

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: P628839

Luminaire Tested: GWS-SA1A-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-740-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

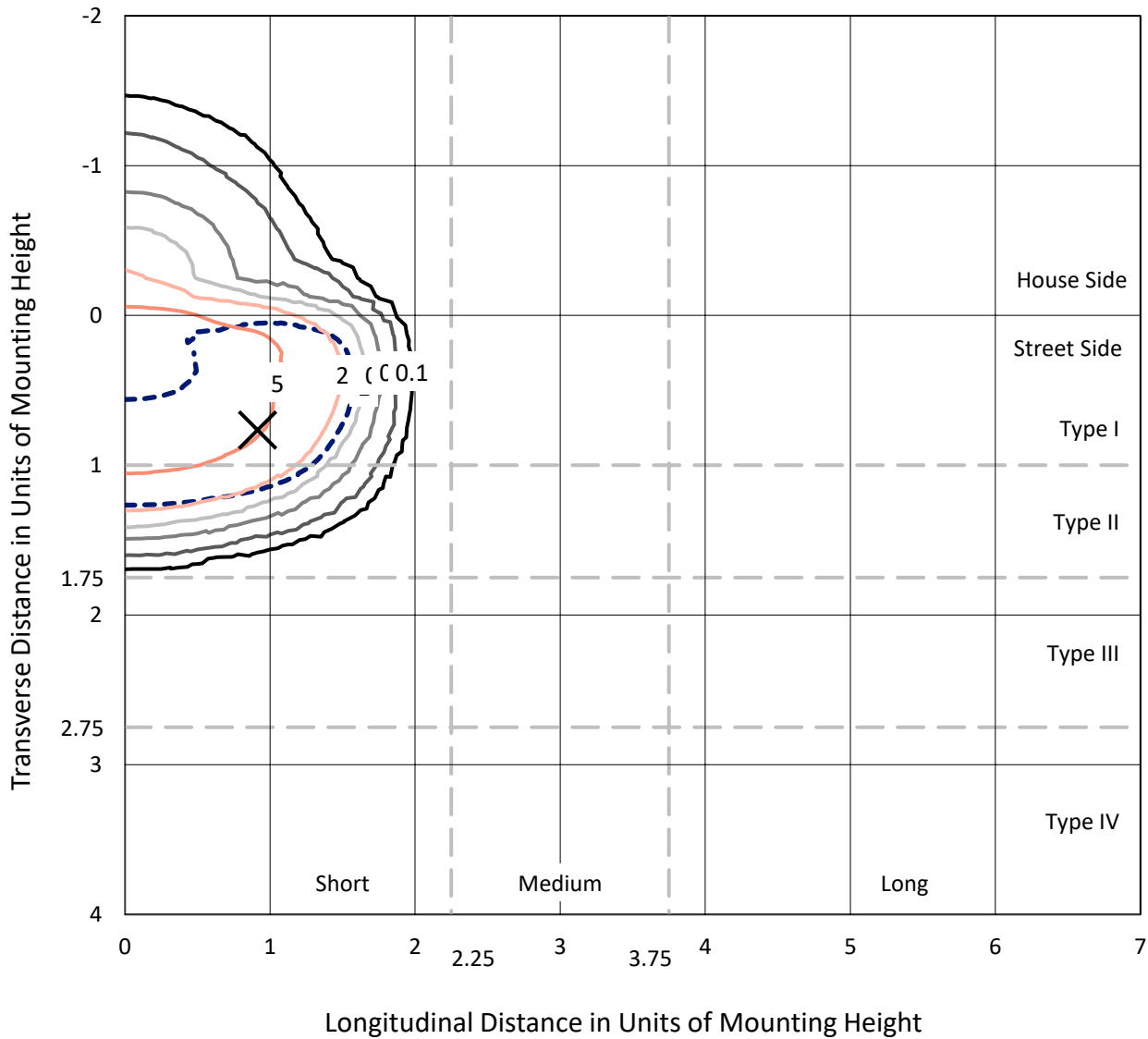
Lumens per Lamp: N/A  
Luminaire Lumens: 2141.8 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

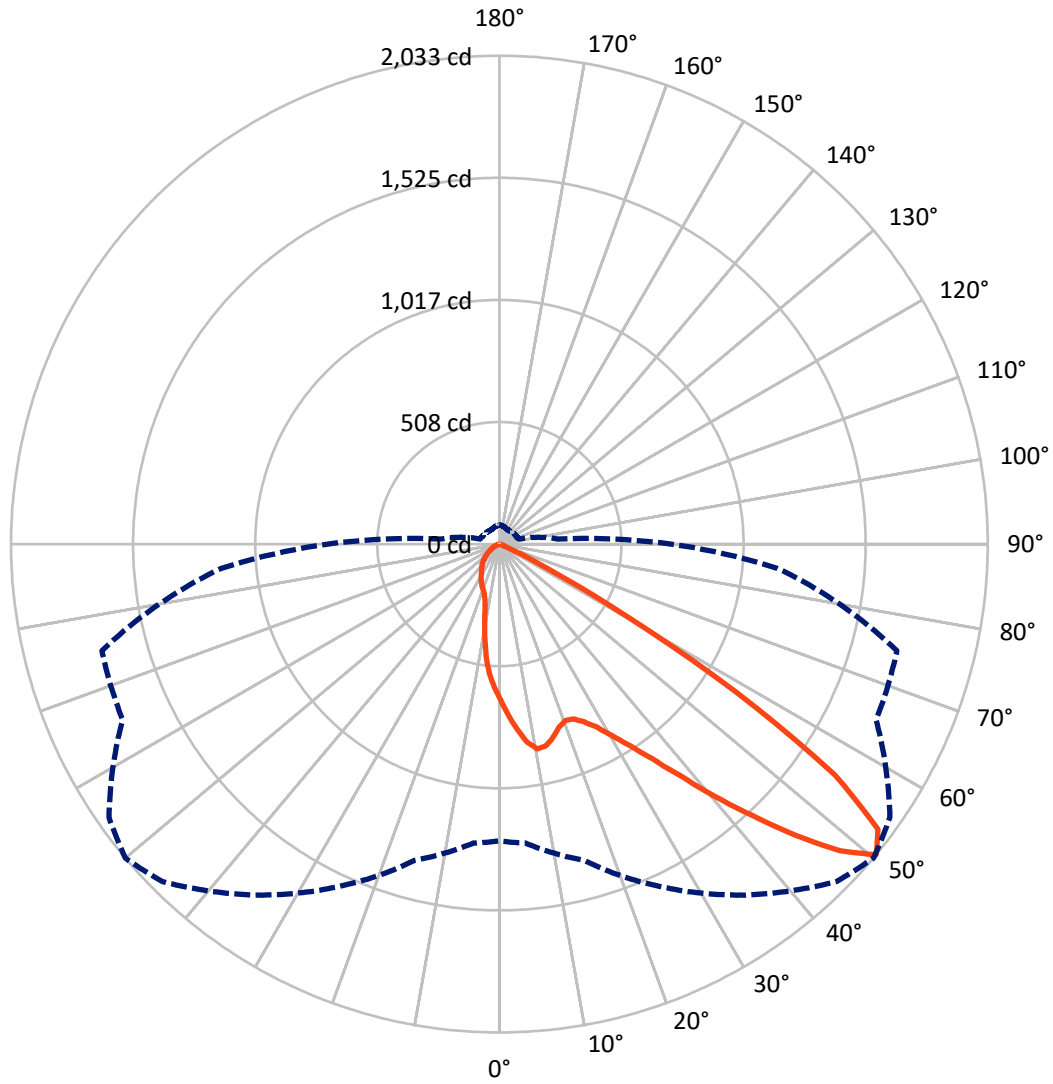
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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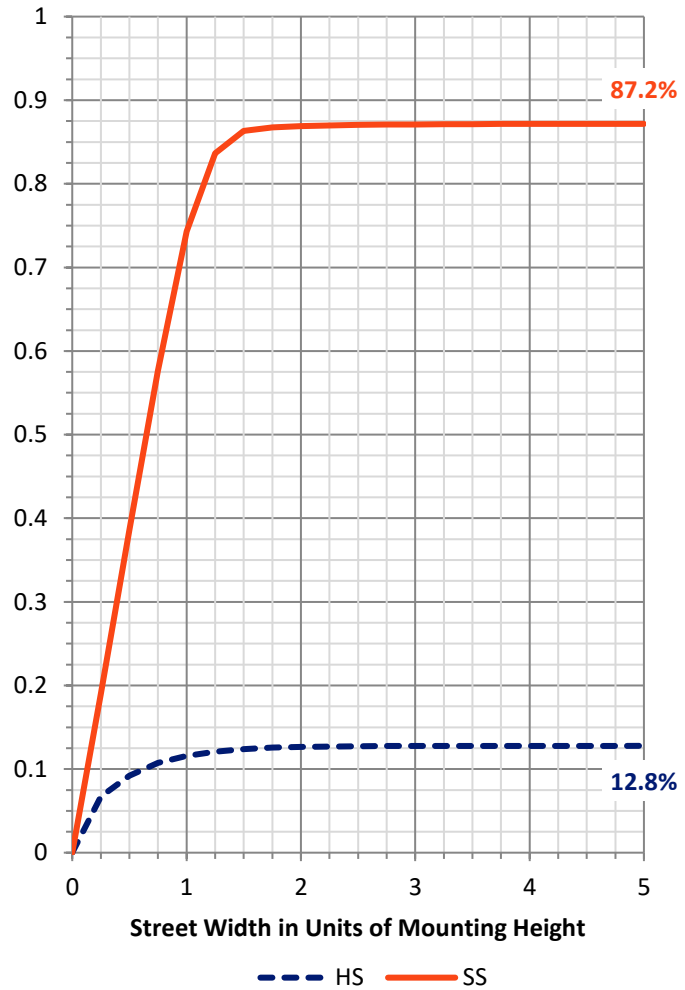
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	275.2	0.0	275.2
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	1866.6	0.0	1866.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	2141.8	0.0	2141.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	2.8
10°-20°	155.3	7.3
20°-30°	256.3	12.0
30°-40°	423.0	19.7
40°-50°	669.2	31.2
50°-60°	506.7	23.7
60°-70°	63.4	3.0
70°-80°	7.2	0.3
80°-90°	0.5	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°	2141.8	100.0
0°-180°	2141.8	100.0

**Coefficient of Utilization**



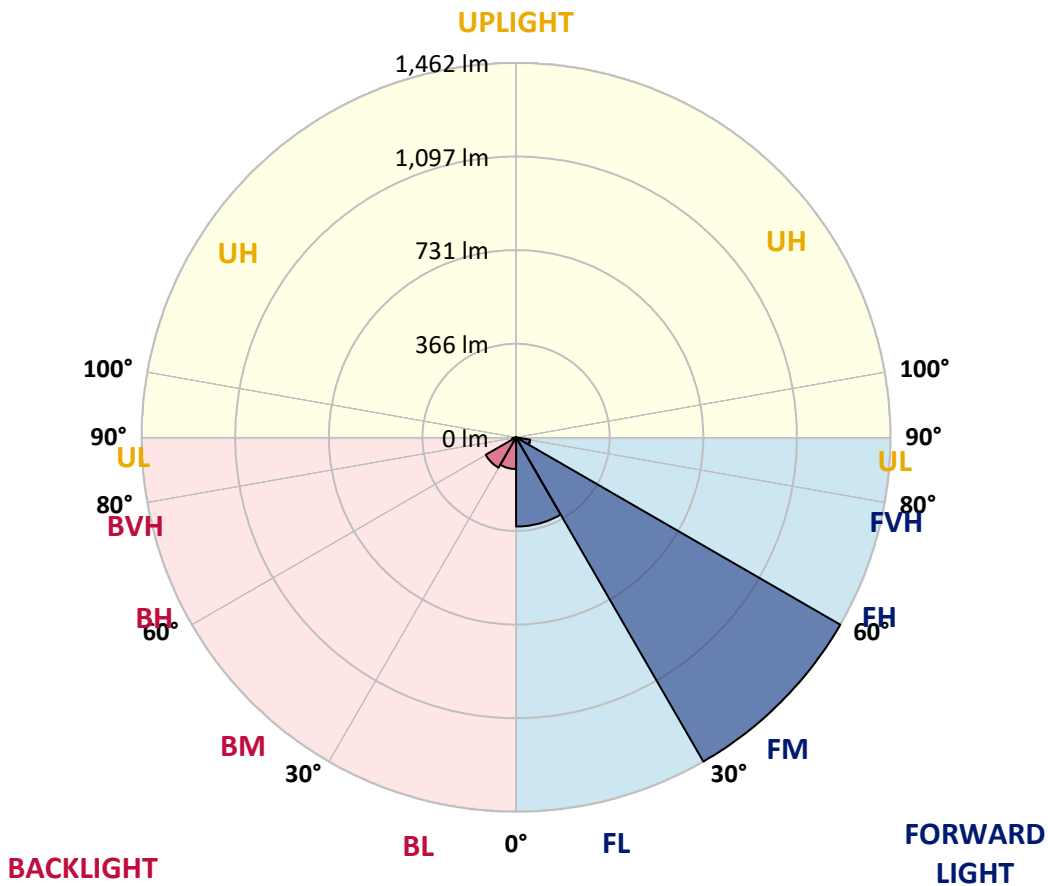
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.3	16.3			
FM (30°-60°)	1462.0	68.3			
FH (60°-80°)	56.1	2.6			G0/660
