

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: P628854

Luminaire Tested: GWS-SA1A-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2240.6 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

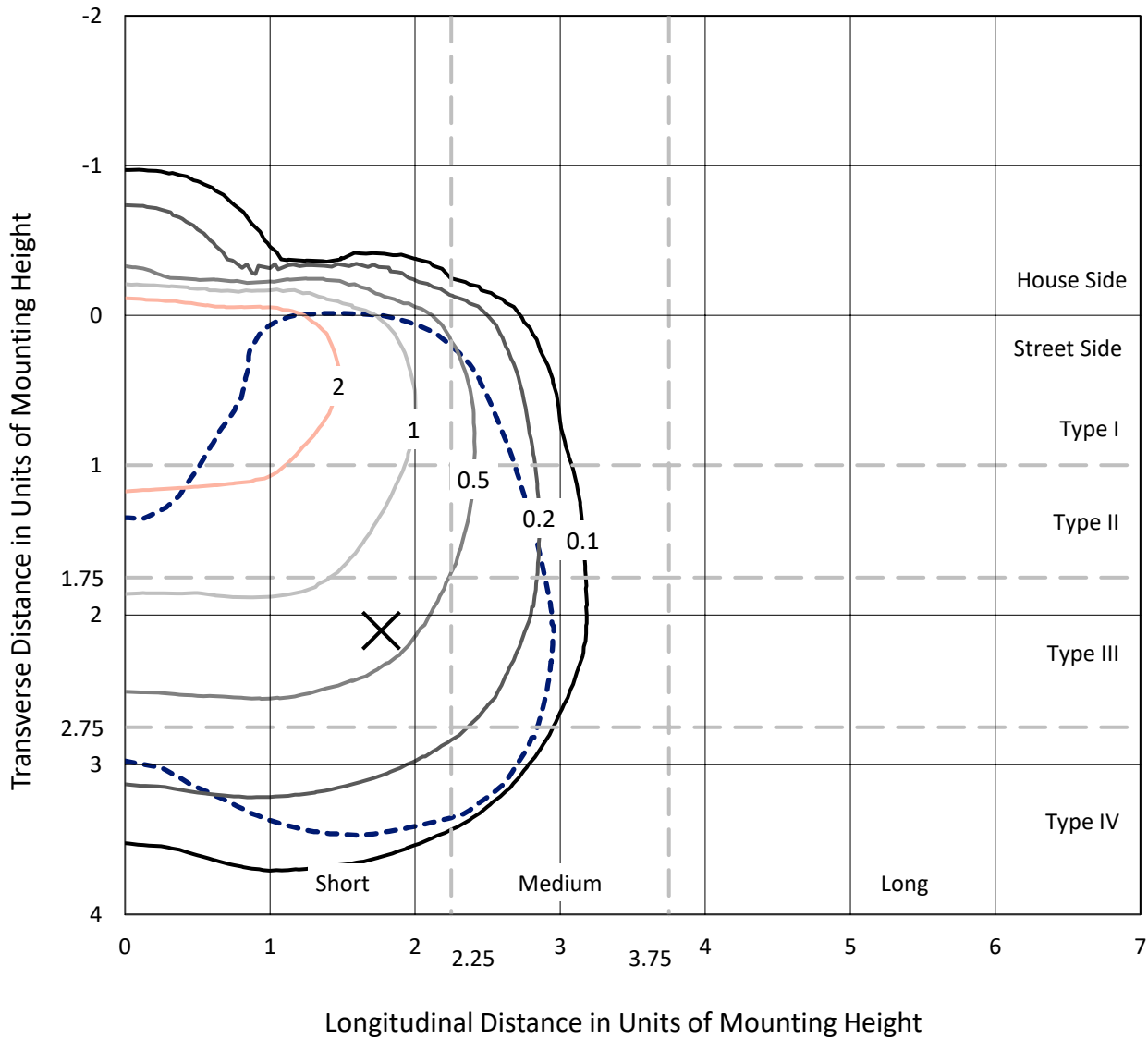
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

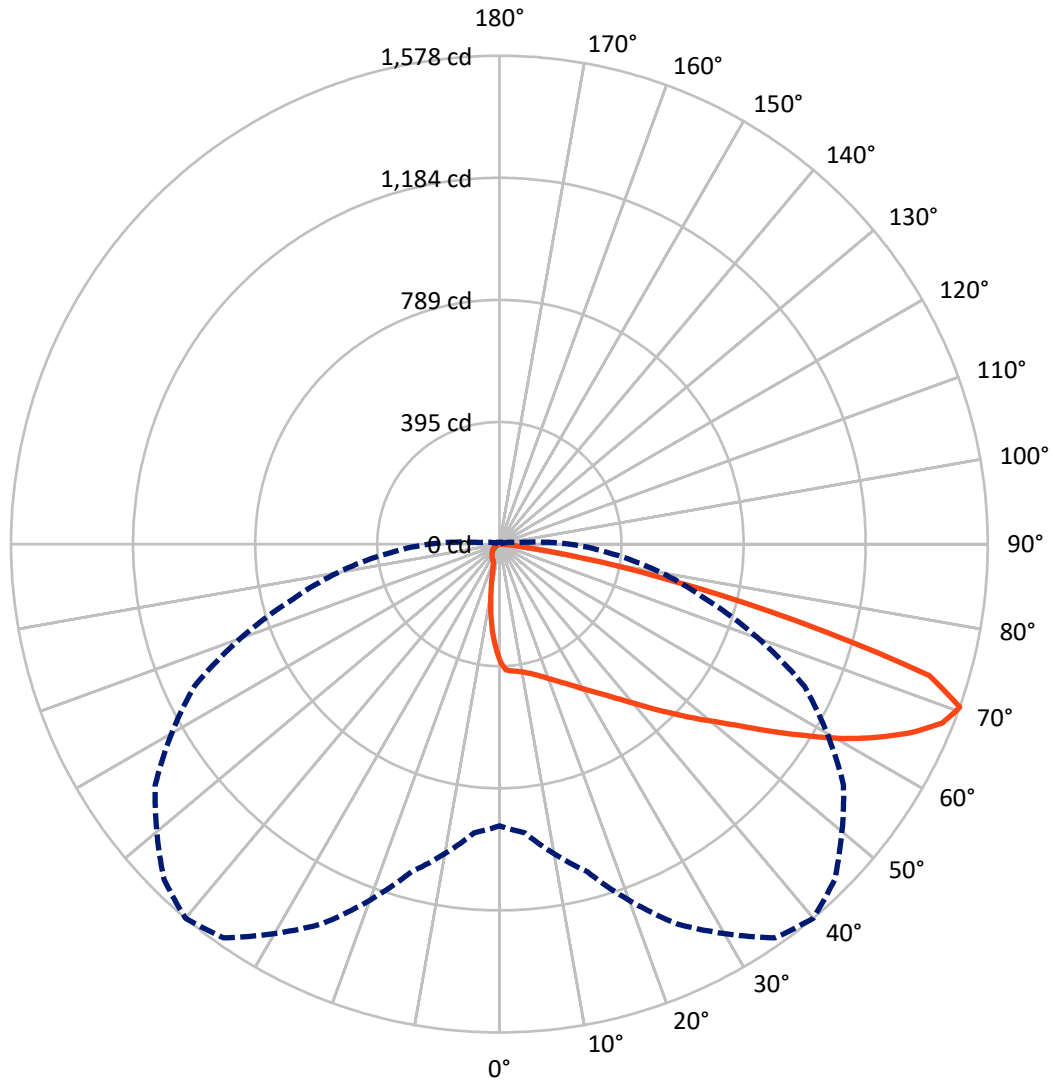
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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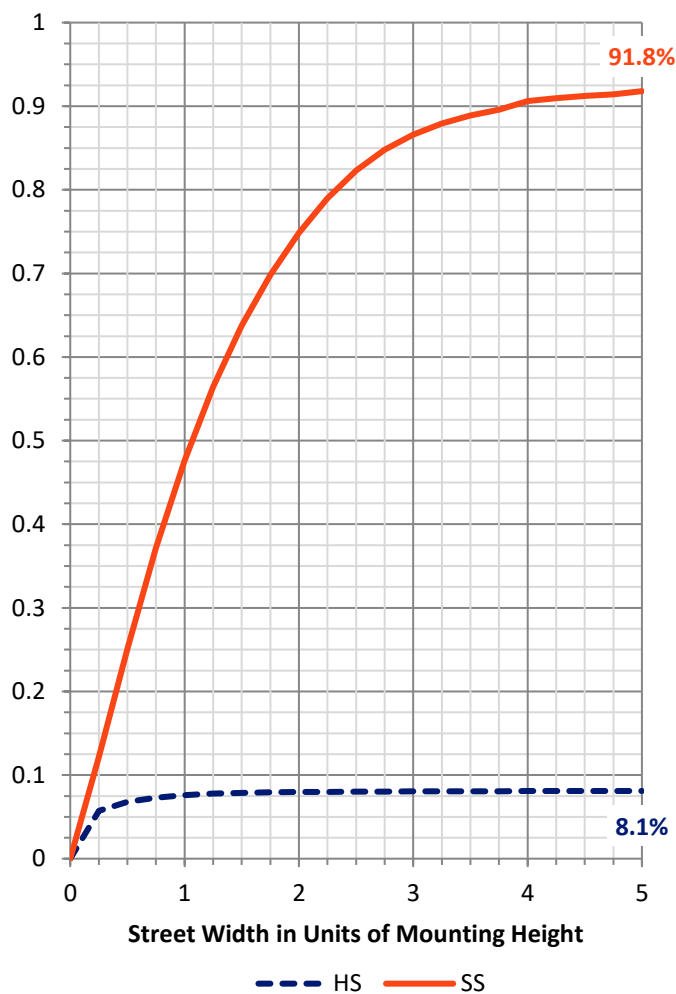
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	183.2	0.0	183.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	2057.4	0.0	2057.4
	% Fixture	91.8	0.0	91.8
Total	Lumens	2240.6	0.0	2240.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	1.4
10°-20°	81.5	3.6
20°-30°	136.4	6.1
30°-40°	214.2	9.6
40°-50°	338.9	15.1
50°-60°	494.3	22.1
60°-70°	612.8	27.3
70°-80°	310.1	13.8
80°-90°	20.2	0.9
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°	2240.6	100.0
0°-180°	2240.6	100.0

Coefficient of Utilization



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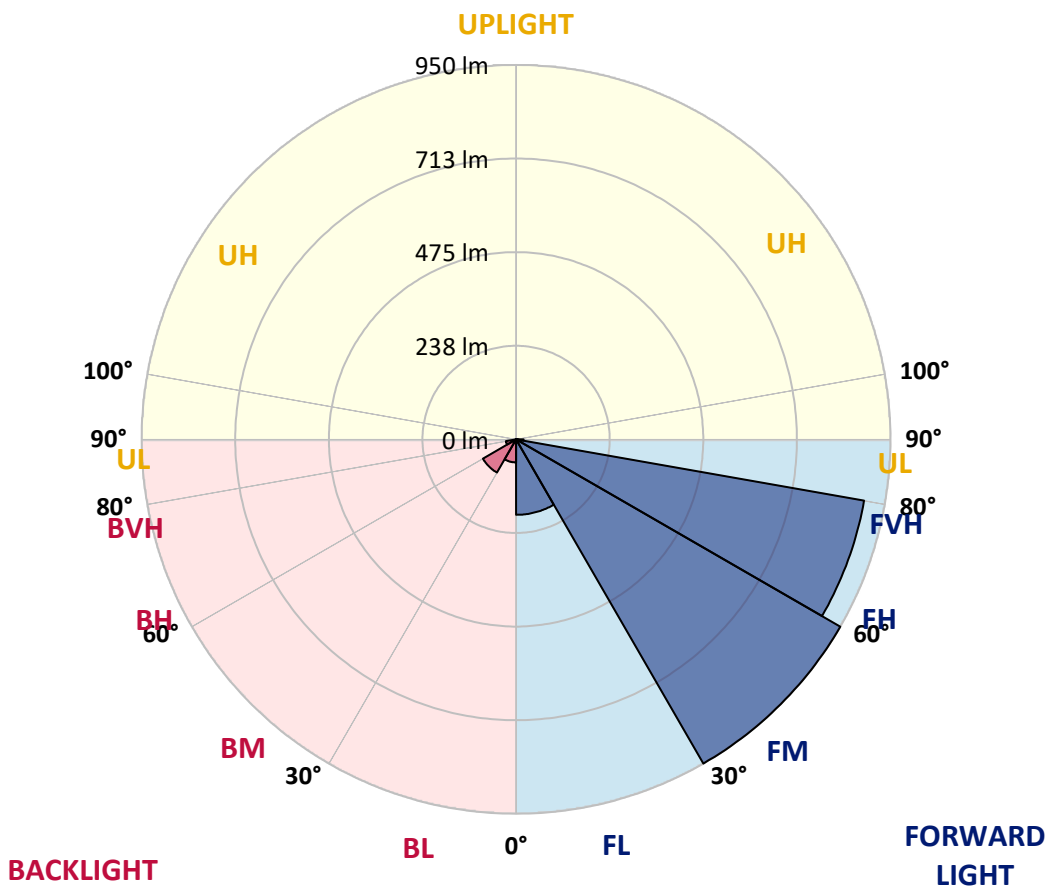
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.5	8.5			
FM (30°-60°)	950.2	42.4			
FH (60°-80°)	896.7	40.0			G1/1800
FVH (80°-90°)	18.9	0.8			G1/100
