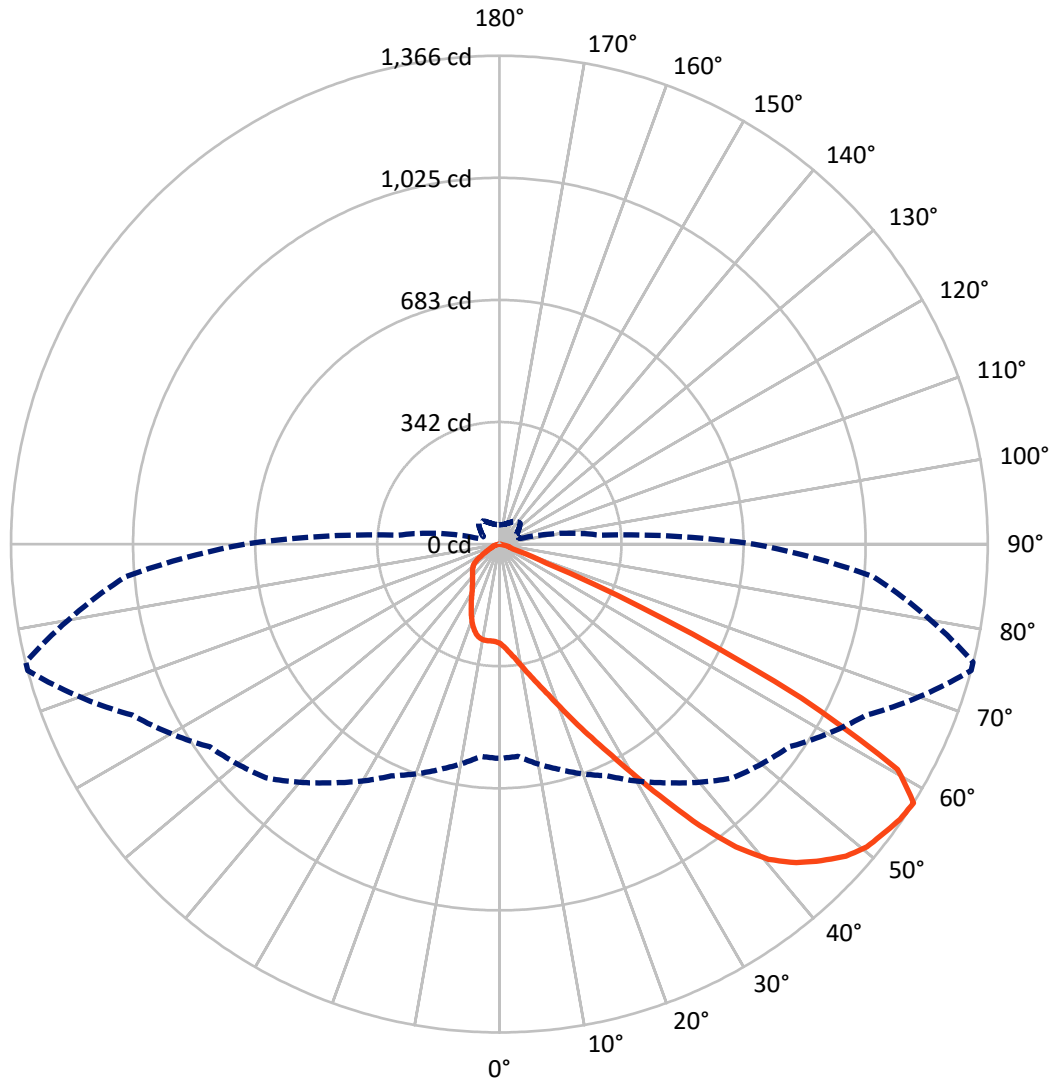
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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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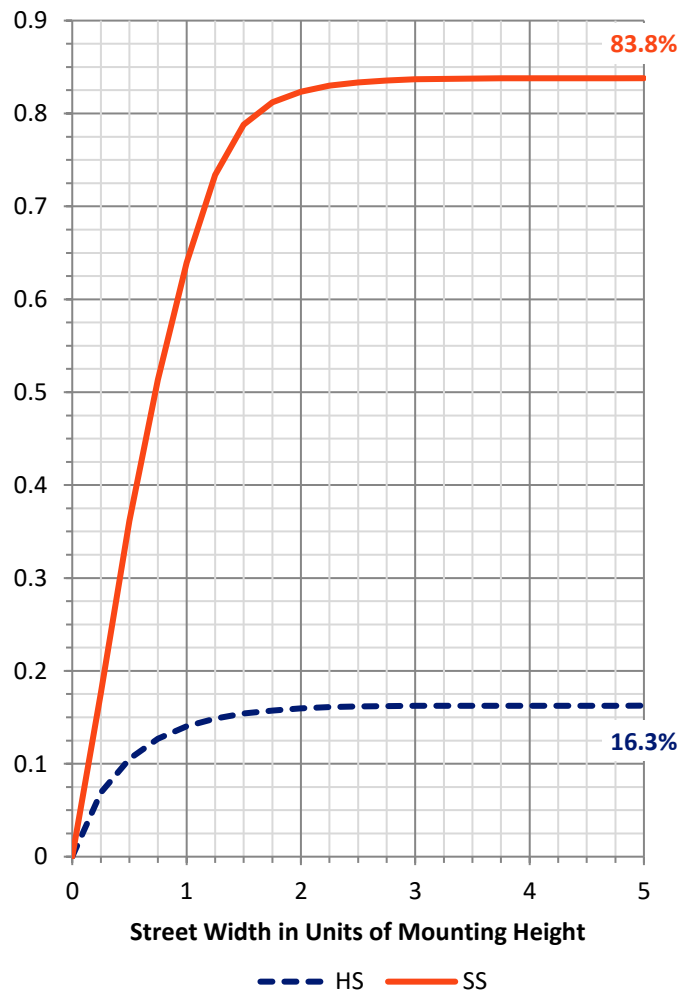
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	272.1	0.0	272.1
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	1393.9	0.0	1393.9
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	1666.0	0.0	1666.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.3	1.7
10°-20°	91.9	5.5
20°-30°	168.2	10.1
30°-40°	279.1	16.8
40°-50°	426.2	25.6
50°-60°	478.9	28.7
60°-70°	176.6	10.6
70°-80°	16.9	1.0
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°	1666.0	100.0
0°-180°	1666.0	100.0

**Coefficient of Utilization**



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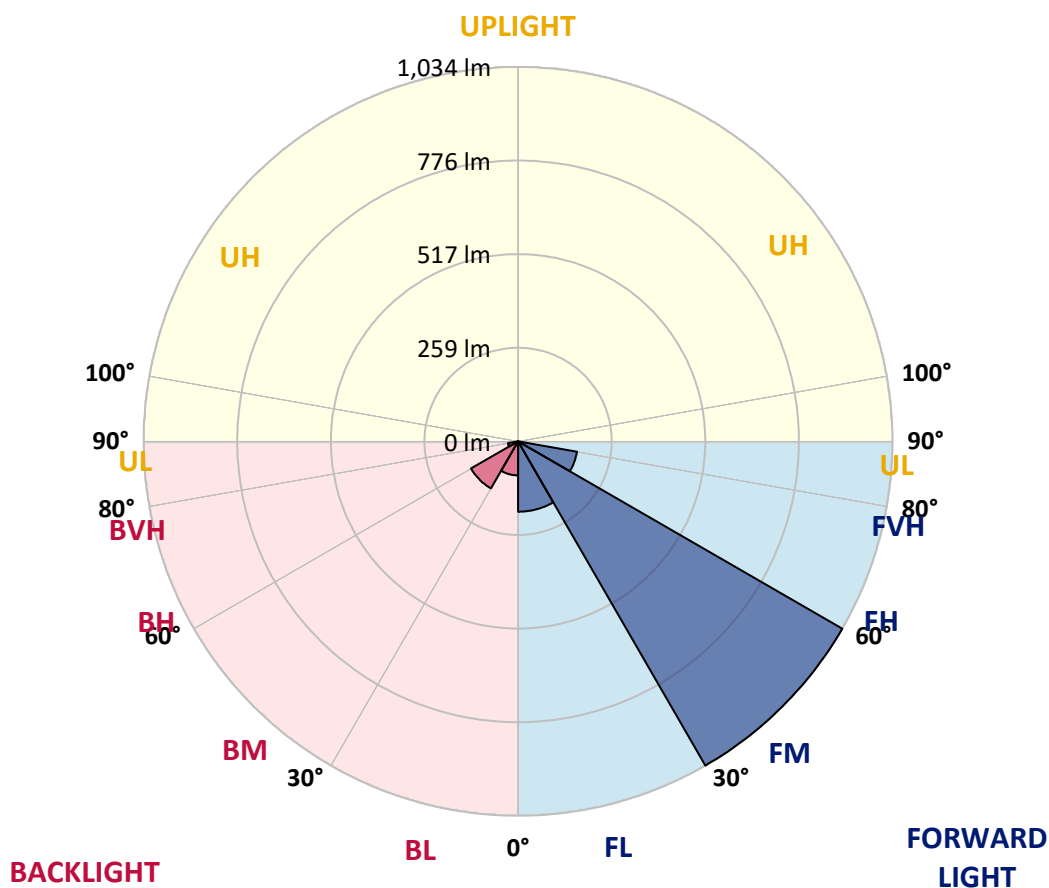
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.4	11.7			
FM (30°-60°)	1034.2	62.1			
FH (60°-80°)	165.3	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	93.9	5.6	B0/110		
BM (30°-60°)	150.0	9.0	B0/220		
BH (60°-80°)	28.3	1.7	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°	65°	75°	76°	85°
0°	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9
2.5°	310.4	313.7	312.6	310.6	309.4	305.2	302.6	295.0	289.5	288.9	283.9
5°	349.6	349.0	348.2	345.8	343.8	337.2	329.3	316.5	305.0	303.6	292.9
7.5°	371.2	371.6	372.0	371.6	370.2	365.1	356.5	341.4	323.9	322.7	305.8
