

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: P629061

Luminaire Tested: GWS-SA1A-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-830-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1894.4 lumens
Efficiency: N/A
Efficacy: 96.2 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

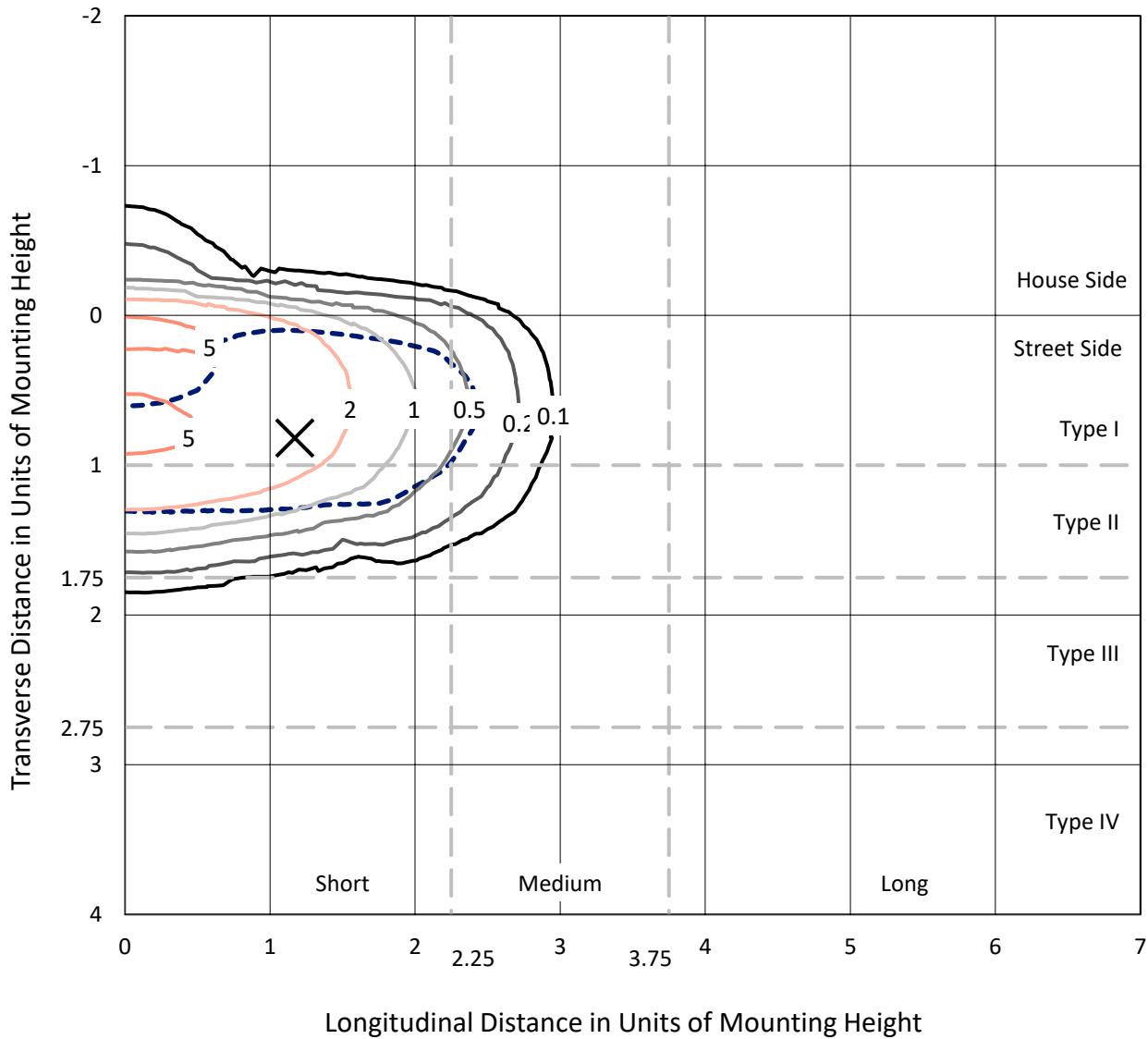
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

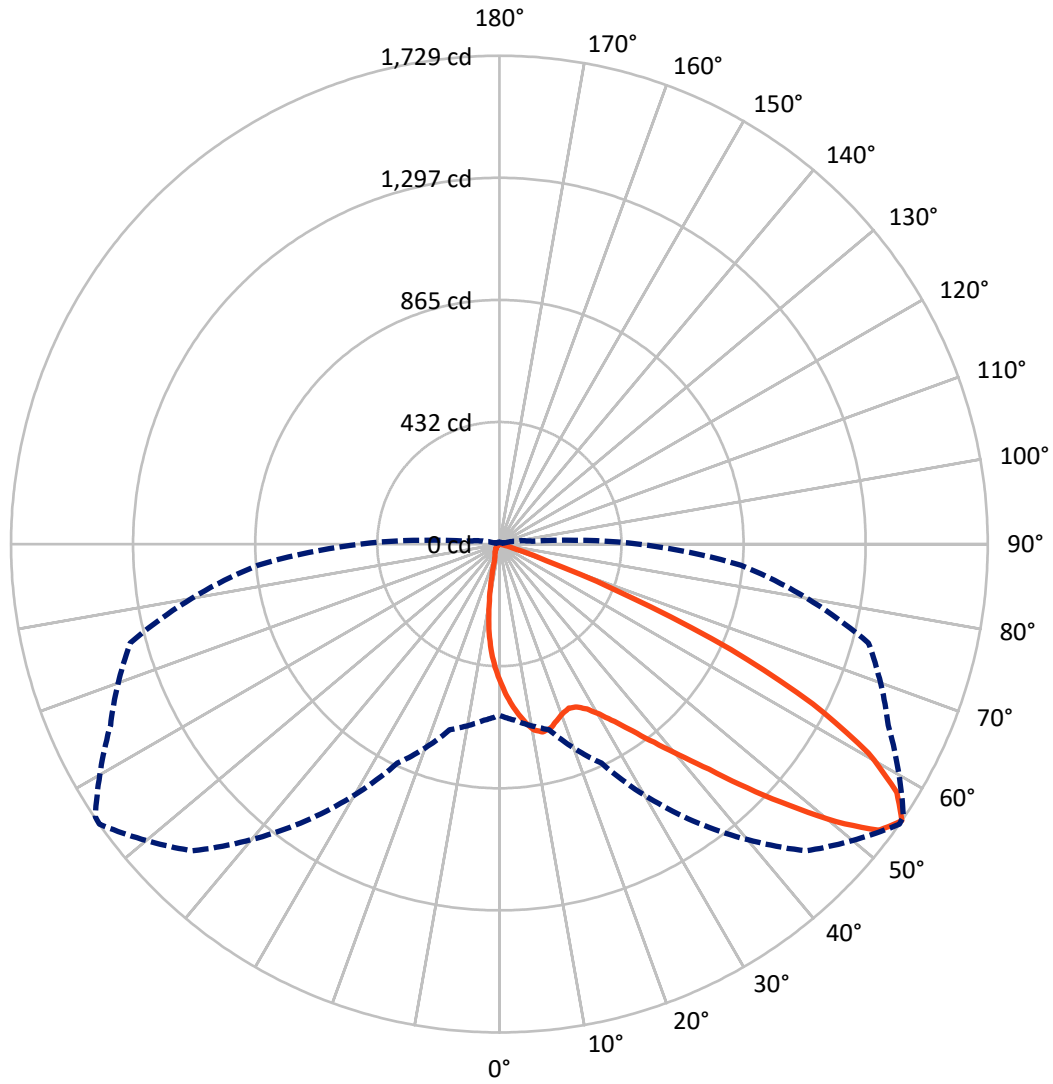
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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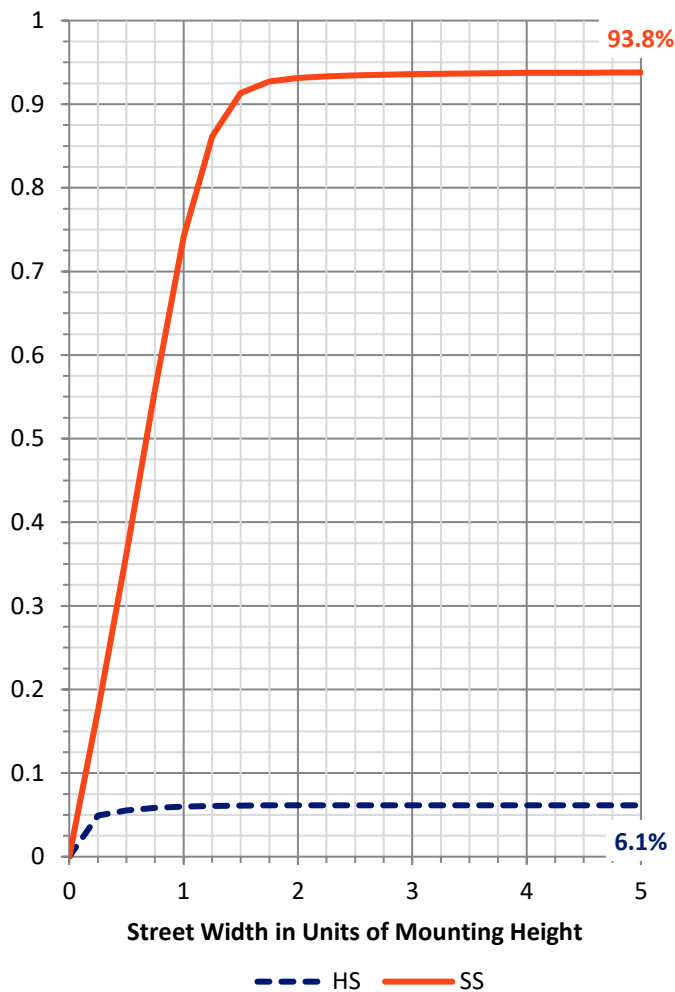
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	116.9	0.0	116.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	1777.5	0.0	1777.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	1894.4	0.0	1894.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	2.3
10°-20°	104.3	5.5
20°-30°	173.7	9.2
30°-40°	295.9	15.6
40°-50°	483.0	25.5
50°-60°	505.7	26.7
60°-70°	255.1	13.5
70°-80°	32.2	1.7
80°-90°	1.2	0.1
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°	1894.4	100.0
0°-180°	1894.4	100.0

Coefficient of Utilization



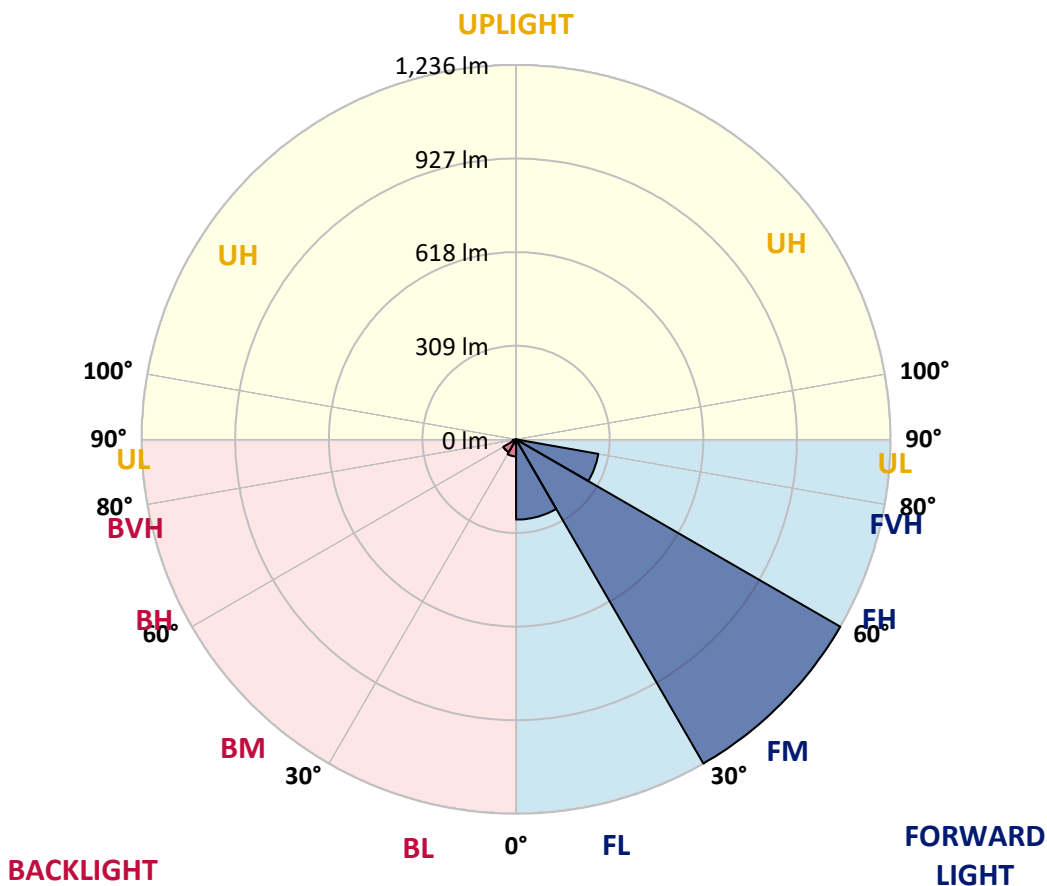
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.0	14.0			
FM (30°-60°)	1235.8	65.2			
