

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: P628815

Luminaire Tested: GWS-SA1A-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.5 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

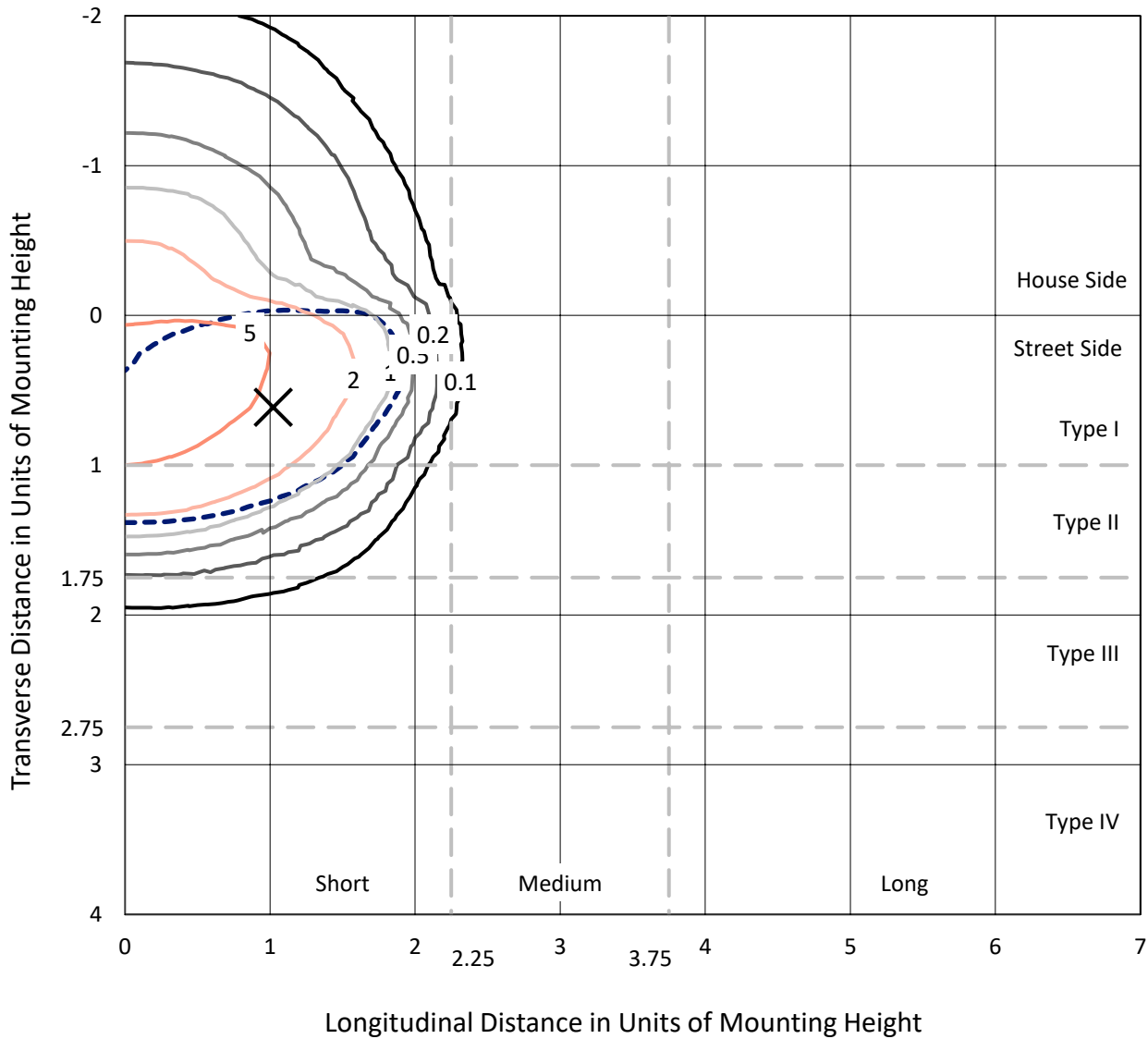
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

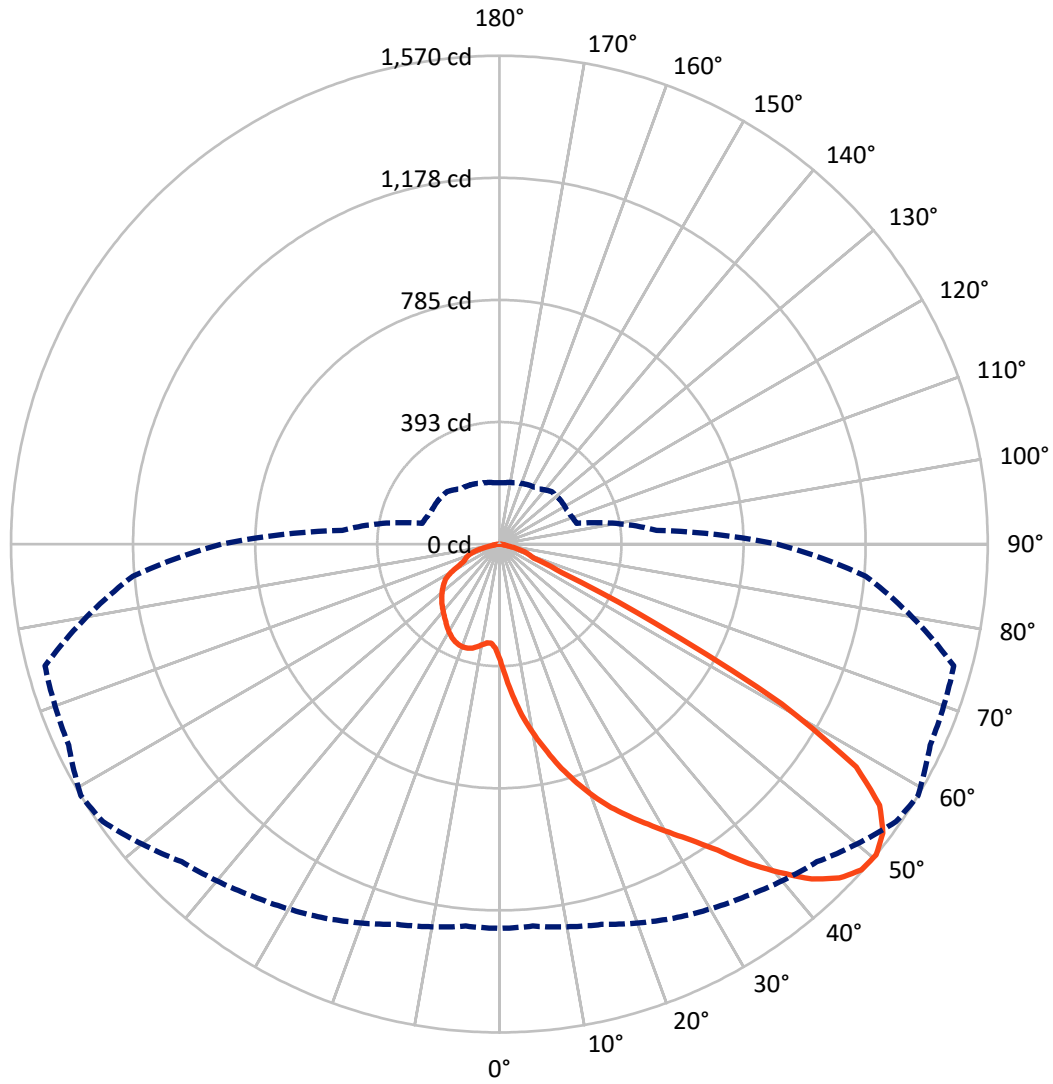
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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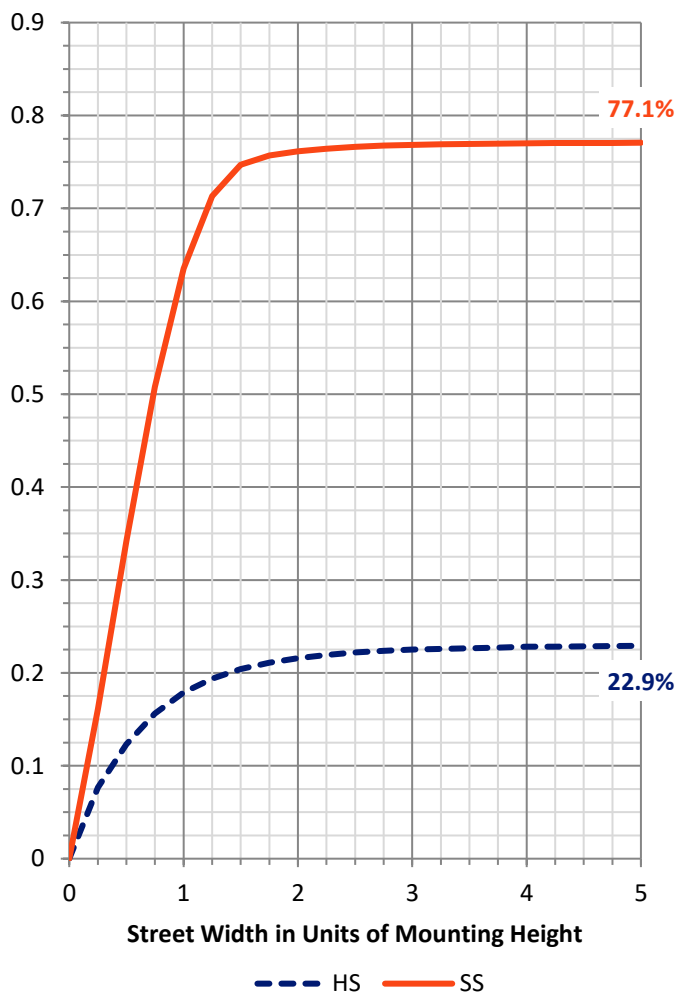
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	567.8	0.0	567.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	1900.7	0.0	1900.7
	% Fixture	77.0	0.0	77.0
Total	Lumens	2468.5	0.0	2468.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	1.7
10°-20°	152.3	6.2
20°-30°	288.4	11.7
30°-40°	478.3	19.4
40°-50°	653.3	26.5
50°-60°	593.1	24.0
60°-70°	197.5	8.0
70°-80°	57.6	2.3
80°-90°	6.0	0.2
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°	2468.5	100.0
0°-180°	2468.5	100.0

Coefficient of Utilization



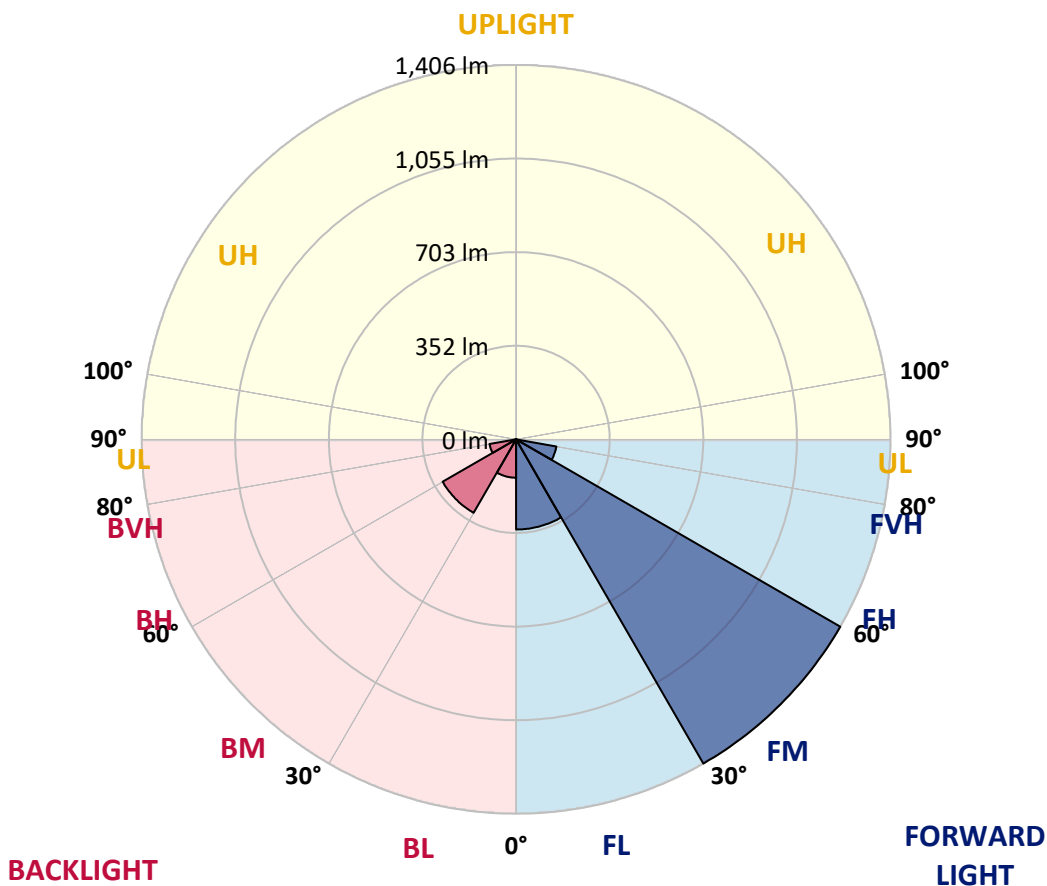
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.5	13.7			
FM (30°-60°)	1406.1	57.0			
FH (60°-80°)	153.8	6.2			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	144.2	5.8	B1/500		
BM (30°-60°)	318.6	12.9	B1/1000		