BL (0°-30°)	58.5	2.6	B0/110		
BM (30°-60°)	97.3	4.3	B0/220		
BH (60°-80°)	26.1	1.2	B0/110		G0/110
BVH (80°-90°)	1.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	380.2	380.2	380.2	380.2	380.2	380.2	380.2	380.2	380.2	380.2	380.2
2.5°	408.7	410.2	410.0	410.6	409.2	406.9	406.5	403.4	397.9	391.0	383.3
5°	417.1	418.7	417.5	416.9	414.2	411.8	411.2	407.9	401.6	392.2	378.8
7.5°	424.2	424.6	423.8	422.4	418.5	415.3	413.0	408.5	401.0	391.6	376.1
10°	425.5	425.3	425.7	425.9	423.4	420.6	418.7	412.6	403.0	393.0	376.3
12.5°	424.0	424.0	426.7	429.7	429.7	428.3	426.5	421.0	409.8	397.9	380.4
15°	425.9	426.5	431.6	437.3	439.1	437.7	436.9	431.2	419.5	406.5	387.7
17.5°	432.4	433.0	441.2	449.7	452.0	450.3	448.7	443.0	430.6	416.3	396.1
20°	442.0	443.6	454.0	465.0	467.0	465.0	461.7	453.8	441.4	426.9	404.1
22.5°	459.5	460.5	471.7	483.4	484.4	481.1	476.2	465.2	452.2	438.1	413.0
25°	482.7	484.2	495.4	506.6	503.9	499.1	492.3	479.9	465.0	451.4	424.4
27.5°	510.5	512.1	523.1	532.9	526.0	520.3	512.7	497.2	482.1	469.7	439.1
30°	540.4	541.9	551.7	560.4	551.2	544.5	535.5	519.6	504.4	495.0	459.9
32.5°	569.4	569.2	578.6	585.7	576.3	571.0	562.9	546.8	534.5	530.4	490.9
35°	596.3	596.3	604.0	611.2	604.5	601.6	594.1	581.2	574.3	579.2	532.3
