

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: P628873

Luminaire Tested: GWS-SA1A-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-740-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

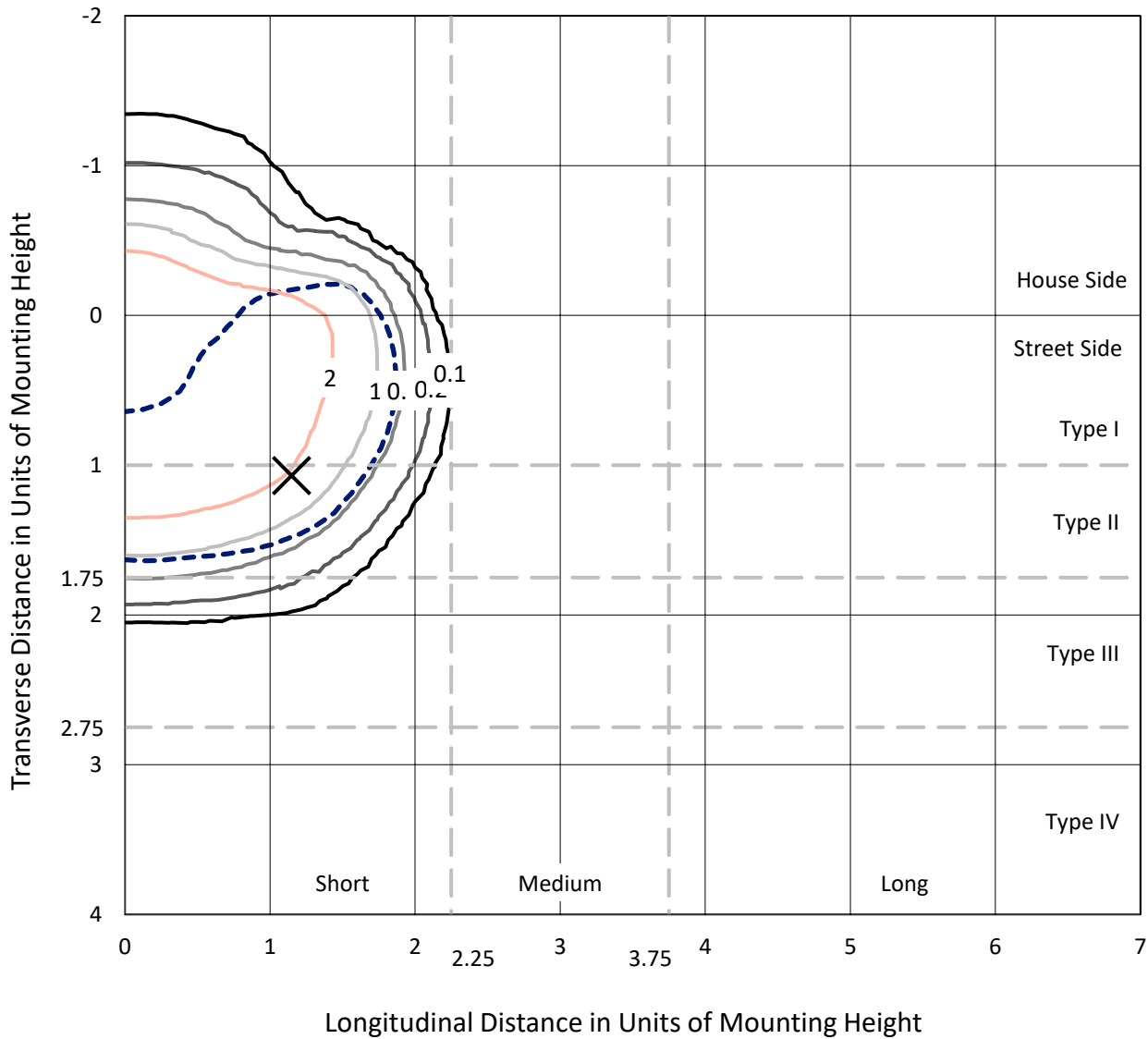
Lumens per Lamp: N/A  
Luminaire Lumens: 1756.1 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

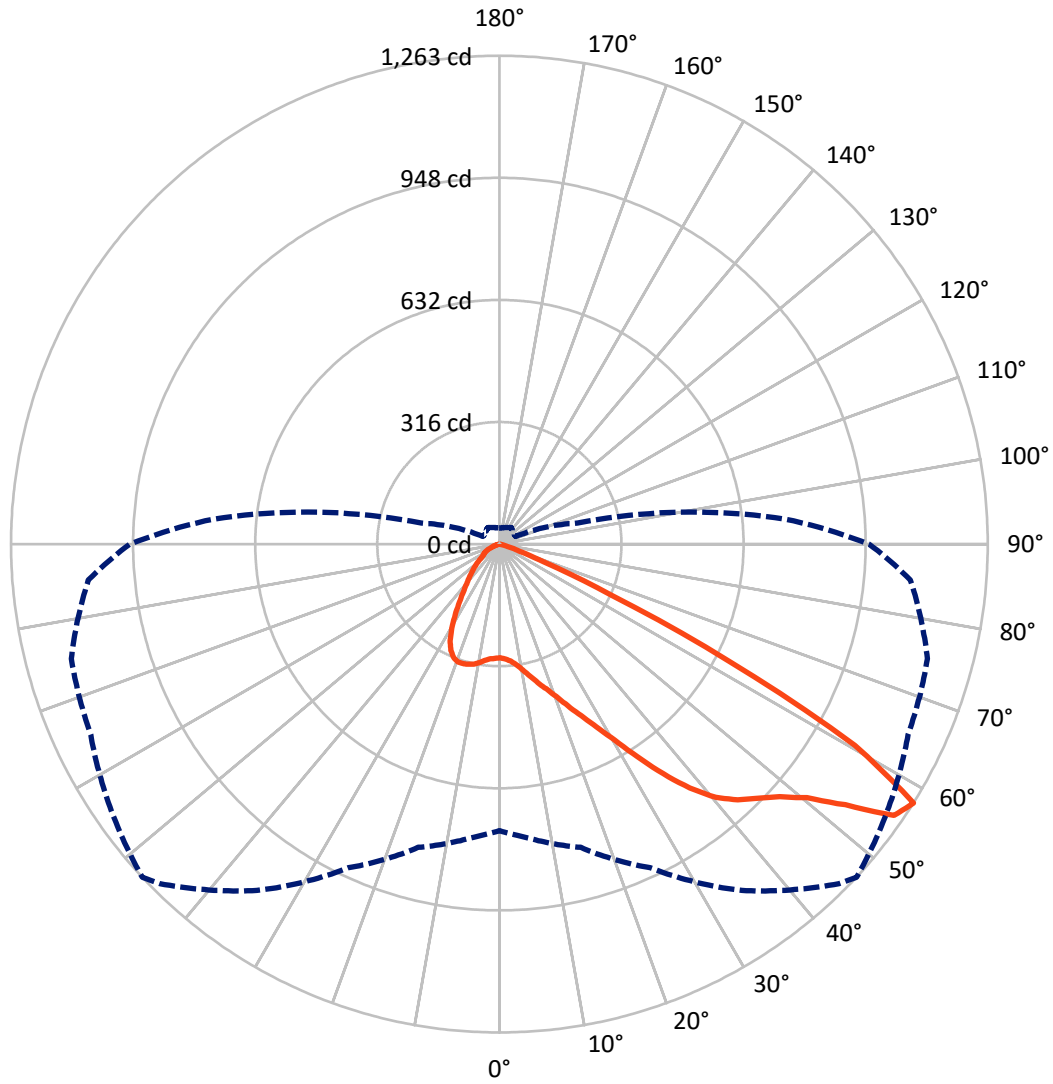
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 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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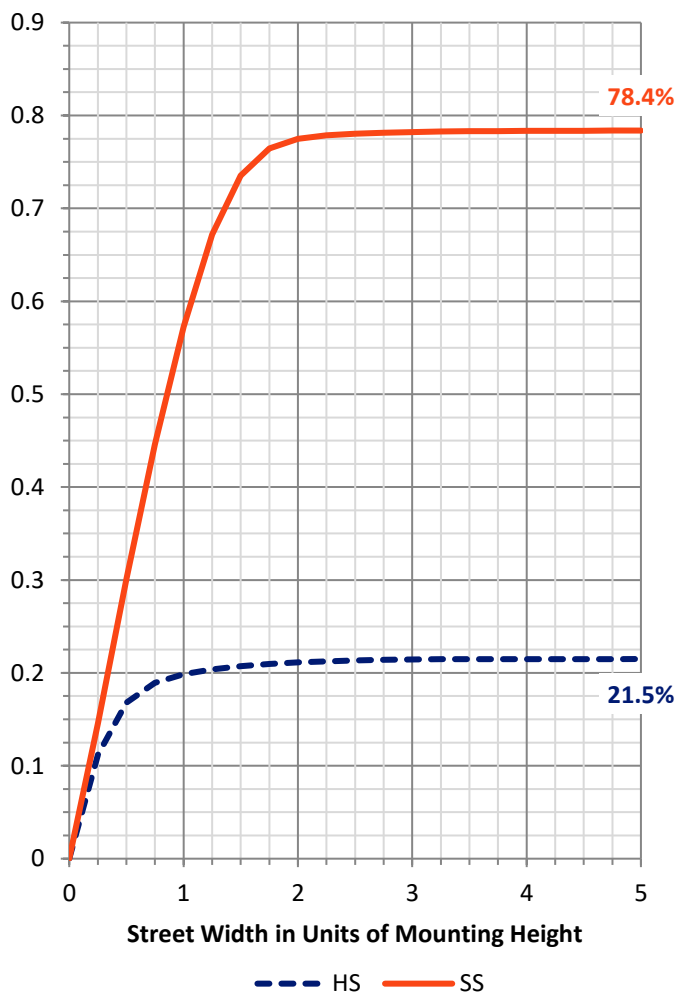
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	381.0	0.0	381.0
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	1375.1	0.0	1375.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	1756.1	0.0	1756.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.2	1.7
10°-20°	98.7	5.6
20°-30°	183.2	10.4
30°-40°	293.3	16.7
40°-50°	428.8	24.4
50°-60°	529.2	30.1
60°-70°	176.8	10.1
70°-80°	16.5	0.9
80°-90°	0.3	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°	1756.1	100.0
0°-180°	1756.1	100.0

**Coefficient of Utilization**



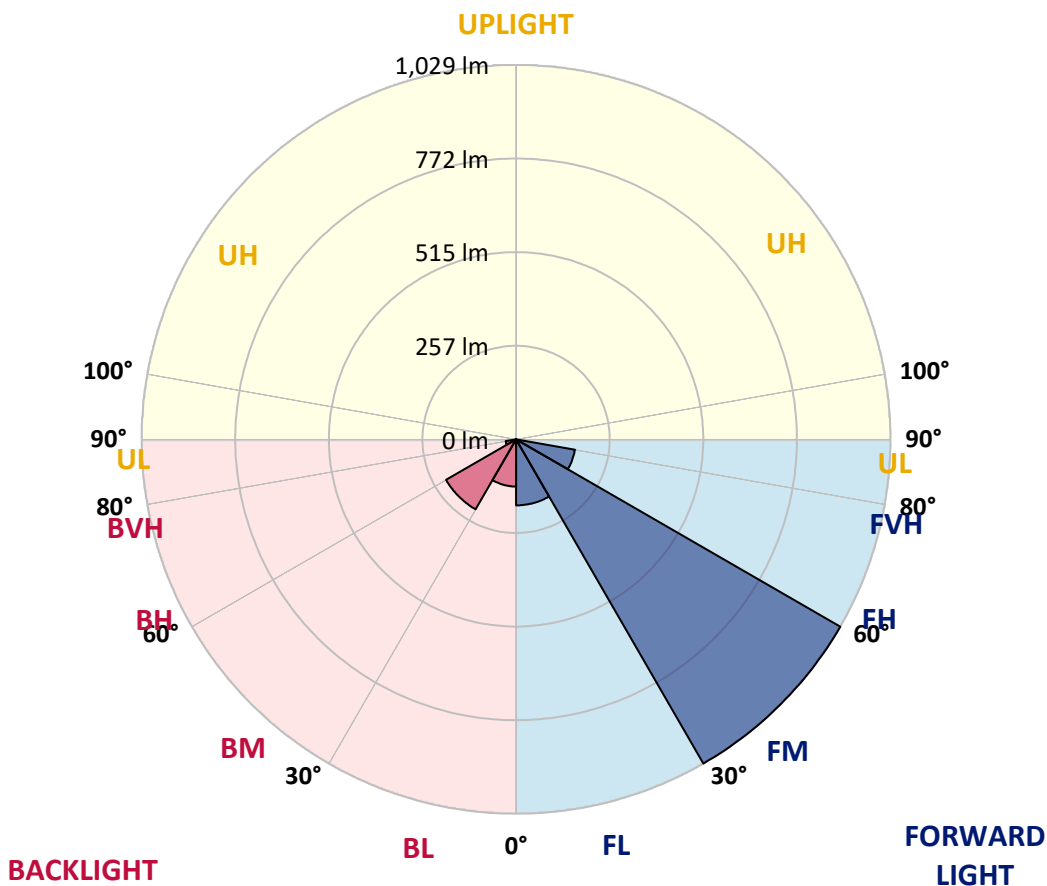
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.5	10.3			