BH (60°-80°)	101.3	4.1	B0/110		G0/110
BVH (80°-90°)	3.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
2.5°	484.6	488.2	482.6	483.0	468.9	462.5	444.4	433.7	426.7	407.0	389.1
5°	582.3	578.1	573.7	571.0	558.8	541.5	519.0	501.1	484.6	446.0	408.8
7.5°	642.2	640.0	637.0	635.4	623.3	605.2	582.7	567.4	543.5	491.2	432.7
10°	693.1	690.5	688.7	689.9	680.0	668.4	643.8	626.3	599.4	539.1	461.7
12.5°	732.5	733.9	734.5	741.0	736.7	729.7	704.4	685.9	655.9	589.5	495.6
15°	763.7	763.3	770.3	782.6	789.4	785.0	764.7	749.2	712.6	639.2	532.2
17.5°	770.9	771.3	782.4	803.9	826.2	837.1	825.6	807.1	770.9	688.3	570.2
20°	776.7	777.5	789.0	813.5	846.1	876.5	878.3	865.0	833.8	741.4	608.8
22.5°	813.5	815.3	818.4	833.8	863.2	901.6	922.7	919.9	893.8	797.1	650.5
25°	910.3	904.8	890.1	885.7	897.0	928.2	964.1	969.6	956.7	858.4	695.3
27.5°	1029.7	1023.9	1002.1	979.2	954.9	965.8	1004.2	1020.4	1020.6	925.9	740.3
30°	1138.1	1133.4	1115.8	1083.0	1041.0	1025.3	1053.6	1075.5	1088.6	1004.0	791.6
32.5°	1230.8	1226.5	1202.6	1175.9	1134.9	1103.3	1113.5	1134.7	1165.2	1104.9	855.4
35°	1308.8	1304.6	1281.6	1254.7	1216.7	1197.8	1194.2	1208.6	1248.3	1210.3	928.6
37.5°	1372.1	1367.9	1344.0	1318.6	1289.7	1290.9	1296.3	1303.4	1326.1	1323.1	1006.8
40°	1413.1	1408.7	1391.6	1373.5	1355.2	1369.7	1396.7	1388.2	1400.3	1414.1	1078.8