37.5°	623.4	622.0	629.3	637.3	636.7	636.9	632.6	626.5	626.9	644.2	589.2
40°	645.8	645.2	653.8	664.2	672.3	678.9	676.2	678.5	691.3	723.7	661.9
42.5°	663.8	665.2	676.2	692.7	713.3	726.6	728.4	737.6	770.6	820.7	744.1
45°	684.4	684.6	699.9	725.1	758.0	779.0	786.3	809.9	856.8	921.5	834.2
47.5°	709.6	707.2	724.3	759.8	807.3	838.3	851.3	880.9	953.5	1019.7	907.6
50°	737.6	733.1	752.5	800.8	862.5	901.3	927.8	971.0	1049.3	1100.4	962.2
52.5°	770.0	765.7	787.7	847.9	928.8	975.9	1009.9	1053.6	1131.4	1162.0	994.8
55°	811.2	806.9	830.1	904.3	1007.1	1068.2	1103.9	1140.6	1207.9	1207.5	1018.5
57.5°	856.8	850.9	883.1	975.7	1104.7	1168.3	1204.6	1222.6	1266.0	1242.7	1034.4
60°	909.2	903.9	948.6	1060.7	1217.5	1276.4	1299.2	1291.9	1313.7	1263.5	1028.9
62.5°	956.5	954.1	1009.5	1150.8	1324.9	1374.6	1381.0	1349.0	1348.8	1263.9	991.8
65°	1005.7	1010.3	1092.7	1254.6	1432.9	1466.4	1455.6	1405.6	1362.8	1214.0	882.1
67.5°	1024.0	1037.7	1147.5	1348.3	1518.2	1544.3	1525.3	1434.0	1304.3	1046.0	671.7
70°	910.7	936.3	1095.8	1353.6	1553.4	1578.3	1532.8	1357.7	1087.4	692.9	368.0
72.5°	692.5	722.5	913.1	1108.4	1397.1	1453.7	1376.1	1106.2	700.9	303.6	123.5
75°	387.5	420.0	680.1	834.6	938.0	989.8	961.2	709.6	310.5	79.3	36.9
77.5°	131.1	141.9	316.4	516.4	619.1	572.6	484.8	352.5	114.2	30.2	19.6
