

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: P628994

Luminaire Tested: GWS-SA1A-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

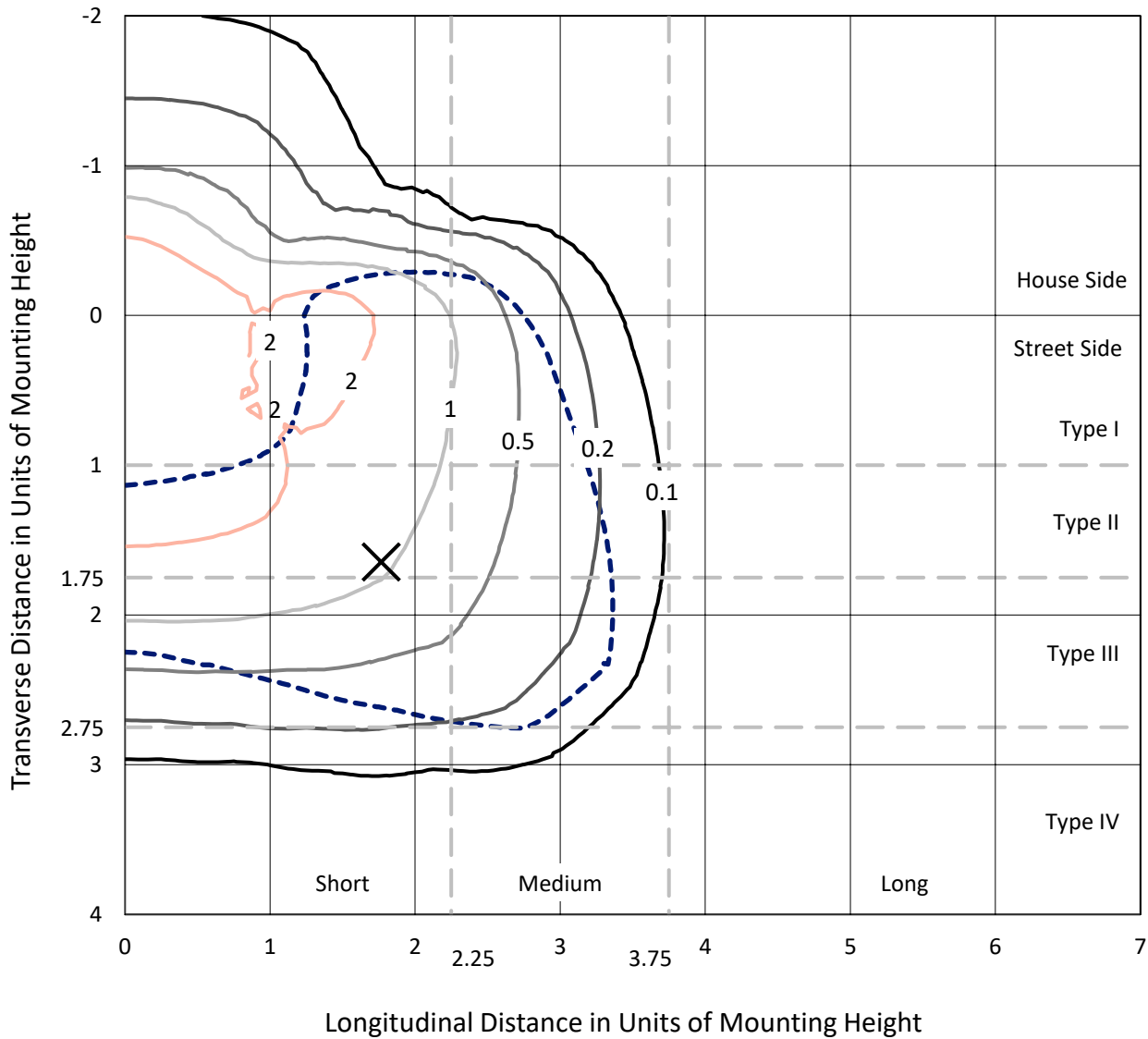
Lumens per Lamp: N/A  
Luminaire Lumens: 2844.5 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

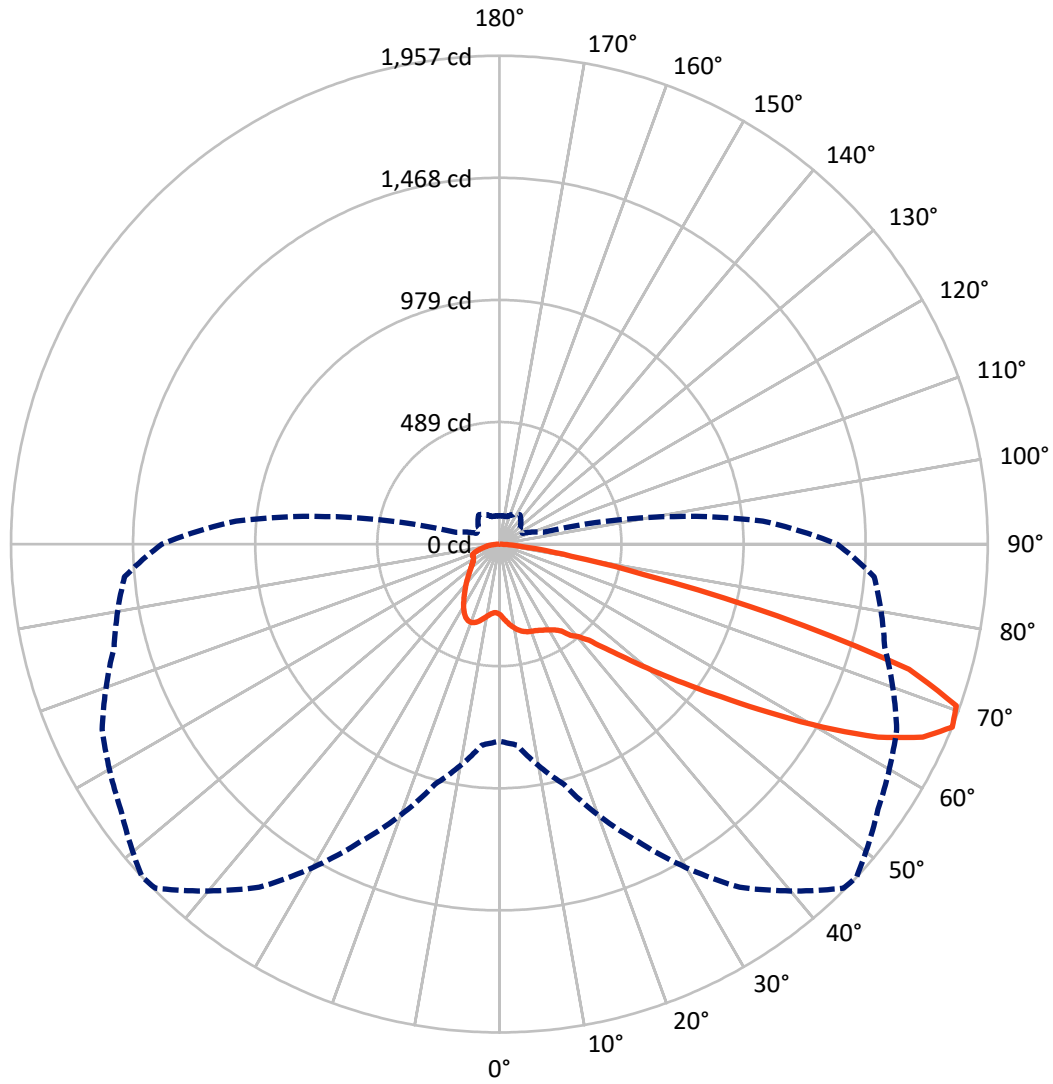
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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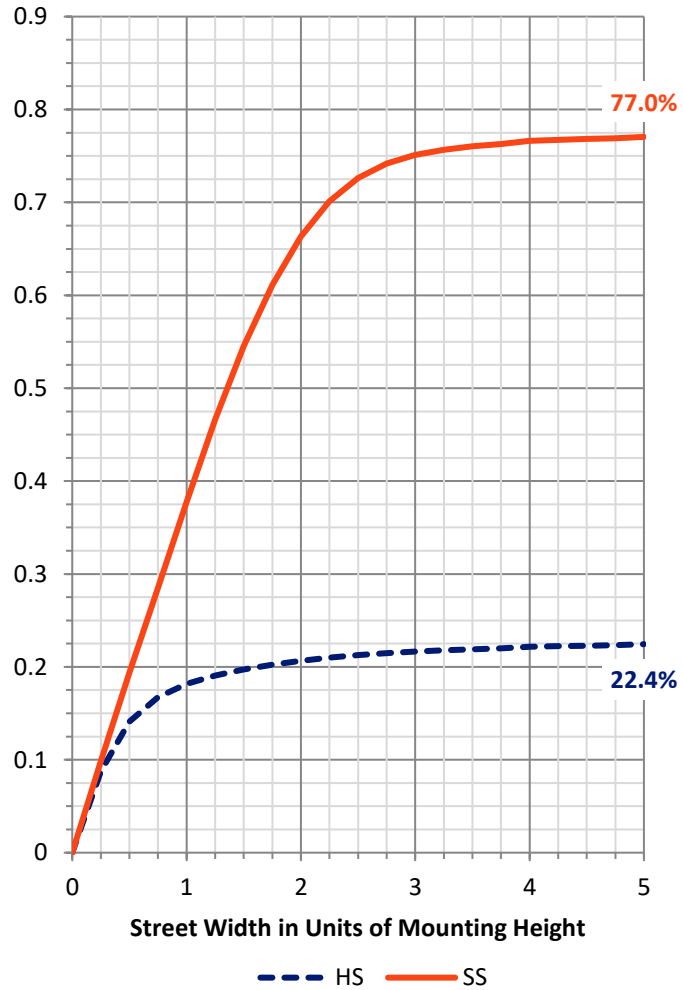
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	648.3	0.0	648.3
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	2196.2	0.0	2196.2
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	2844.5	0.0	2844.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.8	1.0
10°-20°	96.0	3.4
20°-30°	163.2	5.7
30°-40°	239.1	8.4
40°-50°	364.2	12.8
50°-60°	651.7	22.9
60°-70°	869.6	30.6
70°-80°	393.3	13.8
80°-90°	38.5	1.4
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°	2844.5	100.0
0°-180°	2844.5	100.0

**Coefficient of Utilization**



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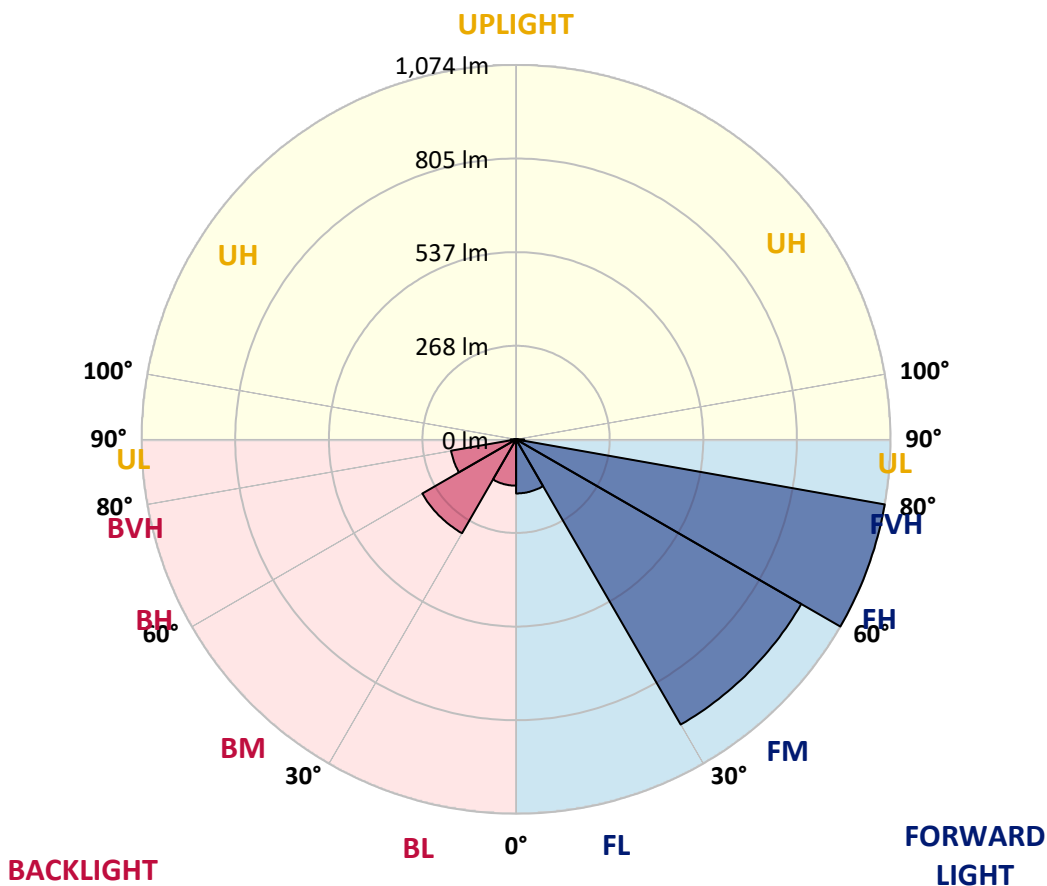
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.1	5.5			
FM (30°-60°)	944.4	33.2			
FH (60°-80°)	1073.8	37.7			G1/1800
FVH (80°-90°)	22.9	0.8			G1/100
BL (0°-30°)	132.9	4.7	B1/500		