42.5°	1431.4	1425.8	1416.0	1411.9	1406.3	1428.8	1480.7	1472.3	1457.8	1474.9	1132.2
45°	1413.1	1408.3	1408.1	1420.4	1433.4	1462.4	1538.8	1532.0	1495.4	1504.2	1164.2
47.5°	1357.0	1352.8	1364.3	1396.4	1428.6	1470.8	1564.7	1566.0	1522.1	1516.5	1184.9
50°	1235.8	1233.0	1266.2	1327.1	1382.6	1444.5	1556.5	1570.4	1528.6	1512.7	1182.3
52.5°	989.3	1002.3	1074.5	1176.3	1284.1	1398.3	1525.9	1544.0	1497.6	1487.5	1168.2
55°	677.2	683.2	755.4	904.0	1074.9	1298.1	1455.8	1483.7	1461.0	1483.3	1182.9
57.5°	350.7	355.5	412.4	544.3	729.1	1025.9	1260.9	1352.6	1387.2	1504.6	1228.6
60°	144.0	148.0	171.5	235.3	367.8	597.4	907.4	1043.4	1124.6	1374.1	1091.0
62.5°	104.6	106.6	117.8	140.3	192.6	292.8	513.5	563.6	620.7	861.2	692.7
65°	88.1	90.3	99.3	113.0	140.5	179.6	219.4	220.6	243.1	350.9	256.8
67.5°	73.8	75.8	83.8	95.5	113.6	127.5	117.8	118.0	117.6	127.3	123.1
70°	57.5	59.1	67.2	79.6	89.1	81.8	92.1	101.9	97.7	101.5	107.4
72.5°	42.0	43.8	50.9	60.3	57.9	58.3	74.6	84.7	82.2	86.5	91.9
75°	30.4	31.6	35.2	30.2	31.8	38.4	52.5	57.9	60.3	63.9	68.8
77.5°	9.9	9.9	11.1	13.9	17.3	21.3	26.7	29.0	32.6	36.6	40.0
80°	5.0	5.2	6.2	7.6	9.7	12.3	15.7	16.7	18.5	20.7	22.1
82.5°	2.4	2.6	3.0	3.8	5.0	6.4	8.6	9.7	10.9	12.3	13.3
85°	0.6	0.6	0.8	1.2	1.6	2.4	3.2	3.8	4.8	5.8	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	1.0	1.2	1.6