80°	77.7	81.7	117.8	257.1	325.8	270.1	213.2	130.3	58.1	16.1	13.7
82.5°	23.2	27.5	65.0	95.4	127.6	79.5	67.3	74.4	30.2	8.8	11.4
85°	0.0	0.0	13.9	29.6	33.4	13.0	13.0	42.2	5.5	3.7	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.0	0.6	0.8	1.8
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°	380.2	380.2	380.2	380.2	380.2	380.2	380.2	380.2	380.2	380.2	380.2
2.5°	377.8	370.6	362.3	354.3	346.8	337.0	332.3	326.6	321.7	319.0	320.5
5°	370.2	359.0	341.9	324.5	307.0	290.5	275.6	265.6	256.7	252.0	253.0
7.5°	363.7	348.6	321.9	293.6	265.4	237.1	214.1	196.1	182.3	176.5	175.5
10°	360.8	341.9	304.2	263.4	220.2	182.0	149.4	129.7	115.6	108.7	109.9
12.5°	362.3	338.4	289.1	233.8	177.8	133.3	102.1	83.6	73.6	69.5	68.5
15°	366.3	337.6	275.6	203.7	137.2	93.2	70.5	63.0	61.0	60.5	60.5
17.5°	371.0	337.8	261.8	173.1	104.2	69.1	60.3	58.9	58.3	57.9	58.1
20°	375.7	337.8	245.9	142.1	78.3	59.7	57.5	56.5	55.9	55.7	55.7
22.5°	381.4	337.8	228.1	113.3	62.8	56.7	54.8	54.2	53.6	53.4	53.2
25°	388.4	338.0	208.6	88.7	57.1	54.0	52.6	52.0	51.4	51.0	51.0
27.5°	398.3	339.6	186.9	69.1	53.8	51.6	50.4	49.7	49.1	48.5	48.5
30°	412.8	343.7	162.7	57.1	50.8	48.9	47.7	47.3	46.7	46.1	45.9
32.5°	434.4	350.8	137.6	51.2	47.9	46.1	44.6	44.2	43.6	43.0	42.8
35°	464.6	363.9	113.1	47.5	44.2	42.4	41.6	41.4	40.6	40.0	40.0
