

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: P628878

Luminaire Tested: GWS-SA1A-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2493.2 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

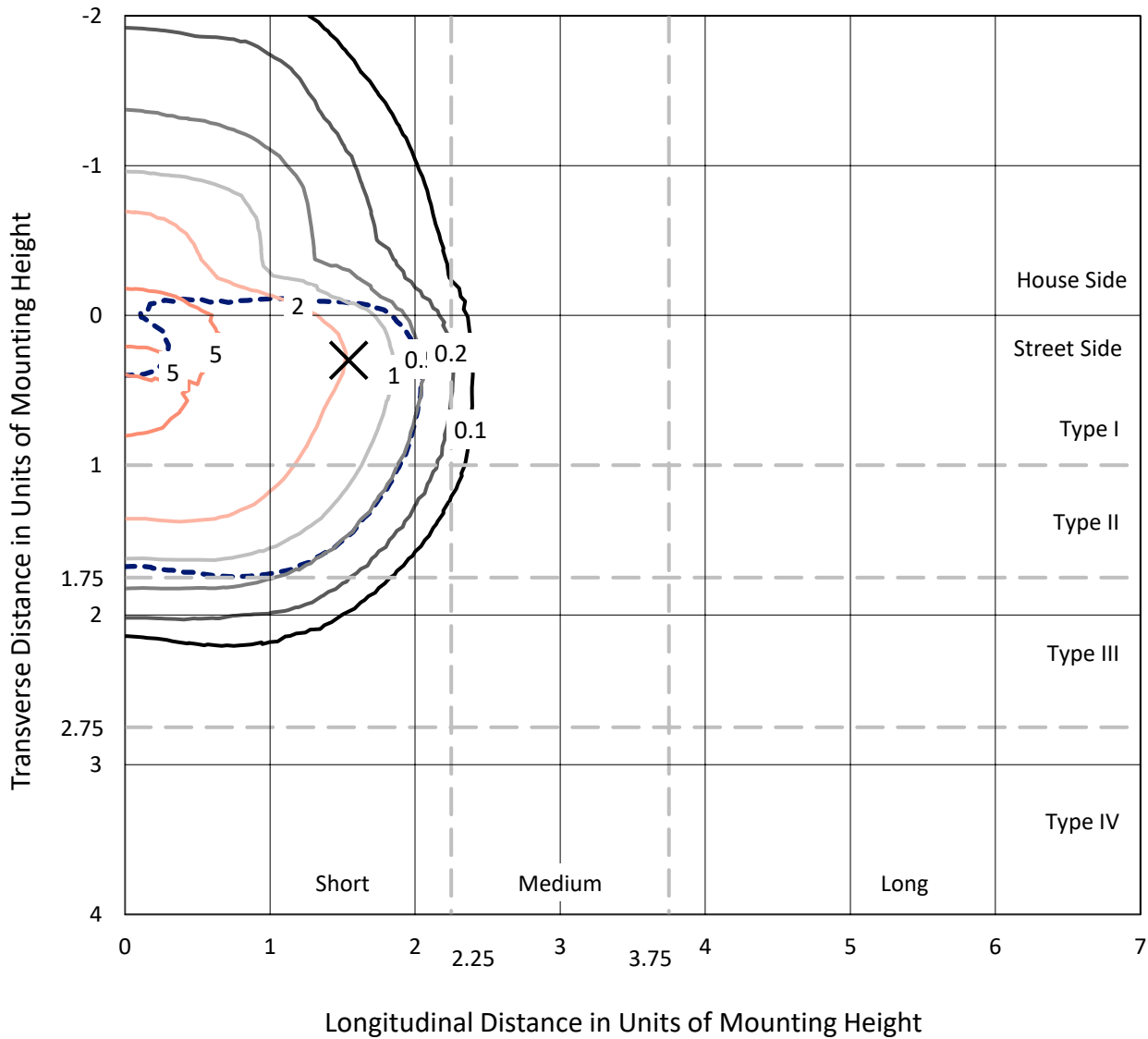
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

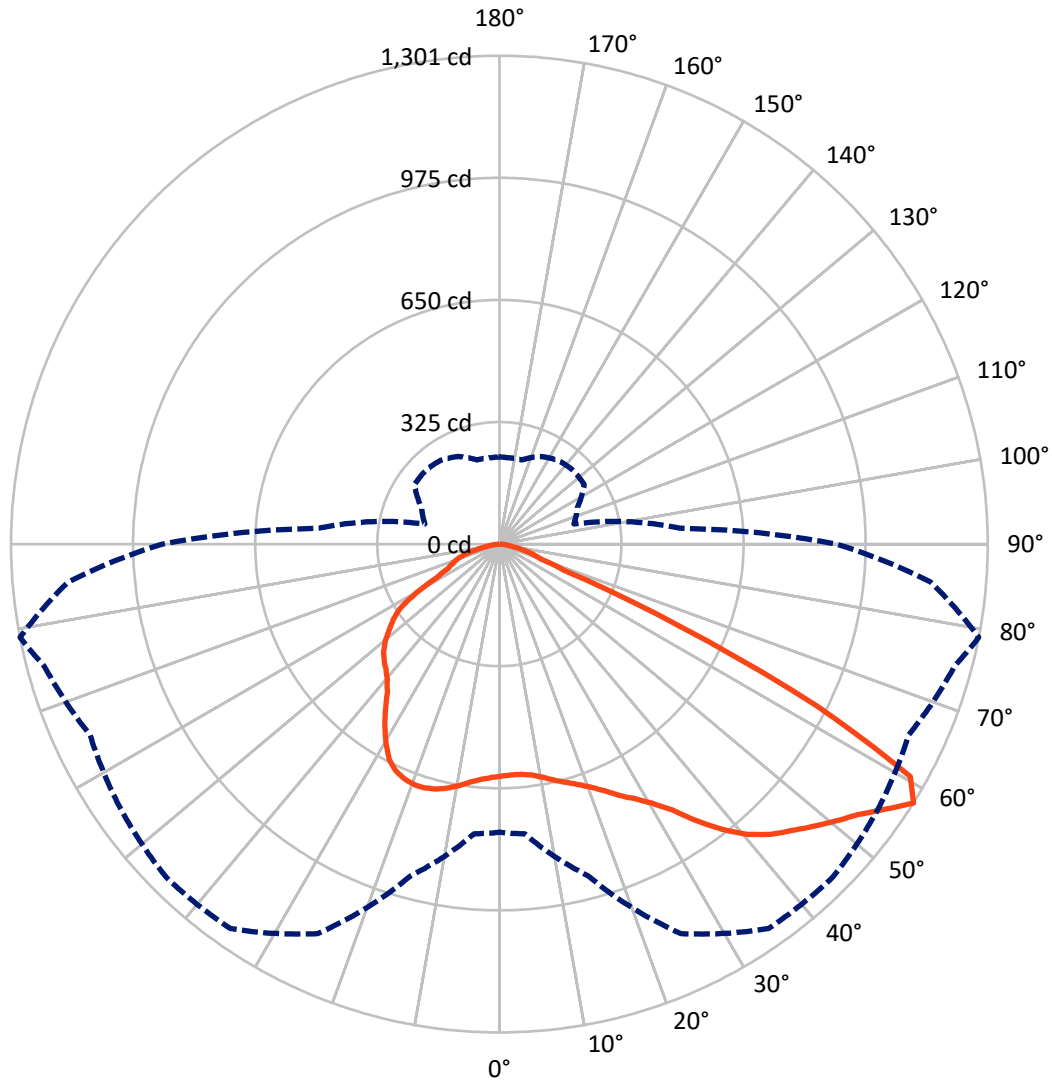
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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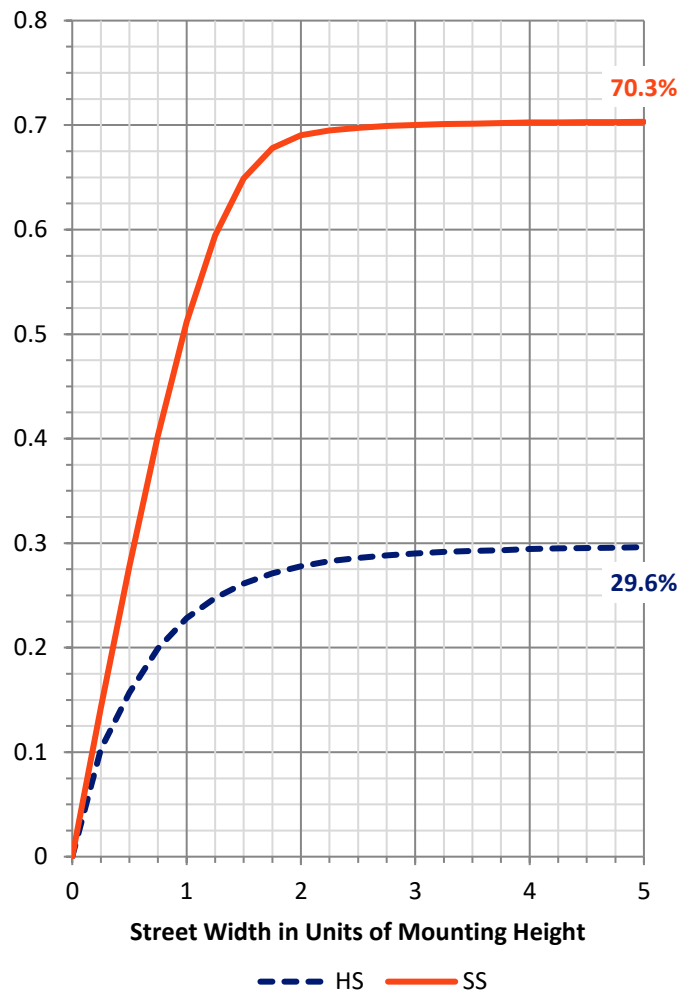
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	741.1	0.0	741.1
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	1752.1	0.0	1752.1
	% Fixture	70.3	0.0	70.3
Total	Lumens	2493.2	0.0	2493.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	2.3
10°-20°	159.0	6.4
20°-30°	269.5	10.8
30°-40°	412.6	16.5
40°-50°	550.1	22.1
50°-60°	635.3	25.5
60°-70°	330.1	13.2
70°-80°	70.2	2.8
80°-90°	9.1	0.4
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°	2493.2	100.0
0°-180°	2493.2	100.0

Coefficient of Utilization



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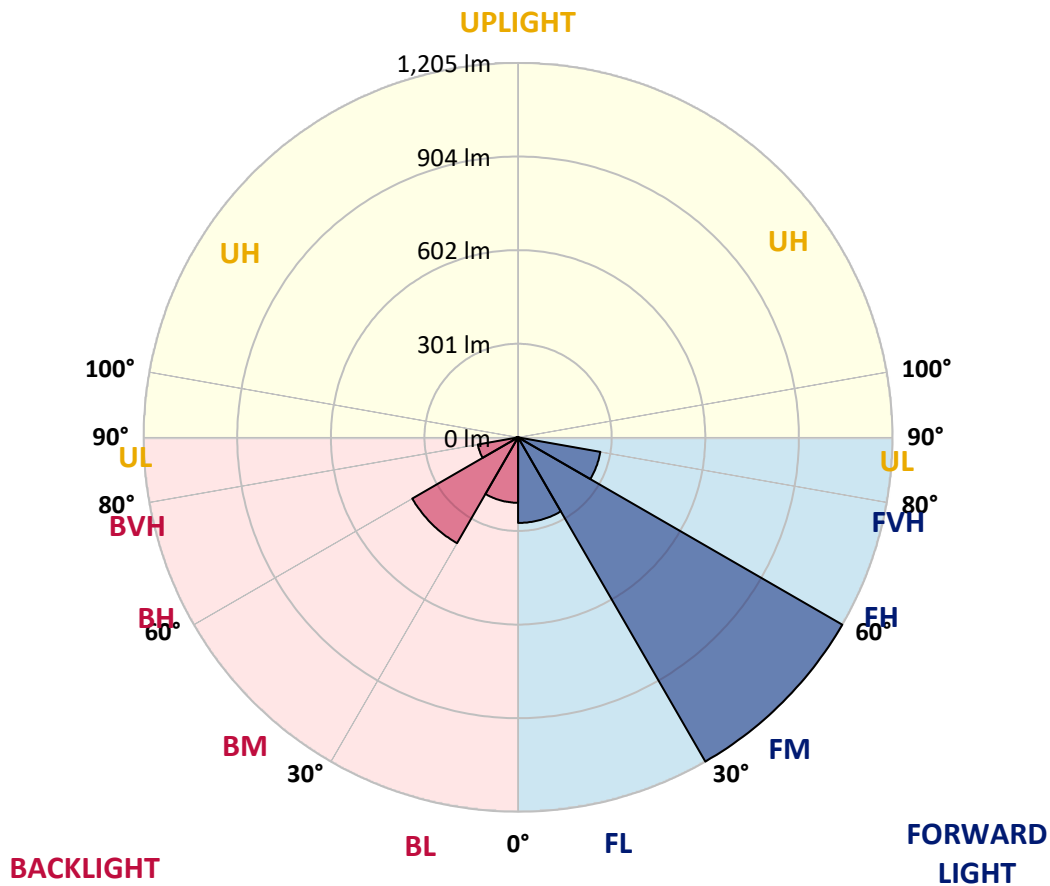
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.3	11.0			
FM (30°-60°)	1204.8	48.3			
FH (60°-80°)	268.8	10.8			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	210.5	8.4	B1/500		