BM (30°-60°)	310.6	10.9	B1/1000		
BH (60°-80°)	189.1	6.6	B1/500		G1/500
BVH (80°-90°)	15.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0
2.5°	300.7	301.7	301.5	299.9	298.8	297.0	297.2	294.3	290.0	287.1	283.8
5°	327.2	328.9	326.8	324.1	320.0	314.1	313.4	306.9	298.6	292.9	286.9
7.5°	350.3	351.3	348.8	344.3	338.3	330.3	328.9	321.1	310.8	301.7	293.1
10°	368.2	369.4	366.1	360.1	352.3	344.3	343.3	335.2	324.3	313.7	302.8
12.5°	383.4	383.8	380.3	372.3	363.8	355.6	354.6	347.2	337.1	326.2	314.3
15°	392.2	392.4	388.1	379.3	371.2	364.0	363.4	357.1	347.8	337.5	324.8
17.5°	391.6	392.0	388.9	381.1	374.1	369.8	369.2	365.1	357.9	348.6	335.9
20°	384.0	384.4	382.3	377.2	373.5	372.3	372.5	371.2	366.9	359.3	346.4
22.5°	378.0	378.6	376.8	373.1	372.7	375.6	376.2	376.8	374.7	368.0	355.4
25°	380.9	381.9	379.1	373.9	374.7	381.1	382.3	384.4	382.8	377.0	366.1
27.5°	400.9	401.5	394.1	383.6	381.1	387.9	389.8	393.0	391.8	386.5	378.0
30°	447.1	446.7	430.9	405.2	394.9	397.6	399.0	403.7	404.2	400.7	392.6
32.5°	512.3	510.3	485.8	444.9	415.1	408.5	410.1	416.5	421.2	417.5	406.6
35°	581.2	579.4	552.4	504.5	452.3	429.4	427.6	432.5	439.7	429.4	413.8
37.5°	646.8	644.0	616.4	557.2	498.1	466.3	463.6	458.7	454.3	434.6	422.7
40°	719.7	716.4	692.3	625.3	548.7	494.4	487.7	468.1	464.2	451.7	445.7
42.5°	797.4	797.4	777.5	711.4	609.8	534.8	525.9	496.5	500.6	492.4	485.4