10°	380.0	380.8	382.8	386.6	390.1	389.7	384.6	369.1	347.6	345.6	322.9
12.5°	384.2	385.2	388.4	395.7	404.9	412.2	413.0	399.1	375.4	372.2	343.2
15°	390.1	391.1	395.1	404.5	418.0	432.3	441.5	432.7	406.1	402.7	365.5
17.5°	392.7	394.1	399.9	412.4	429.9	451.8	472.7	471.9	442.5	439.9	391.5
20°	397.7	398.7	403.9	417.4	438.5	470.1	505.3	517.9	487.0	483.1	422.8
22.5°	413.6	414.0	416.4	424.8	444.5	483.3	538.4	571.6	539.4	534.4	458.0
25°	439.5	439.3	440.3	441.7	456.2	496.8	570.4	632.1	599.6	594.1	497.8
27.5°	472.5	472.5	474.9	470.9	476.7	513.5	602.0	701.7	669.5	661.9	541.5
30°	511.3	511.1	516.7	510.3	512.1	539.8	636.0	777.5	754.0	744.5	591.7
32.5°	564.0	562.8	569.2	560.4	554.3	579.7	677.4	856.7	855.1	840.6	654.9
35°	630.5	628.5	630.5	621.9	611.0	635.4	731.7	935.7	967.3	952.0	730.1
37.5°	696.7	703.1	705.3	690.4	681.6	705.9	797.0	1006.5	1074.5	1058.6	808.3
40°	774.7	772.7	780.3	763.6	758.0	784.9	860.9	1059.2	1159.3	1144.2	877.8
42.5°	832.2	835.8	845.3	836.0	831.6	856.9	914.6	1089.9	1218.2	1203.3	927.5
45°	901.2	903.8	907.4	899.7	895.1	920.1	953.4	1103.4	1263.1	1247.0	960.9
47.5°	975.7	977.8	977.8	962.1	947.2	957.5	979.4	1111.1	1304.3	1288.8	985.6
50°	1029.2	1030.2	1039.1	1028.0	995.7	979.8	991.2	1118.5	1331.6	1317.1	993.6
52.5°	981.8	980.6	1009.7	1032.6	1041.3	1009.7	1011.7	1129.4	1344.9	1332.4	1000.1
55°	826.8	824.8	865.8	921.5	997.7	1038.1	1036.5	1135.8	1359.6	1351.9	1023.4
