

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: P629102

Luminaire Tested: GWS-SA1A-830-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629102  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-830-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

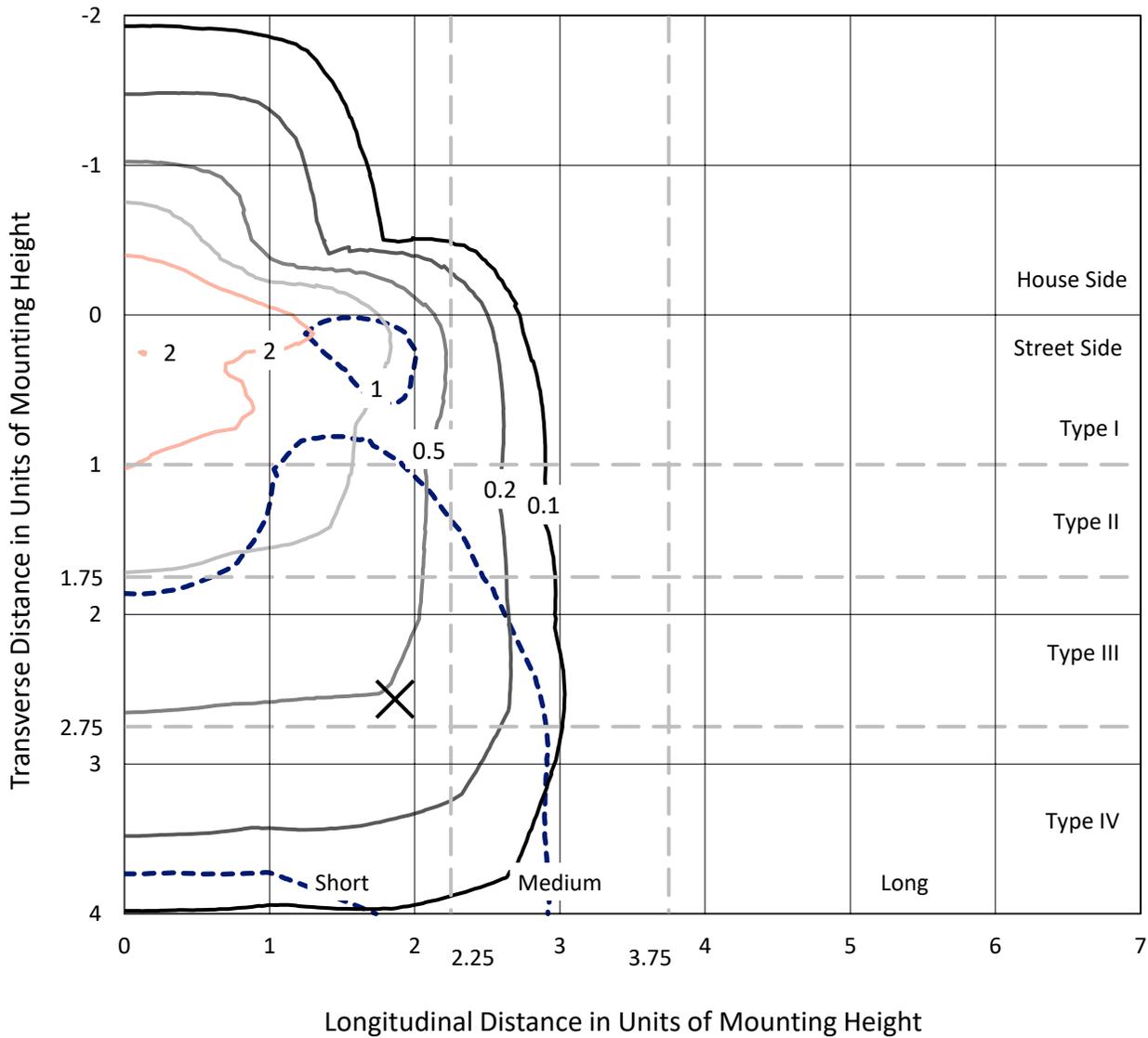
Lumens per Lamp: N/A  
Luminaire Lumens: 2182 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

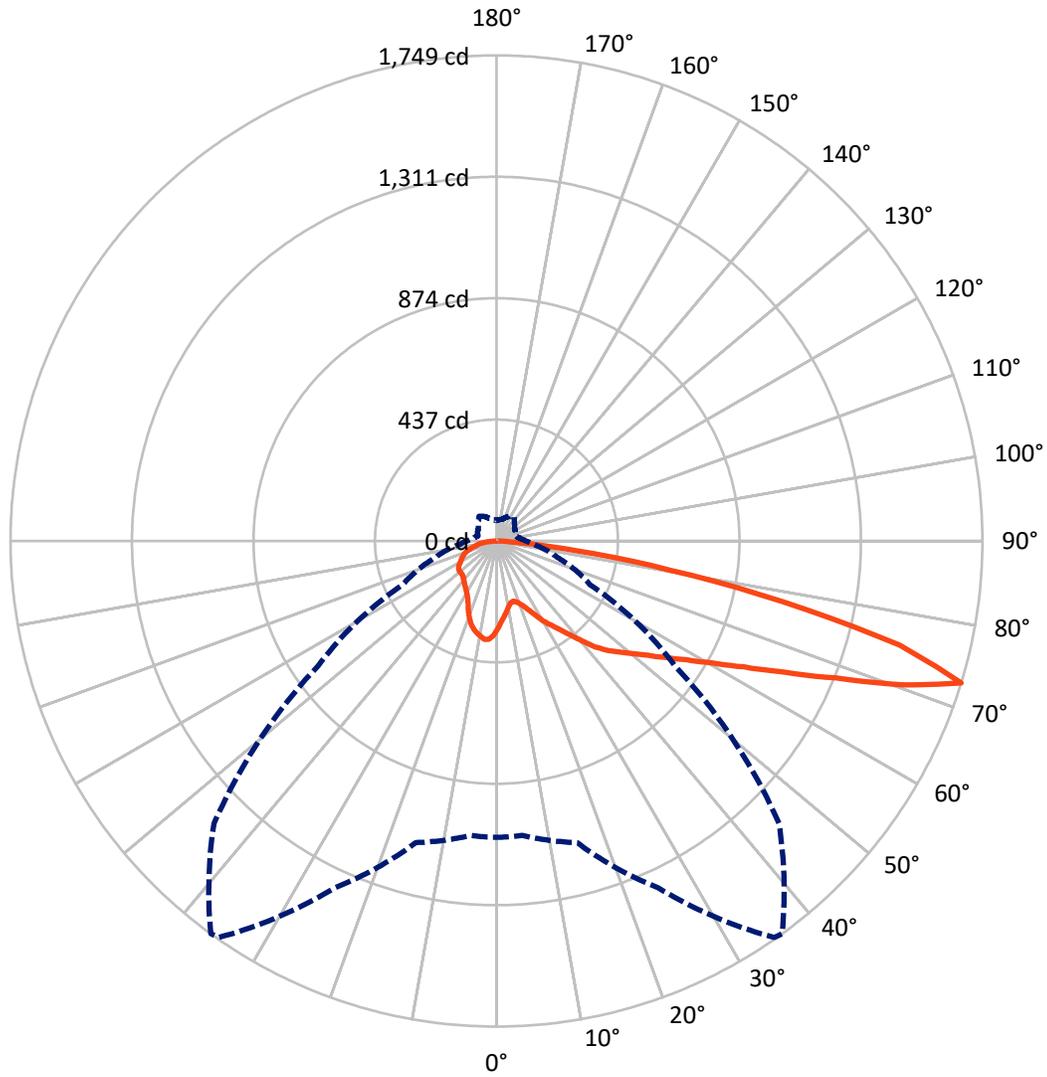
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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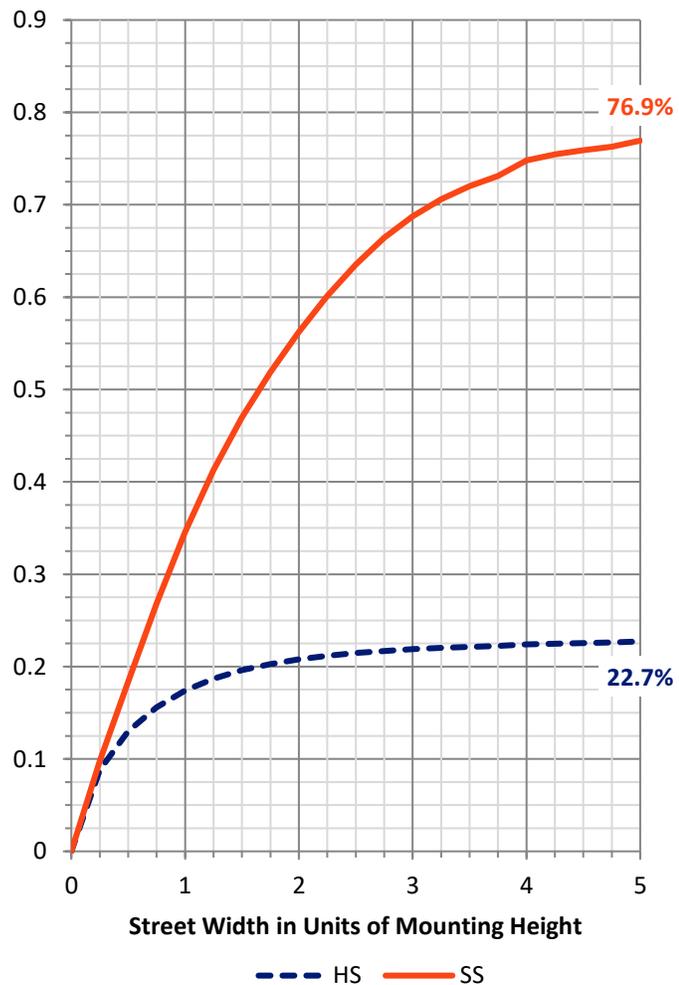
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	503.1	0.0	503.1
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	1678.9	0.0	1678.9
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	2182.0	0.0	2182.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.8	1.4
10°-20°	84.2	3.9
20°-30°	139.5	6.4
30°-40°	208.9	9.6
40°-50°	304.7	14.0
50°-60°	433.7	19.9
60°-70°	548.0	25.1
70°-80°	390.5	17.9
80°-90°	42.6	2.0
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°	2182.0	100.0
0°-180°	2182.0	100.0

**Coefficient of Utilization**



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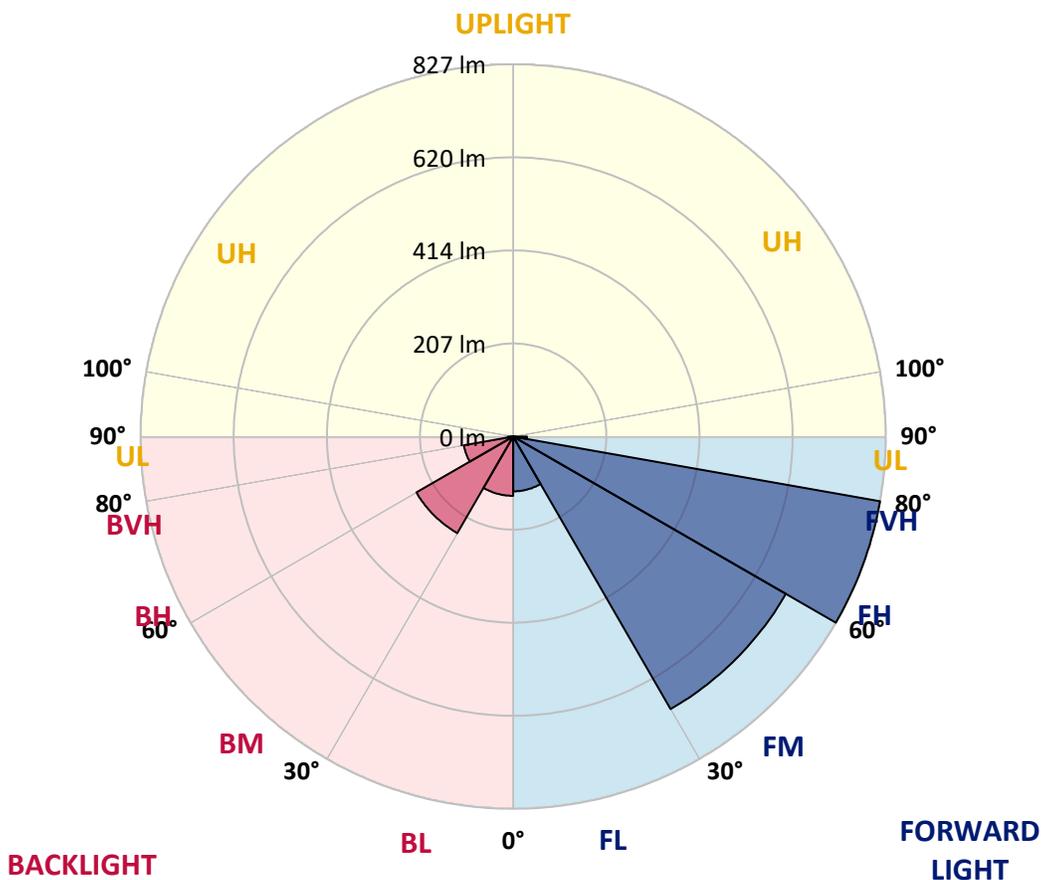
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	121.8	5.6			
FM (30°-60°)	699.3	32.0			