37.5°	508.8	385.1	89.7	43.8	41.2	39.8	38.7	38.3	37.5	36.9	36.7
40°	562.9	412.6	69.7	41.0	38.3	36.9	35.9	35.3	34.2	33.4	33.0
42.5°	631.8	446.3	55.0	37.9	35.7	34.2	33.4	32.2	30.8	29.6	29.4
45°	703.5	480.9	45.5	35.1	33.2	32.0	31.0	29.4	27.3	25.9	25.5
47.5°	758.6	502.5	39.8	32.0	30.6	29.6	28.3	26.3	23.9	22.2	21.8
50°	797.9	505.8	35.5	29.2	28.3	27.3	25.5	23.0	20.4	18.8	18.3
52.5°	817.3	491.1	32.0	26.5	25.9	24.9	22.6	20.0	17.1	15.5	15.1
55°	826.0	463.4	28.7	24.3	23.4	22.2	19.8	16.9	14.1	12.6	12.2
57.5°	822.6	422.4	25.9	22.0	21.0	19.6	16.9	13.9	11.6	10.2	10.0
60°	796.9	364.9	23.0	19.8	18.6	16.9	14.3	11.4	9.4	8.4	8.2
62.5°	741.4	293.6	20.2	17.1	16.3	14.7	12.2	9.4	7.7	7.1	6.9
65°	627.9	207.5	17.3	14.5	14.1	12.4	10.2	7.7	6.7	6.3	6.1
67.5°	451.4	126.2	14.7	12.4	12.0	10.6	8.6	6.7	6.1	5.9	5.9
70°	226.9	59.7	11.6	10.2	10.2	8.8	7.3	6.1	5.9	5.7	5.7
72.5°	77.1	25.5	8.8	8.0	8.4	7.5	6.3	5.7	5.7	5.7	5.7
75°	26.3	13.5	6.1	5.7	6.1	6.1	5.5	5.5	5.7	5.7	5.7
77.5°	17.1	9.0	4.3	3.9	4.7	4.7	4.7	5.1	5.5	5.5	5.5
80°	14.1	4.9	2.9	2.7	3.5	3.5	3.9	4.7	5.1	5.1	5.1
82.5°	12.0	3.1	1.6	1.8	2.4	2.7	3.3	3.9	4.5	4.7	4.7
85°	8.2	1.6	1.2	1.4	1.6	2.0	2.7	3.3	3.7	4.1	4.1
87.5°	2.2	0.6	0.8	1.0	1.0	1.4	2.0	2.4	2.9	3.1	3.1
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)