BM (30°-60°)	393.2	15.8	B1/1000		
BH (60°-80°)	131.5	5.3	B1/500		G1/500
BVH (80°-90°)	5.9	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9
2.5°	589.7	588.5	588.9	590.6	596.7	601.2	605.8	610.1	614.2	615.4	616.4
5°	568.7	566.5	567.1	569.8	576.9	584.4	592.8	603.0	612.8	616.0	620.3
7.5°	553.9	553.5	554.5	558.6	566.1	573.2	584.0	598.5	615.4	620.9	628.5
10°	534.1	533.3	537.4	545.7	558.1	569.6	582.4	599.5	623.2	631.3	642.9
12.5°	518.4	518.0	522.3	533.9	549.8	567.9	585.7	604.8	633.6	644.8	659.1
15°	527.6	525.7	525.9	534.1	548.4	569.8	593.8	614.4	644.0	658.2	676.6
17.5°	554.3	551.0	548.6	550.0	558.1	580.4	606.3	627.2	656.0	672.7	695.1
20°	591.2	589.3	582.6	578.1	580.0	599.5	625.8	645.4	671.7	690.4	714.5
22.5°	640.7	636.2	627.0	619.9	614.4	629.7	654.0	670.9	693.5	713.1	738.1
25°	702.1	695.5	681.1	669.9	658.0	673.7	695.3	708.2	723.5	741.6	765.5
27.5°	764.6	759.1	743.0	728.0	713.3	723.1	748.7	756.1	754.5	767.7	788.1
30°	831.3	824.4	809.1	792.8	773.8	780.1	803.2	806.8	789.5	800.5	814.4
32.5°	901.6	894.9	881.7	862.7	841.3	843.7	850.1	853.5	837.0	843.3	853.9
35°	973.2	966.9	953.4	934.7	919.0	904.1	888.2	902.0	892.5	904.7	903.9
37.5°	1038.6	1032.3	1023.9	1009.5	982.6	953.2	916.5	933.6	948.5	964.0	961.4
40°	1082.9	1078.6	1080.6	1078.4	1043.7	985.6	930.4	949.1	989.7	1016.2	1014.8