FH (60°-80°)	275.6	14.5			G0/660
FVH (80°-90°)	1.1	0.1			G0/10
BL (0°-30°)	56.2	3.0	B0/110		
BM (30°-60°)	48.9	2.6	B0/220		
BH (60°-80°)	11.7	0.6	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: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	489.4	489.4	489.4	489.4	489.4	489.4	489.4	489.4	489.4	489.4	489.4
2.5°	570.5	567.8	572.0	567.1	558.9	551.9	542.8	539.6	525.0	511.3	498.0
5°	639.9	640.7	639.4	632.6	620.9	607.9	589.6	585.6	560.2	533.9	505.6
7.5°	657.0	656.5	659.3	661.9	659.9	653.5	633.5	629.5	597.9	558.6	517.3
10°	604.1	604.4	610.1	627.5	649.2	671.8	668.7	666.4	635.5	586.4	530.2
12.5°	529.2	532.2	538.1	563.1	599.8	651.0	682.8	685.0	670.0	617.0	545.4
15°	496.9	497.5	502.4	517.4	544.8	607.9	676.8	683.1	698.8	647.8	562.0
17.5°	496.0	496.9	499.0	505.6	523.4	574.1	657.5	668.5	720.5	680.8	581.7
20°	526.5	526.0	524.5	521.0	528.8	562.9	639.7	651.8	732.3	713.0	601.6
22.5°	581.7	581.1	574.6	559.8	553.5	573.1	630.9	642.0	739.4	741.7	618.0
25°	645.4	649.9	637.7	615.4	599.8	599.2	638.7	646.5	745.6	767.1	629.2
27.5°	715.2	716.6	706.2	681.1	658.6	641.0	661.2	667.1	752.4	789.8	635.5
30°	791.8	791.3	779.4	750.3	722.9	697.5	699.1	701.4	768.3	815.7	642.4
32.5°	887.5	889.6	868.5	828.8	796.0	760.8	748.7	749.0	796.9	849.1	653.0
