

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: P628841

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628841
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2384.8 lumens
Efficiency: N/A
Efficacy: 121.1 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

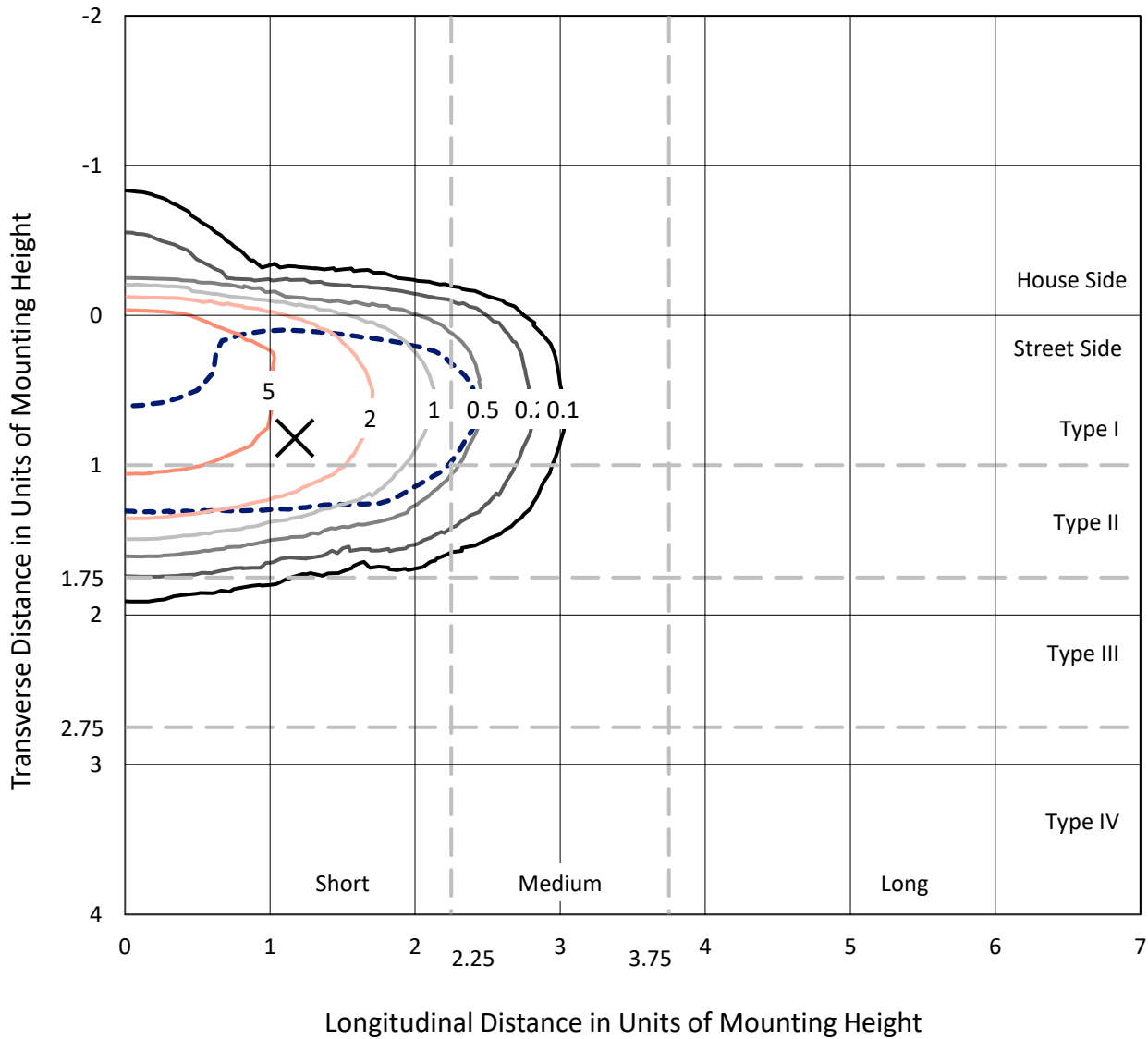
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

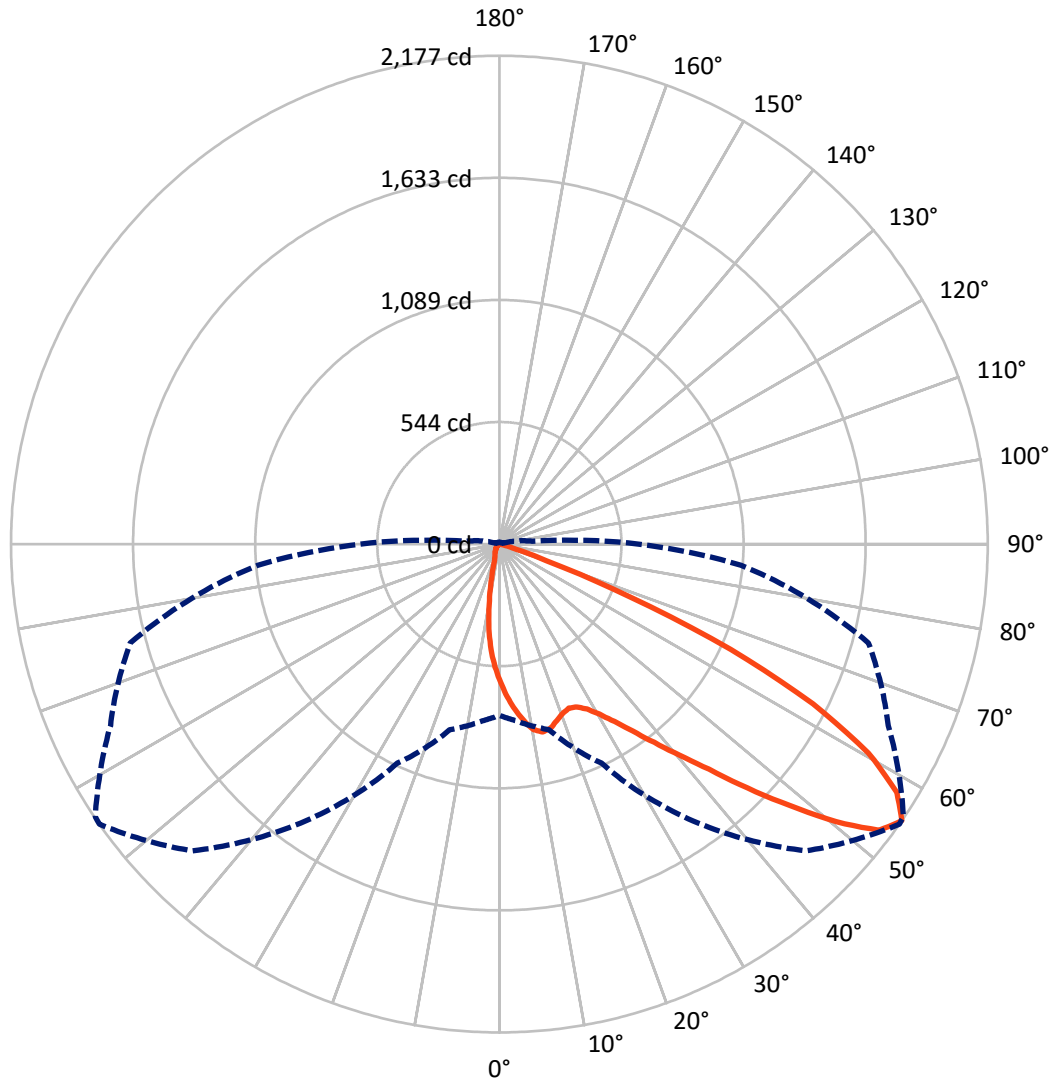
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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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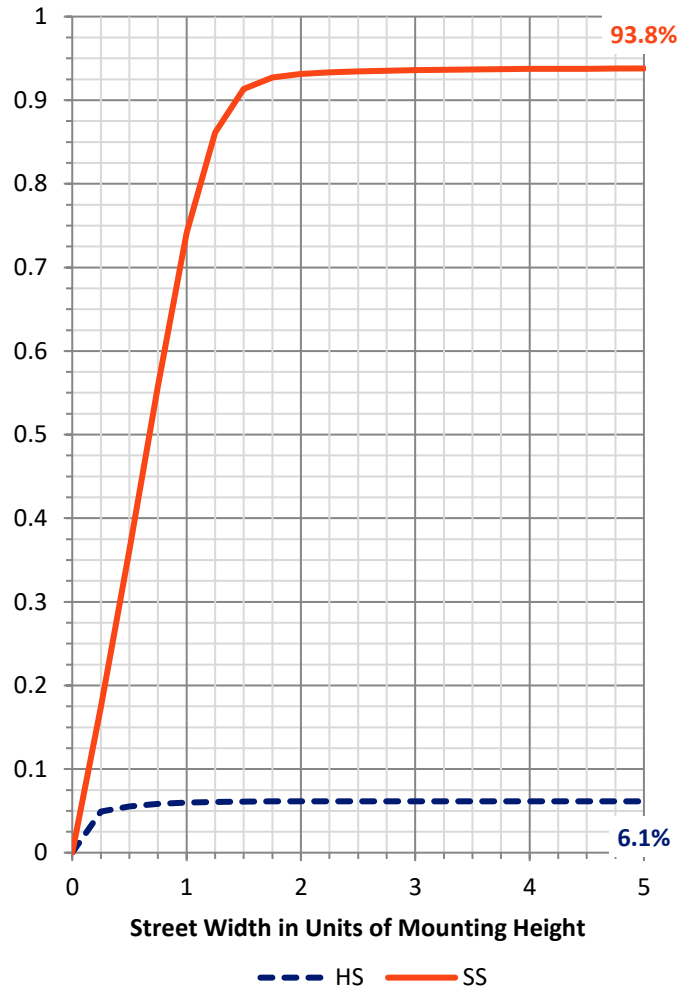
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	147.1	0.0	147.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	2237.6	0.0	2237.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	2384.8	0.0	2384.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	2.3
10°-20°	131.3	5.5
20°-30°	218.6	9.2
30°-40°	372.5	15.6
40°-50°	608.1	25.5
50°-60°	636.6	26.7
60°-70°	321.1	13.5
70°-80°	40.6	1.7
80°-90°	1.5	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°	2384.8	100.0
0°-180°	2384.8	100.0

Coefficient of Utilization



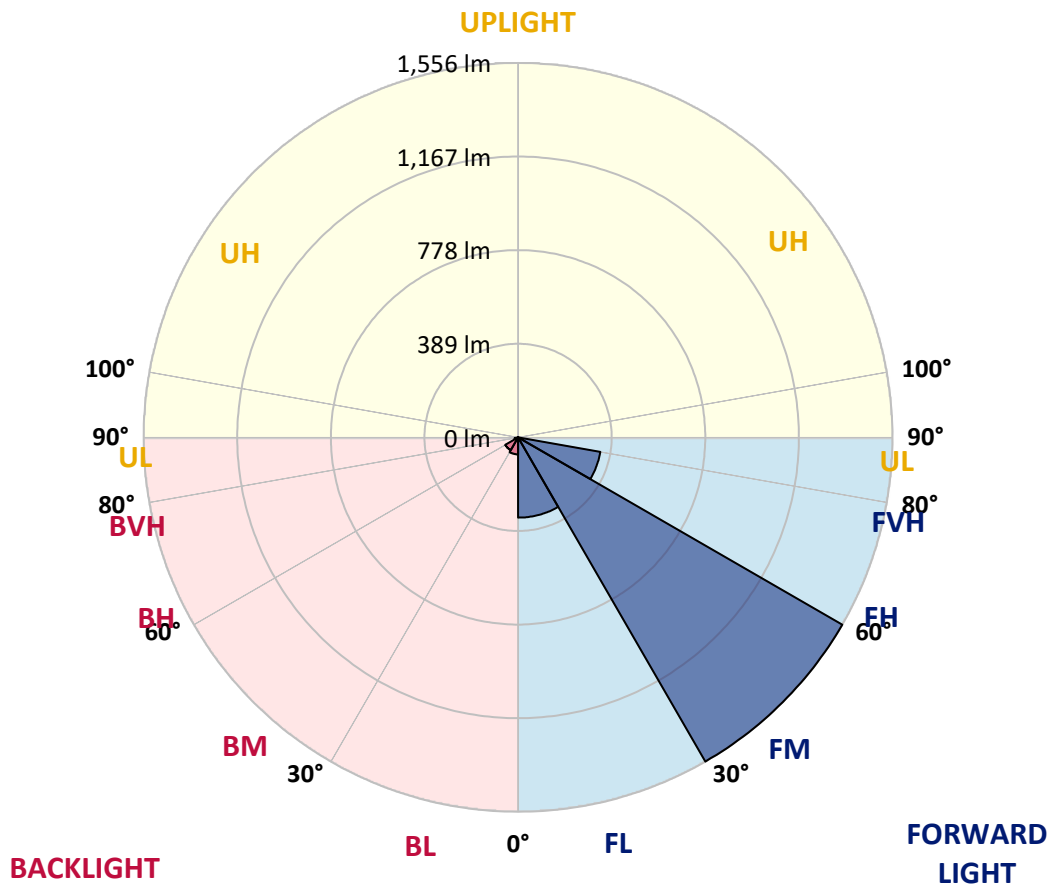
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.6	14.0			