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	123.5	5.8	B1/500		
BM (30°-60°)	136.9	6.4	B0/220		
BH (60°-80°)	14.5	0.7	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9
2.5°	739.4	745.3	743.7	735.9	727.6	721.7	712.5	709.6	688.8	674.4	659.1
5°	828.7	830.5	828.5	819.1	804.4	790.4	775.3	766.5	731.6	700.3	668.2
7.5°	850.1	847.8	851.7	856.4	854.4	848.3	832.4	822.8	781.2	730.0	681.5
10°	783.2	778.1	792.6	816.9	842.3	871.1	867.0	867.8	829.5	767.5	698.8
12.5°	694.5	692.5	703.3	731.4	781.4	846.6	862.3	888.6	873.7	808.1	718.6
15°	655.6	656.6	663.2	680.9	716.8	797.9	835.6	883.1	913.3	847.4	740.4
17.5°	661.5	665.2	665.0	670.9	692.7	757.7	801.8	865.8	943.9	892.7	765.5
20°	701.7	705.3	699.8	695.4	702.7	747.5	784.0	848.3	964.5	938.4	792.0
22.5°	761.8	766.1	753.1	740.2	735.5	764.3	790.8	841.1	980.1	980.1	815.6
25°	834.6	840.5	820.3	797.5	784.4	799.5	819.5	857.2	996.3	1017.7	831.7
27.5°	915.9	916.1	898.8	873.1	848.7	850.5	862.5	893.5	1014.0	1058.0	844.4
30°	1007.5	1008.1	985.0	954.3	923.5	915.1	925.3	948.8	1050.9	1108.8	861.9
32.5°	1125.7	1128.6	1095.5	1050.3	1010.3	994.6	1000.5	1025.2	1109.6	1172.4	888.2
35°	1285.5	1288.6	1239.9	1180.1	1116.5	1092.9	1098.8	1123.7	1194.6	1262.7	930.2
37.5°	1443.3	1447.4	1398.1	1342.4	1255.2	1216.0	1222.1	1245.8	1322.2	1387.5	997.5