57.5°	599.4	595.9	653.0	715.0	814.9	924.5	988.8	1132.2	1366.0	1365.4	1050.5
60°	360.3	357.5	411.4	476.5	553.7	663.9	770.7	1014.1	1280.0	1281.2	980.0
62.5°	221.8	224.4	273.0	306.2	335.0	368.1	429.9	682.2	948.2	956.0	688.6
65°	149.2	151.2	196.2	238.1	238.1	194.6	167.1	326.1	505.9	492.6	325.7
67.5°	100.1	102.3	137.9	186.8	193.8	135.7	67.8	97.3	140.9	136.7	80.6
70°	58.9	61.3	91.9	128.1	141.1	94.5	45.2	41.2	40.0	38.8	31.4
72.5°	26.3	27.3	46.8	65.1	59.5	39.8	32.0	33.0	31.2	30.6	25.5
75°	8.0	8.4	12.1	14.1	14.3	14.3	19.3	25.9	24.5	24.7	19.7
77.5°	2.0	2.0	3.2	3.0	1.6	1.4	3.6	5.8	6.0	5.4	4.0
80°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
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°	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9
2.5°	281.7	276.5	273.0	268.2	264.8	261.2	258.0	255.3	253.9	253.5	253.7
5°	288.1	279.9	271.8	262.6	256.2	250.1	245.3	241.5	239.7	239.1	239.1
7.5°	298.0	286.5	272.2	257.8	246.9	237.5	231.8	227.6	226.0	225.6	224.4
10°	310.8	295.2	271.6	249.1	233.8	224.0	220.0	218.8	219.4	219.6	219.4
12.5°	326.3	304.2	267.8	236.4	220.0	213.9	214.3	217.5	221.2	223.0	223.4
15°	342.8	312.4	259.2	221.4	208.1	207.9	213.7	221.2	228.2	231.2	232.0
17.5°	361.3	319.1	245.9	205.3	197.8	203.7	214.1	225.6	235.0	240.1	241.1
20°	381.6	324.5	229.0	190.2	188.8	199.3	213.7	227.8	239.5	245.1	246.1
22.5°	402.7	328.3	209.5	176.3	180.6	194.2	209.9	223.6	234.6	241.1	241.9
25°	426.9	328.7	189.6	164.7	172.9	187.4	200.7	211.9	221.2	226.8	227.4