FM (30°-60°)	1555.7	65.2			
FH (60°-80°)	346.9	14.5			G0/660
FVH (80°-90°)	1.4	0.1			G0/10
BL (0°-30°)	70.7	3.0	B0/110		
BM (30°-60°)	61.5	2.6	B0/220		
BH (60°-80°)	14.8	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°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	718.2	714.8	720.1	713.9	703.6	694.8	683.4	679.3	660.9	643.6	626.9
5°	805.5	806.5	804.9	796.3	781.6	765.3	742.3	737.2	705.2	672.2	636.5
7.5°	827.1	826.5	830.0	833.2	830.8	822.6	797.5	792.4	752.7	703.1	651.2
10°	760.4	760.8	768.0	790.0	817.3	845.6	841.8	838.9	800.0	738.2	667.5
12.5°	666.2	669.9	677.5	708.9	755.1	819.6	859.5	862.4	843.4	776.7	686.6
15°	625.5	626.3	632.4	651.4	685.8	765.3	852.0	859.9	879.7	815.5	707.4
17.5°	624.5	625.5	628.1	636.5	658.9	722.7	827.7	841.6	907.0	857.1	732.3
20°	662.8	662.2	660.3	655.8	665.6	708.6	805.3	820.6	921.9	897.6	757.4
22.5°	732.3	731.5	723.3	704.8	696.8	721.5	794.3	808.1	930.9	933.7	778.0
25°	812.4	818.1	802.8	774.7	755.1	754.3	804.1	813.8	938.6	965.7	792.0
27.5°	900.3	902.1	889.1	857.5	829.1	806.9	832.4	839.7	947.2	994.3	800.0
30°	996.7	996.1	981.2	944.5	910.1	878.1	880.1	883.0	967.2	1026.9	808.7
32.5°	1117.2	1119.9	1093.4	1043.4	1002.0	957.8	942.5	942.9	1003.2	1068.9	822.0