FH (60°-80°)	827.3	37.9			G1/1800
FVH (80°-90°)	30.6	1.4			G1/100
BL (0°-30°)	131.7	6.0	B1/500		
BM (30°-60°)	248.1	11.4	B1/1000		
BH (60°-80°)	111.2	5.1	B1/500		G1/500
BVH (80°-90°)	12.0	0.6			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3
2.5°	291.3	290.8	289.9	292.8	295.7	295.4	299.4	303.3	307.5	311.9	317.7
5°	268.0	267.7	266.9	271.2	275.6	275.5	282.1	288.4	297.0	306.4	318.0
7.5°	244.7	243.9	245.0	250.5	256.7	257.3	266.4	276.8	289.2	303.3	319.8
10°	224.1	224.0	224.4	230.6	239.8	240.5	252.1	266.6	283.1	301.9	323.9
12.5°	218.8	218.5	217.2	220.2	227.2	228.2	241.0	258.6	278.9	302.7	329.4
15°	227.5	226.7	222.2	220.7	224.1	224.9	235.8	253.9	276.4	304.1	336.3
17.5°	242.6	242.1	233.5	227.5	229.8	230.4	238.5	253.1	275.8	307.0	344.9
20°	264.6	262.5	249.1	240.0	240.0	241.0	245.8	256.7	276.6	310.6	354.6
22.5°	293.8	289.5	270.6	258.3	255.1	256.4	258.5	265.6	280.0	316.6	366.8
25°	326.5	322.6	300.1	282.7	278.2	278.7	276.9	278.2	287.4	324.9	381.9
27.5°	361.3	358.7	334.7	312.7	305.6	305.6	299.3	296.2	297.8	334.2	398.7
30°	392.4	388.8	368.6	344.4	335.1	335.1	323.1	316.4	312.5	345.7	421.2
32.5°	408.7	406.6	393.2	374.7	363.2	361.4	351.1	343.3	334.2	362.7	451.7
35°	430.1	429.6	421.5	407.1	392.5	390.0	382.8	376.7	361.0	384.0	492.1
37.5°	457.0	456.2	454.9	446.3	428.8	428.3	422.0	414.6	394.2	414.6	541.2