35°	1017.5	1012.3	984.5	928.0	871.9	834.0	813.3	811.5	841.1	893.9	671.3
37.5°	1141.4	1141.9	1112.7	1050.5	979.8	920.0	890.7	885.8	903.3	956.1	701.7
40°	1227.4	1229.0	1216.9	1184.3	1109.3	1024.8	981.7	976.7	984.0	1034.8	741.6
42.5°	1272.9	1277.4	1280.8	1288.4	1231.6	1155.6	1089.4	1088.9	1081.3	1124.6	787.7
45°	1274.7	1281.5	1302.2	1354.2	1360.7	1305.0	1232.9	1222.0	1192.7	1220.6	829.0
47.5°	1204.2	1219.9	1264.0	1367.0	1435.0	1453.5	1382.1	1375.4	1293.1	1296.5	859.9
50°	1040.0	1056.4	1137.5	1301.4	1453.8	1571.4	1545.8	1532.0	1377.0	1346.7	874.8
52.5°	871.6	886.5	941.6	1145.3	1375.9	1608.5	1683.8	1667.4	1452.3	1364.2	868.7
55°	606.5	626.4	680.2	856.0	1196.5	1536.2	1729.4	1726.0	1519.5	1353.2	859.1
57.5°	297.3	317.1	370.7	527.8	886.3	1341.2	1659.6	1677.6	1559.7	1341.4	851.4
60°	124.2	132.3	150.8	231.6	495.9	1013.6	1502.1	1527.0	1535.1	1325.4	850.5
62.5°	72.1	73.4	75.3	96.0	192.9	581.1	1246.0	1281.5	1405.7	1304.2	837.7
65°	54.4	54.9	54.1	58.9	79.7	220.4	900.3	948.5	1173.3	1221.2	787.2
67.5°	44.7	44.7	42.6	43.6	50.0	82.6	497.0	564.4	868.2	1003.7	650.1
70°	35.6	36.4	35.5	34.2	35.8	45.7	176.8	219.3	505.6	592.7	379.1
72.5°	27.0	27.0	28.7	27.7	26.6	28.7	61.7	69.3	202.9	247.1	136.8
75°	20.9	21.5	22.7	21.7	20.1	17.0	29.6	31.4	61.2	57.5	30.6