45°	875.1	877.4	861.6	798.2	691.5	610.9	596.7	554.9	564.8	561.1	557.6
47.5°	941.4	945.7	942.6	886.9	791.4	703.4	681.8	638.4	659.6	668.4	678.3
50°	1012.7	1017.5	1014.4	992.4	908.5	815.5	796.2	751.3	787.7	814.3	846.6
52.5°	1118.7	1125.5	1099.7	1091.3	1050.6	942.8	925.5	874.5	940.6	984.6	1056.6
55°	1208.1	1207.9	1198.9	1218.2	1203.2	1098.5	1079.4	1033.1	1117.4	1164.1	1269.4
57.5°	1249.7	1254.6	1285.7	1340.4	1370.4	1288.8	1270.5	1223.1	1307.3	1331.5	1445.3
60°	1271.1	1277.2	1337.3	1445.5	1526.3	1496.5	1489.3	1429.0	1476.3	1473.5	1593.6
62.5°	1241.0	1253.4	1349.8	1493.6	1637.6	1705.2	1703.0	1611.9	1620.1	1591.9	1685.5
65°	1103.2	1116.6	1268.0	1469.5	1701.1	1864.0	1864.6	1777.4	1730.5	1649.5	1670.1
67.5°	789.0	808.1	995.3	1314.9	1678.7	1949.8	1957.0	1852.5	1756.5	1598.5	1508.0
70°	430.1	444.1	590.7	955.8	1476.7	1929.2	1942.6	1816.3	1642.1	1382.8	1160.8
72.5°	195.4	199.9	274.8	524.5	1008.8	1660.6	1716.6	1620.9	1348.6	1021.4	738.2
75°	89.5	91.5	119.7	250.9	527.1	1111.3	1150.5	1207.3	938.5	645.0	384.8
77.5°	56.1	56.8	68.1	114.8	262.9	554.7	596.0	718.8	549.6	319.2	160.8
80°	33.1	33.7	42.4	62.1	123.4	253.8	293.1	284.2	258.3	137.8	73.2
82.5°	16.7	17.3	24.5	35.4	67.3	101.0	118.9	119.5	96.3	74.7	41.3
85°	6.0	6.2	8.0	14.0	28.6	33.3	37.2	45.5	47.1	43.4	20.0