40°	1552.4	1557.9	1542.6	1505.1	1424.2	1372.8	1380.1	1388.7	1462.7	1536.7	1084.7
42.5°	1609.9	1617.6	1624.1	1643.3	1600.7	1557.7	1545.2	1545.9	1605.6	1688.8	1175.4
45°	1613.3	1620.9	1654.3	1728.3	1760.7	1751.8	1729.1	1713.8	1714.7	1790.1	1232.1
47.5°	1501.2	1515.3	1577.9	1722.8	1844.7	1919.1	1907.7	1871.4	1760.5	1796.8	1226.0
50°	1235.6	1249.4	1363.2	1571.7	1783.6	1986.0	2033.1	1984.4	1730.6	1713.0	1163.0
52.5°	897.4	898.8	972.6	1216.2	1535.7	1862.7	1973.6	1968.9	1684.9	1611.5	1077.0
55°	426.3	421.2	504.1	686.4	1062.1	1506.5	1693.4	1746.5	1620.1	1538.1	1010.3
57.5°	124.1	126.6	163.5	267.9	531.3	962.8	1159.7	1258.4	1329.8	1264.5	783.6
60°	55.7	55.9	62.2	81.5	176.9	447.9	599.5	721.7	795.0	736.7	388.8
62.5°	40.4	40.6	43.0	46.1	60.1	151.7	224.9	299.7	305.2	199.8	98.5
65°	33.6	33.6	34.0	34.0	36.1	54.2	68.3	88.1	74.2	55.0	38.5
67.5°	27.1	27.3	27.7	27.7	27.1	27.1	29.4	32.2	34.5	42.6	35.5
70°	21.2	21.0	21.0	21.2	20.6	17.5	19.0	21.6	23.6	33.2	30.8
72.5°	16.5	16.7	16.5	15.7	14.3	10.4	11.2	14.1	15.1	20.8	20.8
75°	12.4	12.6	11.8	9.0	5.9	3.3	4.3	6.9	8.8	10.2	7.5
77.5°	1.6	1.6	1.2	1.2	1.0	1.2	1.2	1.6	2.4	2.4	1.8
80°	0.2	0.2	0.2	0.4	0.6	0.8	0.8	0.8	0.8	1.0	1.0