77.5°	10.7	10.9	14.4	15.9	14.9	10.4	13.0	14.3	19.9	17.8	11.3
80°	6.5	6.8	8.1	12.5	9.9	5.5	5.3	5.7	9.4	8.1	4.7
82.5°	2.8	2.9	4.5	4.5	4.0	2.1	2.1	2.1	4.5	4.2	1.9
85°	0.0	0.0	0.8	0.6	0.6	0.8	0.8	0.8	1.1	1.6	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.5
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°	489.4	489.4	489.4	489.4	489.4	489.4	489.4	489.4	489.4	489.4	489.4
2.5°	489.4	479.0	465.1	452.5	435.5	425.9	412.6	401.8	392.6	389.6	388.3
5°	489.6	471.7	442.0	412.2	375.6	346.7	317.1	293.6	274.3	268.2	266.6
7.5°	492.8	466.6	418.3	364.2	303.0	252.5	207.3	166.8	148.0	141.7	140.4
10°	497.2	462.2	390.9	306.7	218.8	153.8	109.0	83.1	70.8	64.0	64.9
12.5°	502.8	458.6	360.7	244.5	144.8	84.5	59.9	50.2	47.6	46.3	45.7
15°	510.5	454.4	323.1	182.8	88.7	54.4	46.2	43.6	42.6	41.9	41.8
17.5°	518.2	449.6	284.9	128.6	58.9	45.2	41.5	40.2	39.5	39.0	38.9
20°	526.5	441.3	240.0	88.6	46.5	40.6	38.2	36.8	36.0	35.1	35.0
22.5°	530.1	428.0	197.1	62.0	41.3	37.4	34.3	32.6	31.6	30.9	30.9
25°	526.6	406.5	152.7	47.1	37.6	33.8	30.8	28.8	28.0	27.4	27.4
27.5°	517.6	378.8	111.4	39.0	33.5	30.1	27.2	25.4	24.8	24.5	24.5
30°	507.5	343.8	78.5	33.5	29.0	26.2	23.8	22.7	22.5	22.2	22.2
32.5°	499.0	311.1	54.1	29.5	25.6	22.8	21.2	20.7	20.9	20.6	20.7