FM (30°-60°)	1029.1	58.6			
FH (60°-80°)	164.3	9.4			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	129.7	7.4	B1/500		
BM (30°-60°)	222.2	12.7	B1/1000		
BH (60°-80°)	29.0	1.6	B0/110		G0/110
BVH (80°-90°)	0.1	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°	47°	55°	65°	75°	85°
0°	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	297.0	296.8	296.6	297.8	297.4	297.2	297.6	297.6	297.6	296.4	294.0
5°	304.2	304.2	304.0	305.2	304.2	303.6	303.8	303.8	302.9	300.7	297.6
7.5°	315.4	315.0	314.6	315.8	314.8	314.6	315.0	313.7	312.3	308.7	304.4
10°	331.5	331.5	330.9	332.1	331.3	330.9	330.9	330.1	327.4	321.7	315.4
12.5°	353.7	352.7	351.3	350.2	349.8	349.6	349.8	348.6	345.8	338.4	329.6
15°	378.0	377.1	374.9	373.3	371.0	370.6	371.8	370.8	368.0	358.0	345.6
17.5°	408.5	409.6	403.9	400.4	393.9	393.5	393.9	395.5	393.5	380.6	362.5
20°	434.6	435.5	431.2	428.7	422.8	420.2	421.0	423.6	421.4	406.3	381.0
22.5°	462.6	463.6	459.1	454.0	451.4	451.4	454.4	458.1	455.0	435.3	402.2
25°	496.0	496.8	493.1	486.4	481.7	487.6	492.1	501.9	496.8	469.9	427.3
27.5°	534.3	534.5	529.2	522.3	519.9	530.9	535.3	550.4	548.4	508.8	453.8
30°	575.3	575.5	574.3	569.6	567.4	581.8	587.9	609.8	608.3	557.2	489.9
32.5°	617.9	617.9	620.2	619.7	622.4	646.0	655.8	680.7	679.3	616.3	534.7