27.5°	448.0	323.9	171.9	155.2	165.9	178.9	187.8	194.0	200.5	203.7	203.9
30°	472.3	315.5	155.2	147.6	158.6	168.5	172.9	174.3	174.9	175.5	174.7
32.5°	501.2	305.2	142.8	140.1	150.4	157.0	158.2	155.4	152.0	147.2	146.0
35°	536.8	296.0	132.5	132.9	141.3	145.4	144.4	138.3	131.7	125.9	124.9
37.5°	575.4	288.1	124.7	125.9	131.5	134.3	131.3	124.7	121.6	116.6	116.8
40°	609.6	281.7	117.6	118.8	121.4	124.1	119.2	114.8	120.4	120.0	120.4
42.5°	633.9	276.3	111.6	111.0	112.8	114.6	111.0	108.8	118.2	115.6	117.0
45°	648.2	271.2	106.6	102.9	105.8	109.0	106.6	103.7	107.0	94.9	93.9
47.5°	657.9	268.4	102.1	95.1	100.1	105.8	100.7	93.9	89.3	78.8	78.0
50°	658.9	267.0	96.9	87.1	93.5	99.5	93.7	84.2	77.6	73.0	72.4
52.5°	664.1	269.8	89.7	76.8	83.8	93.5	89.5	80.0	71.0	67.0	66.1
55°	687.4	281.7	77.6	62.7	73.0	88.9	86.1	71.4	62.7	60.3	59.7
57.5°	711.6	284.1	61.1	49.7	63.5	82.2	78.6	65.7	57.3	54.5	53.9
60°	650.6	234.0	45.8	41.0	56.1	76.0	72.8	62.3	52.5	49.1	48.5
62.5°	427.5	126.5	36.4	34.8	47.2	64.3	66.3	56.3	46.8	43.2	43.0
65°	197.0	58.7	27.9	27.5	37.0	51.3	57.1	49.3	39.6	36.4	36.4
67.5°	53.7	29.2	21.9	20.3	25.1	34.4	41.6	36.8	28.1	24.3	24.1
70°	26.7	23.5	19.7	17.5	18.1	21.3	24.5	20.5	14.3	11.7	11.5
72.5°	21.9	19.3	16.7	14.9	13.7	13.1	12.7	10.3	6.6	5.0	4.8
75°	16.3	13.9	11.9	9.7	8.2	7.6	6.8	5.0	2.8	1.6	1.4
77.5°	3.6	3.4	3.2	2.4	2.2	1.8	1.4	1.0	0.4	0.0	0.0
80°	0.2	0.2	0.2	0.2	0.2	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)