35°	494.3	279.0	40.2	26.2	22.8	20.2	19.4	19.4	19.4	19.3	19.3
37.5°	496.2	247.5	32.7	24.0	20.4	18.5	17.7	18.0	18.3	18.3	18.3
40°	505.9	219.4	29.0	21.9	18.3	16.8	16.2	16.7	17.2	17.5	17.5
42.5°	518.2	196.8	26.2	20.1	16.8	15.2	14.9	15.4	15.9	16.2	16.2
45°	526.0	173.9	23.5	17.8	15.4	13.4	13.4	14.1	13.9	14.1	14.1
47.5°	529.6	155.8	20.7	15.4	13.1	11.7	11.8	12.1	11.8	12.1	12.1
50°	520.8	137.5	18.3	12.8	10.9	10.2	10.5	10.4	10.4	11.0	11.0
52.5°	504.8	123.9	16.2	10.9	9.2	9.1	9.4	8.7	8.9	8.9	8.7
55°	493.0	116.1	14.4	9.4	7.9	8.1	7.9	6.8	6.2	5.5	5.3
57.5°	487.1	113.0	13.1	8.4	7.1	7.1	6.5	4.7	3.6	2.8	2.4
60°	485.8	109.3	11.8	7.3	6.3	6.0	4.7	2.8	1.8	1.3	1.1
62.5°	473.5	100.2	10.7	5.8	5.5	4.9	2.9	1.6	1.0	0.6	0.5
65°	433.2	82.4	9.6	4.5	4.2	3.6	1.8	1.0	0.5	0.2	0.0
67.5°	344.6	58.5	8.4	3.4	2.9	2.3	1.1	0.6	0.2	0.0	0.0
70°	198.7	31.6	7.0	2.4	1.9	1.5	0.8	0.3	0.0	0.0	0.0
72.5°	66.4	14.7	5.3	1.6	1.5	1.1	0.5	0.2	0.0	0.0	0.0
75°	14.6	8.7	3.6	1.1	1.0	0.8	0.3	0.0	0.0	0.0	0.0
77.5°	5.5	6.2	1.8	0.8	0.6	0.5	0.2	0.0	0.0	0.0	0.0
80°	2.1	4.0	0.8	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	1.6	0.5	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.6	0.8	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.2	0.2	0.2	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)