35°	1280.9	1274.4	1239.3	1168.2	1097.6	1049.9	1023.8	1021.6	1058.9	1125.4	845.0
37.5°	1436.9	1437.5	1400.8	1322.5	1233.4	1158.2	1121.3	1115.2	1137.2	1203.6	883.4
40°	1545.1	1547.2	1531.9	1490.9	1396.5	1290.1	1235.9	1229.5	1238.7	1302.7	933.5
42.5°	1602.4	1608.1	1612.4	1622.0	1550.4	1454.8	1371.4	1370.8	1361.2	1415.7	991.6
45°	1604.7	1613.2	1639.3	1704.8	1712.9	1642.8	1552.1	1538.4	1501.5	1536.6	1043.6
47.5°	1516.0	1535.7	1591.2	1720.9	1806.5	1829.7	1739.8	1731.5	1627.9	1632.2	1082.5
50°	1309.2	1329.8	1432.0	1638.3	1830.1	1978.1	1945.9	1928.6	1733.5	1695.4	1101.3
52.5°	1097.2	1116.0	1185.3	1441.8	1732.1	2024.8	2119.6	2099.0	1828.3	1717.4	1093.6
55°	763.5	788.6	856.3	1077.7	1506.2	1933.9	2177.1	2172.8	1912.9	1703.5	1081.5
57.5°	374.3	399.2	466.7	664.4	1115.8	1688.4	2089.3	2111.9	1963.5	1688.6	1071.7
60°	156.4	166.6	189.8	291.5	624.2	1276.0	1890.9	1922.3	1932.5	1668.5	1070.7
62.5°	90.7	92.4	94.8	120.9	242.8	731.5	1568.6	1613.2	1769.6	1641.8	1054.6
65°	68.5	69.1	68.1	74.2	100.3	277.5	1133.3	1194.1	1477.0	1537.4	991.0
67.5°	56.3	56.3	53.6	54.8	63.0	104.0	625.7	710.5	1092.9	1263.6	818.3
70°	44.9	45.9	44.6	43.0	45.1	57.5	222.6	276.0	636.5	746.2	477.3
72.5°	34.0	34.0	36.1	34.9	33.4	36.1	77.7	87.3	255.4	311.1	172.3
75°	26.3	27.1	28.5	27.3	25.3	21.4	37.3	39.6	77.1	72.4	38.5