42.5°	1121.0	1116.7	1128.5	1137.1	1096.3	1015.6	937.1	955.0	1016.0	1057.4	1055.3
45°	1137.9	1136.7	1156.2	1183.4	1144.4	1047.4	954.4	967.3	1036.0	1089.0	1081.2
47.5°	1117.7	1122.0	1160.5	1206.4	1184.4	1085.1	989.9	993.2	1062.1	1123.2	1101.4
50°	1077.6	1086.9	1138.9	1207.0	1213.5	1127.7	1039.0	1030.9	1097.1	1159.7	1112.0
52.5°	1019.1	1028.8	1113.6	1202.3	1230.2	1177.0	1104.5	1092.8	1141.4	1196.2	1113.8
55°	884.7	898.0	1055.7	1191.7	1246.5	1221.9	1178.3	1154.6	1198.4	1246.3	1132.0
57.5°	767.5	774.4	914.7	1144.6	1249.8	1254.9	1230.9	1202.7	1255.1	1300.6	1152.4
60°	563.2	564.9	691.1	947.1	1149.7	1235.7	1226.6	1184.8	1228.2	1257.1	1059.0
62.5°	318.2	318.4	419.1	632.1	858.8	1007.2	1012.9	976.0	939.5	948.1	737.1
65°	119.5	130.7	191.4	310.7	495.2	594.6	618.3	626.8	566.1	528.4	395.3
67.5°	79.9	82.6	111.7	159.8	220.4	254.4	284.6	285.4	208.7	186.1	155.7
70°	61.0	63.6	87.9	114.4	111.7	103.1	111.5	108.4	112.1	115.2	118.4
72.5°	45.5	48.1	68.1	80.7	67.1	66.0	74.8	83.2	90.9	94.2	99.3
75°	30.2	32.2	45.9	43.2	37.1	43.8	54.6	63.0	67.5	71.3	75.2
77.5°	19.2	20.6	24.5	19.8	20.6	25.7	31.8	39.3	43.6	47.5	49.5
80°	8.8	8.6	8.4	9.4	11.6	15.1	19.2	23.6	26.9	28.5	29.8
82.5°	3.5	3.9	4.3	5.1	6.3	8.2	10.8	13.9	16.5	16.9	17.9
85°	1.4	1.6	1.8	2.2	2.9	3.7	4.5	6.3	8.0	8.6	9.2
87.5°	0.0	0.0	0.0	0.0	0.2	0.4	0.6	1.0	1.8	2.0	2.2