40°	487.1	485.7	484.0	483.9	473.4	471.6	471.1	462.7	434.2	451.5	592.4
42.5°	528.6	523.6	508.3	515.1	522.9	521.3	527.4	514.8	484.0	495.4	640.8
45°	579.6	567.3	537.2	539.1	558.7	561.9	583.3	580.2	538.9	546.1	691.8
47.5°	610.2	599.5	571.5	569.9	594.3	598.4	644.8	650.7	598.0	607.1	754.8
50°	635.3	627.8	604.8	607.1	633.0	637.1	705.9	718.4	653.8	669.6	828.0
52.5°	665.6	654.9	637.1	647.8	679.5	684.4	773.7	787.2	704.0	738.3	903.8
55°	682.6	678.2	678.5	694.9	734.7	741.4	844.8	842.6	749.9	797.1	960.8
57.5°	721.8	720.1	735.0	741.2	799.2	807.8	915.9	896.5	791.7	842.6	988.2
60°	790.9	786.9	799.8	809.2	878.8	891.0	995.3	949.3	820.1	876.4	978.9
62.5°	888.1	883.1	883.5	898.4	985.6	998.4	1083.5	993.3	828.8	881.6	920.5
65°	1008.9	1001.6	993.3	1013.6	1127.3	1138.0	1179.6	1025.4	807.9	831.7	798.4
67.5°	1136.3	1130.3	1120.6	1163.1	1310.7	1317.2	1287.3	1022.7	741.7	698.3	560.0
70°	1143.8	1145.2	1191.2	1344.7	1550.3	1551.9	1389.1	967.3	600.6	452.6	279.0
72.5°	1067.0	1064.6	1124.5	1377.9	1743.0	1748.5	1437.2	783.6	371.2	225.7	130.8
75°	866.7	870.9	933.9	1205.6	1493.9	1498.8	1171.6	462.0	176.4	110.4	83.7
77.5°	373.1	396.6	520.8	849.4	1069.9	1054.9	603.9	187.2	94.1	78.7	64.1
80°	107.7	116.9	185.6	403.9	641.1	629.8	239.0	70.1	65.6	59.1	46.0
82.5°	34.8	38.5	68.0	160.8	287.3	287.0	90.7	41.5	42.9	40.2	29.6