35°	660.7	660.9	664.8	674.6	685.6	717.0	729.8	760.0	756.7	687.0	592.0
37.5°	709.4	707.4	712.7	727.4	751.9	788.1	800.4	829.1	825.4	759.4	666.8
40°	768.2	764.5	764.5	781.6	809.3	851.1	861.5	875.8	863.4	817.9	740.2
42.5°	833.0	829.5	825.0	840.1	863.4	896.0	904.5	900.7	890.5	873.2	823.8
45°	898.6	893.3	896.4	905.6	919.0	934.5	937.8	919.8	915.1	920.0	892.9
47.5°	948.6	944.9	952.5	965.3	976.3	978.6	976.3	951.4	951.0	968.4	940.8
50°	965.3	965.7	986.5	1014.6	1032.4	1034.2	1031.1	1002.6	998.7	1003.8	966.7
52.5°	966.9	968.6	998.9	1052.6	1100.9	1122.9	1120.4	1089.7	1051.7	1046.2	1005.9
55°	927.6	937.2	979.6	1057.9	1160.6	1230.9	1239.1	1180.2	1123.9	1119.2	1090.1
57.5°	741.5	761.0	812.2	923.7	1093.9	1242.1	1263.4	1220.9	1166.5	1146.5	1067.4
60°	443.2	467.5	516.6	653.4	832.6	1021.0	1057.4	1063.4	1038.3	980.6	818.9
62.5°	190.2	188.2	248.7	353.5	495.2	648.9	665.4	691.1	712.9	652.6	497.0
65°	65.2	70.9	98.7	159.4	247.9	301.3	316.0	339.0	370.0	305.4	182.1
67.5°	40.4	42.8	56.9	94.2	133.7	131.7	125.2	121.5	118.2	80.9	49.9
70°	29.4	31.4	40.0	64.8	89.9	63.2	54.8	44.4	49.3	45.5	35.5
72.5°	19.8	21.4	27.5	39.3	46.1	30.8	28.5	32.4	39.1	37.3	28.9
75°	11.8	12.8	15.7	19.2	18.8	15.9	16.1	22.8	30.0	27.9	20.6
77.5°	8.2	8.6	10.4	12.4	9.2	4.9	4.5	6.3	10.2	10.2	6.9