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°	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9	617.9
2.5°	621.9	619.3	623.8	626.8	629.7	626.6	625.6	623.0	622.6	622.6	624.0
5°	627.7	625.8	630.5	632.3	632.1	625.4	621.3	616.0	613.4	613.4	613.8
7.5°	637.9	636.8	639.5	636.6	630.1	616.4	603.0	591.8	584.2	580.4	581.6
10°	654.8	653.5	651.3	640.7	621.9	593.6	566.1	545.7	533.5	526.5	527.0
12.5°	671.3	669.2	661.3	637.9	599.3	554.3	518.2	495.4	481.9	473.7	471.9
15°	689.4	684.1	667.0	623.2	562.4	506.2	468.4	443.8	429.3	424.4	424.2
17.5°	706.8	697.4	666.4	597.1	518.2	455.8	417.9	402.6	400.2	402.4	403.0
20°	724.3	709.2	659.7	561.0	465.6	405.7	386.1	392.4	401.6	407.7	409.1
22.5°	742.4	719.0	644.4	514.5	410.1	371.8	380.0	393.8	405.3	413.4	414.2
25°	762.8	728.2	621.5	457.6	365.7	362.4	378.6	393.2	405.5	414.8	416.5
27.5°	774.4	728.4	589.5	399.1	345.3	358.8	375.1	388.9	401.2	411.4	413.2
30°	785.8	722.9	538.8	351.6	339.4	354.5	369.2	382.0	393.6	403.6	405.9
32.5°	802.0	717.8	480.3	324.3	335.9	350.4	362.4	373.9	382.8	387.3	388.5
35°	821.9	711.2	418.1	312.5	333.7	347.2	357.8	363.9	352.3	349.8	352.5
37.5°	849.9	705.1	356.1	307.4	332.3	345.9	355.3	339.6	325.3	319.6	321.7
40°	880.0	701.7	314.1	303.3	332.9	347.2	345.1	321.9	301.3	289.3	288.9