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°	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
2.5°	381.0	369.8	355.3	343.0	331.8	323.1	315.7	312.1	308.6	306.2	307.0
5°	391.5	372.2	345.2	326.5	315.1	309.2	305.2	303.2	302.8	301.2	300.6
7.5°	406.8	379.2	343.2	324.3	316.7	313.7	311.5	310.3	310.9	309.2	308.6
10°	425.7	390.9	348.3	331.6	324.9	322.7	320.3	318.7	317.9	315.5	315.1
12.5°	449.2	405.4	357.3	340.8	334.2	330.4	327.1	324.3	322.5	319.5	318.7
15°	474.5	421.4	368.0	349.9	342.0	336.4	331.2	326.9	323.7	319.7	319.1
17.5°	502.1	438.3	376.8	356.1	346.0	338.6	331.0	324.7	320.3	315.1	314.5
20°	530.8	455.4	383.4	359.1	346.2	336.2	325.9	317.7	312.1	306.8	306.4
22.5°	560.6	471.1	387.5	358.3	343.0	330.6	318.3	309.0	302.4	296.2	295.8
25°	590.6	486.2	388.5	355.1	336.6	322.1	309.9	299.0	291.6	284.5	283.7
27.5°	620.9	498.9	386.1	348.7	327.9	312.3	300.0	289.3	281.7	274.7	273.5
30°	653.3	509.7	380.8	340.2	317.9	301.8	289.7	281.7	274.5	267.4	266.2
32.5°	687.9	519.2	373.4	330.0	306.2	291.4	282.5	275.3	268.0	261.8	260.6
35°	729.1	525.4	362.3	316.7	295.4	283.7	277.7	269.2	260.4	253.6	252.9
37.5°	771.7	530.2	349.1	304.0	285.9	279.3	274.3	262.8	251.7	243.5	242.5
40°	812.9	534.3	332.6	292.2	277.3	276.1	269.2	255.0	235.9	226.6	225.8