80°	2.0	2.7	2.7	1.6	1.4	1.2	1.2	1.8	2.9	2.0	1.0
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
87.5°	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
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°	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	295.4	293.0	294.6	294.2	295.4	295.8	294.0	293.6	293.8	291.3	290.5
5°	298.3	295.4	296.2	295.4	296.8	298.1	297.4	298.3	299.3	297.4	296.6
7.5°	304.4	301.5	301.3	300.1	302.1	302.9	302.7	305.0	307.0	305.8	304.6
10°	315.0	311.1	310.7	309.7	310.3	310.9	308.7	309.1	310.9	309.5	308.9
12.5°	328.0	323.3	322.3	319.9	319.9	316.8	311.9	310.9	312.3	311.3	310.3
15°	342.1	335.8	334.1	329.9	325.8	320.1	315.0	313.7	314.8	313.5	312.7
17.5°	357.8	350.6	345.3	337.8	328.8	322.1	316.4	313.7	312.1	309.7	309.5
20°	373.3	363.9	354.9	342.9	331.1	320.9	311.5	304.6	298.7	295.0	293.6
22.5°	391.2	377.4	362.9	346.0	329.0	313.5	297.0	285.2	275.0	271.5	269.9
25°	410.4	392.4	370.8	348.8	322.1	297.2	274.8	257.3	243.8	239.3	237.5
27.5°	431.6	406.9	379.0	348.2	307.8	274.0	244.2	222.4	209.2	205.1	206.5
30°	458.5	425.7	389.2	341.9	286.4	241.4	206.5	188.2	178.2	174.3	174.5
32.5°	494.4	452.6	404.1	328.4	258.9	204.3	173.7	160.2	153.5	148.4	148.0
35°	545.7	493.6	417.9	306.8	225.5	171.2	149.0	138.4	129.0	123.1	124.2