42.5°	905.7	696.4	287.2	300.7	334.5	351.8	331.3	306.2	275.6	268.5	268.7
45°	923.0	682.9	273.0	297.8	335.9	352.9	324.7	284.6	262.8	258.3	258.1
47.5°	930.2	658.4	263.8	293.3	335.7	344.5	311.5	275.6	253.8	252.6	253.4
50°	925.5	618.3	254.4	284.6	330.9	335.7	296.2	267.7	247.7	254.4	259.3
52.5°	908.2	566.3	243.2	272.5	322.1	325.8	288.4	262.8	243.2	252.2	256.0
55°	903.7	524.1	228.9	256.9	309.0	308.0	280.3	260.3	240.1	236.7	237.3
57.5°	897.8	482.9	205.3	228.7	276.0	277.6	272.5	257.5	232.2	231.2	232.2
60°	779.9	370.2	183.1	197.3	226.7	235.4	263.8	252.2	219.3	215.1	214.9
62.5°	509.4	224.2	162.9	172.1	184.7	194.9	240.5	236.9	205.3	202.6	204.5
65°	274.0	159.8	148.2	153.7	160.6	168.4	199.4	211.0	185.5	176.1	176.3
67.5°	140.0	136.0	137.2	141.1	146.4	150.2	160.8	171.0	158.2	150.2	150.0
70°	119.9	123.1	125.0	127.2	130.7	130.1	131.1	132.9	131.9	128.0	127.8
72.5°	102.1	107.2	107.6	108.0	109.3	106.4	104.6	101.5	101.7	102.3	102.5
75°	77.7	82.6	83.8	83.2	84.4	80.7	78.3	75.2	71.6	70.9	71.3
77.5°	50.6	54.4	56.3	55.9	56.5	53.6	52.4	49.1	44.8	43.2	43.2
80°	30.6	32.8	34.2	34.7	35.3	33.2	31.2	28.3	26.5	24.7	24.7
82.5°	18.6	20.0	21.0	21.0	21.6	19.4	17.7	15.7	14.9	13.3	13.3
85°	9.4	10.4	10.8	10.6	10.2	8.4	7.7	6.7	6.3	5.5	5.5
87.5°	2.2	2.9	2.9	2.0	2.0	1.0	0.6	0.2	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)