85°	9.7	11.2	20.9	48.7	88.9	87.1	26.2	19.6	22.8	23.2	14.7
87.5°	0.0	0.0	0.2	0.3	0.3	0.3	0.6	2.9	6.6	8.4	6.0
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°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3
2.5°	321.3	320.8	327.4	332.6	337.5	340.7	341.7	342.3	343.6	344.3	343.6
5°	323.6	326.0	337.0	345.1	351.6	355.5	355.6	355.3	356.3	355.5	355.0
7.5°	328.4	333.1	347.0	355.6	359.8	360.0	356.1	351.6	349.3	347.4	346.7
10°	334.9	341.9	357.1	362.7	361.4	355.5	346.9	339.7	335.7	332.8	332.1
12.5°	343.8	351.6	366.0	365.8	357.7	347.0	337.0	328.4	322.6	319.2	318.0
15°	352.2	362.1	372.5	364.9	352.1	339.1	326.1	314.6	306.9	301.5	300.6
17.5°	362.6	373.1	377.2	361.8	344.9	328.3	310.9	295.9	285.3	279.0	278.5
20°	374.6	384.0	379.4	356.4	335.7	313.8	290.4	273.5	262.2	256.0	256.5
22.5°	388.5	395.3	380.1	349.1	322.9	293.4	267.2	251.0	243.4	240.2	240.3
25°	403.4	407.8	378.9	339.3	303.3	268.5	243.4	235.9	235.3	234.5	234.8
27.5°	421.0	420.1	375.5	325.3	276.9	239.5	226.7	228.7	231.3	230.9	231.3
30°	444.7	435.5	371.2	306.1	245.5	215.2	216.8	222.3	225.7	226.1	227.0
32.5°	471.7	452.5	364.2	279.8	215.5	201.6	207.6	214.2	218.3	219.1	220.4
35°	504.0	471.9	351.9	247.1	194.0	193.5	199.0	203.6	207.9	208.3	208.3
37.5°	541.0	491.3	332.3	211.0	180.7	186.6	191.7	192.7	193.8	192.9	193.4
40°	575.0	510.1	304.4	178.1	169.9	180.4	184.8	181.5	178.0	175.5	176.0