87.5°	0.0	0.0	0.2	0.4	0.8	3.3	3.5	6.6	13.8	15.4	8.0
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°	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0
2.5°	282.8	279.7	278.7	277.7	276.0	275.4	274.2	272.9	272.9	271.7	271.1
5°	284.2	280.1	277.5	276.2	275.2	275.8	275.8	276.2	277.7	276.8	277.2
7.5°	289.4	284.7	281.0	279.9	279.9	282.4	284.0	286.1	288.8	289.2	289.2
10°	298.4	292.9	289.0	288.4	289.4	292.9	295.3	297.8	301.1	301.3	301.7
12.5°	308.3	302.8	298.8	299.7	300.7	305.2	307.9	310.0	313.2	313.2	313.0
15°	318.6	312.4	309.1	310.8	313.9	319.0	319.4	319.6	321.3	320.9	320.6
17.5°	329.3	322.7	320.2	322.7	326.0	328.5	326.4	323.5	322.9	322.1	321.7
20°	339.8	333.0	332.0	333.8	334.8	332.8	326.4	321.1	318.6	317.4	316.9
22.5°	348.8	343.1	342.4	342.4	337.3	330.1	320.6	313.4	310.2	308.5	308.1
25°	359.5	354.2	353.1	347.6	334.4	321.3	308.5	301.9	299.3	298.4	298.6
27.5°	372.1	368.4	365.1	349.2	326.2	305.6	291.2	288.4	287.3	288.4	289.0
30°	387.5	383.8	376.4	347.2	313.0	285.3	271.5	271.3	274.4	277.0	277.5
32.5°	400.0	398.4	386.3	340.6	294.5	262.9	251.1	252.0	257.5	261.2	261.8
35°	409.9	412.6	394.5	329.7	272.5	241.7	232.4	232.8	235.9	241.1	241.3
37.5°	423.9	432.9	401.9	313.0	247.2	223.4	214.9	211.8	211.4	212.9	213.3
40°	452.1	465.6	407.2	288.8	222.7	206.9	197.4	191.5	186.3	182.4	181.2