42.5°	851.3	535.5	315.3	279.5	269.4	268.8	261.2	239.1	224.4	218.6	217.8
45°	877.7	534.5	297.4	267.6	261.6	258.4	250.3	227.6	218.6	213.3	212.3
47.5°	897.2	529.2	277.3	255.2	252.7	248.3	231.0	220.4	211.9	206.7	205.7
50°	893.8	507.5	257.0	243.1	242.1	238.3	217.0	211.3	203.9	198.3	197.5
52.5°	876.1	466.3	236.3	229.8	231.8	224.4	206.9	200.5	194.0	187.6	186.2
55°	880.5	436.5	220.6	217.0	220.6	203.7	195.6	188.8	182.8	176.5	175.3
57.5°	899.8	407.2	203.9	203.1	206.9	187.8	181.2	172.5	163.9	158.8	158.8
60°	755.6	296.8	174.5	176.5	185.2	174.9	169.1	160.3	150.8	146.4	146.4
62.5°	446.8	186.2	144.8	142.6	148.0	154.4	157.6	150.4	139.1	133.3	133.5
65°	196.9	135.5	127.7	125.9	124.3	128.7	137.5	138.1	126.3	119.4	119.6
67.5°	121.2	122.7	119.4	118.0	116.6	115.8	115.0	115.4	112.2	106.0	105.8
70°	109.4	113.2	111.0	109.8	108.0	106.6	101.7	93.9	88.5	86.9	88.7
72.5°	94.1	99.3	98.1	97.5	95.3	91.9	85.5	77.8	71.4	67.4	68.2
75°	71.0	75.2	75.8	76.0	73.6	70.4	63.7	57.3	51.7	47.5	48.5
77.5°	40.8	43.2	43.8	44.4	42.6	41.4	37.0	32.4	29.4	24.9	26.1
80°	22.7	23.7	23.7	23.9	22.9	21.5	18.5	15.9	14.5	12.5	12.7
82.5°	13.7	14.1	14.3	14.5	13.9	12.5	10.3	8.4	7.6	6.6	6.4
85°	6.6	7.0	7.0	7.2	6.2	5.4	4.2	3.2	2.8	2.0	2.2
87.5°	1.6	1.8	1.8	1.6	1.4	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)