82.5°	0.2	0.2	0.2	0.2	0.6	0.6	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.2	0.4	0.6	0.6	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.2	0.4	0.6	0.6	0.6	0.8	0.8	0.8
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°	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9
2.5°	649.9	638.1	623.8	614.0	600.2	591.0	577.9	569.2	561.6	555.7	559.0
5°	650.1	631.3	602.2	577.3	550.2	525.3	498.6	477.6	458.7	450.1	454.8
7.5°	654.2	627.3	582.6	538.4	486.4	435.0	386.9	347.8	328.4	319.2	322.1
10°	662.1	625.4	560.8	487.4	403.0	332.9	286.2	259.7	248.9	243.2	244.2
12.5°	669.5	624.2	532.5	420.4	318.0	258.3	234.0	230.4	232.6	232.8	232.6
15°	679.5	622.0	497.4	351.5	254.4	223.2	223.8	229.1	234.4	236.1	235.7
17.5°	690.1	618.5	452.2	285.4	215.9	213.0	220.2	227.3	232.6	233.4	233.6
20°	701.1	611.4	400.6	233.0	197.9	205.3	213.2	218.5	222.4	223.6	224.0
22.5°	706.2	596.3	341.1	195.5	185.9	195.7	201.6	208.5	209.8	205.3	206.1
25°	703.5	570.8	283.0	170.2	173.9	183.7	192.4	189.0	183.9	180.6	181.6
27.5°	695.2	537.0	226.1	151.7	161.0	173.5	174.5	170.6	169.8	167.2	168.0
30°	686.2	498.0	181.8	136.8	148.0	161.0	158.0	159.4	159.6	156.6	157.6
32.5°	680.7	457.3	144.7	126.8	139.6	142.1	148.2	151.1	151.3	144.1	145.4
35°	682.5	417.1	122.5	118.6	131.9	131.3	139.8	141.5	129.7	119.9	120.9
37.5°	697.4	380.0	109.9	112.3	118.4	123.1	129.7	118.8	116.2	111.7	112.3