42.5°	494.6	510.3	410.3	259.4	200.9	190.7	180.0	172.4	163.3	155.1	152.2
45°	572.8	577.9	410.3	228.1	181.6	175.4	164.7	155.7	144.2	134.5	132.5
47.5°	697.9	681.4	410.7	197.9	164.5	162.1	152.8	142.5	129.8	121.8	120.5
50°	886.3	828.5	419.2	172.8	150.3	150.8	144.0	132.7	121.1	115.2	114.1
52.5°	1099.7	1009.7	441.8	154.3	138.4	141.5	137.8	126.9	116.6	111.5	110.4
55°	1300.5	1176.3	461.1	141.1	128.3	133.7	133.5	123.4	114.1	109.0	108.4
57.5°	1471.2	1290.4	458.2	130.4	119.7	126.5	129.6	121.1	112.5	108.2	107.6
60°	1577.3	1350.9	417.3	120.5	113.1	121.3	127.3	120.5	113.3	112.3	112.5
62.5°	1623.4	1339.8	338.7	113.1	108.8	118.9	129.8	124.8	120.9	123.4	124.8
65°	1551.8	1244.3	249.3	107.6	104.7	119.5	135.5	131.6	120.9	122.6	123.2
67.5°	1353.1	1059.2	180.2	102.0	99.5	121.3	143.8	130.6	113.9	113.9	112.7
70°	975.1	761.8	130.8	96.5	94.4	118.7	144.2	123.6	105.9	105.3	102.2
72.5°	586.8	449.4	102.0	90.3	86.6	105.3	135.1	115.4	98.1	93.0	89.3
75°	304.8	225.2	85.6	83.5	74.2	89.3	123.6	102.6	83.9	79.4	77.3
77.5°	130.6	105.3	73.4	74.5	61.7	75.1	99.8	88.9	74.5	68.7	66.8
80°	64.4	59.9	58.0	59.6	49.4	58.0	86.0	77.7	63.1	56.6	53.9
82.5°	36.8	35.0	41.8	42.4	35.2	48.5	72.6	65.8	52.2	45.0	40.7
85°	17.1	18.3	25.3	25.5	21.8	33.3	47.5	37.0	27.8	23.0	22.0
87.5°	6.8	8.0	11.1	10.9	6.4	6.2	4.1	2.3	1.9	1.6	1.4
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)