37.5°	607.3	545.1	425.5	277.7	188.0	145.6	130.5	119.7	109.1	100.3	101.3
40°	680.3	612.6	424.9	239.3	153.7	128.0	115.0	102.3	89.1	81.1	82.0
42.5°	761.6	676.4	411.6	198.8	127.4	113.8	100.1	84.2	71.4	66.5	66.7
45°	832.2	728.2	388.4	156.8	107.2	99.9	84.6	68.3	62.6	59.1	58.9
47.5°	884.4	766.1	355.1	123.3	90.9	87.3	69.5	61.2	56.7	53.8	53.4
50°	913.5	779.4	318.4	96.6	76.9	74.0	62.2	55.5	52.4	50.6	50.2
52.5°	952.7	795.3	292.1	76.2	64.4	60.5	57.3	51.6	49.5	48.1	47.5
55°	1014.6	826.1	269.3	60.5	53.6	52.8	54.0	49.3	48.1	45.9	45.1
57.5°	956.3	742.1	209.2	46.9	45.3	48.3	52.2	47.1	44.0	42.0	41.2
60°	673.0	493.4	105.2	37.7	40.4	45.3	49.1	42.6	39.5	40.0	39.5
62.5°	371.0	246.9	47.3	31.6	35.1	40.0	42.0	36.9	34.9	38.3	38.9
65°	121.3	84.0	27.3	24.5	27.7	32.6	36.3	35.1	34.7	38.7	40.0
67.5°	37.3	27.7	18.6	17.5	19.2	24.1	30.6	37.9	40.8	42.0	42.6
70°	27.9	21.8	15.9	14.9	15.7	18.3	25.9	31.6	29.8	30.0	29.6
72.5°	22.4	17.3	13.7	13.0	13.0	12.6	13.7	17.1	19.4	20.4	20.4
75°	15.7	12.2	10.4	9.6	7.5	6.1	5.5	5.5	4.9	4.7	4.5
77.5°	5.3	4.5	4.1	3.3	2.2	1.8	1.6	1.4	1.0	0.6	0.4
80°	0.8	0.6	0.4	0.4	0.4	0.2	0.2	0.2	0.0	0.0	0.0
82.5°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	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)