40°	725.1	348.4	102.3	108.5	109.3	116.8	106.8	108.2	108.5	105.6	106.2
42.5°	757.5	322.1	97.9	106.2	104.2	105.4	95.4	98.3	101.3	100.1	100.3
45°	773.8	296.4	94.0	98.5	99.1	87.5	85.2	88.3	92.1	92.8	93.0
47.5°	759.4	271.9	89.9	87.3	91.3	79.7	77.1	78.1	82.6	85.0	85.4
50°	715.1	243.8	83.8	77.3	75.0	71.6	69.1	69.3	74.4	78.7	79.5
52.5°	653.0	214.5	73.8	65.4	60.3	63.0	63.6	62.4	67.1	71.4	72.2
55°	592.6	177.8	58.5	53.2	48.5	54.2	55.9	54.2	55.7	58.5	58.7
57.5°	417.3	100.5	44.8	44.0	40.2	46.5	49.1	46.7	44.2	46.1	46.5
60°	193.5	52.6	34.5	34.5	33.4	40.0	44.4	41.0	36.3	37.1	37.7
62.5°	60.5	33.2	25.3	23.9	27.3	34.0	37.7	34.2	28.7	28.7	29.6
65°	34.2	28.5	20.0	18.3	22.2	27.3	29.6	25.9	21.0	20.6	20.6
67.5°	31.8	27.1	17.7	14.9	15.7	17.5	18.3	15.9	14.5	14.3	14.5
70°	26.3	22.6	14.3	10.2	9.6	9.4	9.8	9.2	8.8	9.0	9.6
72.5°	16.3	13.7	9.0	6.1	5.3	5.1	5.1	5.1	4.9	4.9	4.9
75°	5.9	5.1	4.1	3.1	2.7	2.4	2.4	2.7	2.4	2.2	2.0
77.5°	1.8	1.6	1.6	1.6	1.4	1.2	1.0	1.0	0.8	0.6	0.6
80°	1.0	1.0	1.0	1.0	0.8	0.8	0.6	0.4	0.2	0.2	0.0
82.5°	1.0	1.0	1.0	0.8	0.8	0.8	0.6	0.4	0.2	0.0	0.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.4	0.2	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.4	0.2	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)