77.5°	13.5	13.7	18.1	20.0	18.8	13.0	16.3	17.9	25.1	22.4	14.3
80°	8.2	8.6	10.2	15.7	12.4	6.9	6.7	7.1	11.8	10.2	5.9
82.5°	3.5	3.7	5.7	5.7	5.1	2.7	2.7	2.7	5.7	5.3	2.4
85°	0.0	0.0	1.0	0.8	0.8	1.0	1.0	1.0	1.4	2.0	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.6
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°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	616.1	603.0	585.5	569.6	548.2	536.2	519.5	505.8	494.2	490.5	488.9
5°	616.3	593.9	556.4	518.8	472.8	436.5	399.2	369.6	345.4	337.6	335.6
7.5°	620.4	587.3	526.6	458.5	381.4	317.8	261.0	210.0	186.3	178.4	176.8
10°	625.9	581.8	492.1	386.1	275.4	193.7	137.2	104.6	89.1	80.5	81.8
12.5°	633.0	577.4	454.0	307.8	182.3	106.4	75.4	63.2	59.9	58.3	57.5
15°	642.6	572.1	406.7	230.2	111.7	68.5	58.1	54.8	53.6	52.8	52.6
17.5°	652.4	565.9	358.6	161.9	74.2	56.9	52.2	50.6	49.7	49.1	48.9
20°	662.8	555.5	302.1	111.5	58.5	51.2	48.1	46.3	45.3	44.2	44.0
22.5°	667.3	538.8	248.1	78.1	52.0	47.1	43.2	41.0	39.8	38.9	38.9
25°	663.0	511.7	192.2	59.3	47.3	42.6	38.7	36.3	35.3	34.5	34.5
27.5°	651.6	476.8	140.3	49.1	42.2	37.9	34.3	32.0	31.2	30.8	30.8
30°	638.9	432.8	98.9	42.2	36.5	33.0	30.0	28.5	28.3	27.9	27.9
32.5°	628.1	391.6	68.1	37.1	32.2	28.7	26.7	26.1	26.3	25.9	26.1