42.5°	603.5	522.9	267.5	155.1	158.9	174.9	178.3	171.7	164.7	160.2	160.8
45°	635.6	534.7	224.1	139.6	149.5	171.0	173.3	164.7	155.8	149.0	148.0
47.5°	679.8	558.9	185.6	128.7	142.8	168.9	172.6	161.0	149.3	139.1	138.0
50°	734.4	593.0	153.4	121.6	139.8	167.8	172.5	156.9	143.0	131.0	130.2
52.5°	794.0	626.4	129.6	116.1	136.7	164.4	171.7	152.4	136.4	123.4	122.4
55°	833.7	639.5	113.5	110.9	131.7	159.0	168.4	148.0	126.3	114.5	113.0
57.5°	845.3	622.7	102.3	106.2	125.2	151.6	162.3	138.8	120.2	110.8	109.6
60°	825.2	580.2	95.4	102.3	118.1	142.0	151.6	133.4	115.3	106.9	106.1
62.5°	768.6	514.8	90.0	98.3	110.8	132.0	144.8	127.0	110.0	103.3	102.2
65°	654.6	422.2	85.7	94.1	103.8	122.4	137.3	120.5	104.1	99.1	97.8
67.5°	457.8	296.5	81.0	89.1	96.8	113.2	129.6	114.5	98.1	94.4	93.1
70°	223.8	157.2	75.3	83.2	89.4	103.8	121.8	107.2	90.2	88.1	86.3
72.5°	106.6	87.9	68.7	75.3	79.2	91.3	108.8	96.7	80.8	76.3	73.2
75°	71.4	62.5	59.9	65.9	66.9	76.6	93.3	83.4	71.3	66.1	63.5
77.5°	54.1	47.8	50.4	55.7	53.8	63.0	76.8	74.3	64.3	59.6	58.3
80°	38.1	34.8	40.0	43.2	41.8	53.6	69.1	63.6	53.0	47.8	46.8
82.5°	24.0	23.3	29.5	30.0	30.4	42.4	56.8	50.0	41.1	33.8	31.4
85°	12.0	13.3	17.7	17.7	17.5	21.9	32.4	28.2	22.2	17.7	17.2
87.5°	4.0	5.7	7.6	6.2	4.7	3.7	4.2	5.2	5.5	5.3	5.3
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)