35°	622.2	351.3	50.6	33.0	28.7	25.5	24.5	24.5	24.5	24.3	24.3
37.5°	624.7	311.5	41.2	30.2	25.7	23.2	22.2	22.6	23.0	23.0	23.0
40°	636.9	276.2	36.5	27.5	23.0	21.2	20.4	21.0	21.6	22.0	22.0
42.5°	652.4	247.7	33.0	25.3	21.2	19.2	18.8	19.4	20.0	20.4	20.4
45°	662.2	219.0	29.6	22.4	19.4	16.9	16.9	17.7	17.5	17.7	17.7
47.5°	666.7	196.1	26.1	19.4	16.5	14.7	14.9	15.3	14.9	15.3	15.3
50°	655.6	173.1	23.0	16.1	13.7	12.8	13.3	13.0	13.0	13.9	13.9
52.5°	635.5	156.0	20.4	13.7	11.6	11.4	11.8	11.0	11.2	11.2	11.0
55°	620.6	146.2	18.1	11.8	10.0	10.2	10.0	8.6	7.7	6.9	6.7
57.5°	613.2	142.3	16.5	10.6	9.0	9.0	8.2	5.9	4.5	3.5	3.1
60°	611.6	137.6	14.9	9.2	8.0	7.5	5.9	3.5	2.2	1.6	1.4
62.5°	596.1	126.2	13.5	7.3	6.9	6.1	3.7	2.0	1.2	0.8	0.6
65°	545.4	103.8	12.0	5.7	5.3	4.5	2.2	1.2	0.6	0.2	0.0
67.5°	433.8	73.6	10.6	4.3	3.7	2.9	1.4	0.8	0.2	0.0	0.0
70°	250.1	39.8	8.8	3.1	2.4	1.8	1.0	0.4	0.0	0.0	0.0
72.5°	83.6	18.6	6.7	2.0	1.8	1.4	0.6	0.2	0.0	0.0	0.0
75°	18.3	11.0	4.5	1.4	1.2	1.0	0.4	0.0	0.0	0.0	0.0
77.5°	6.9	7.7	2.2	1.0	0.8	0.6	0.2	0.0	0.0	0.0	0.0
80°	2.7	5.1	1.0	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	2.0	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.8	1.0	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	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)