

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: P628829

Luminaire Tested: GWS-SA1A-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1A-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2780.8 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

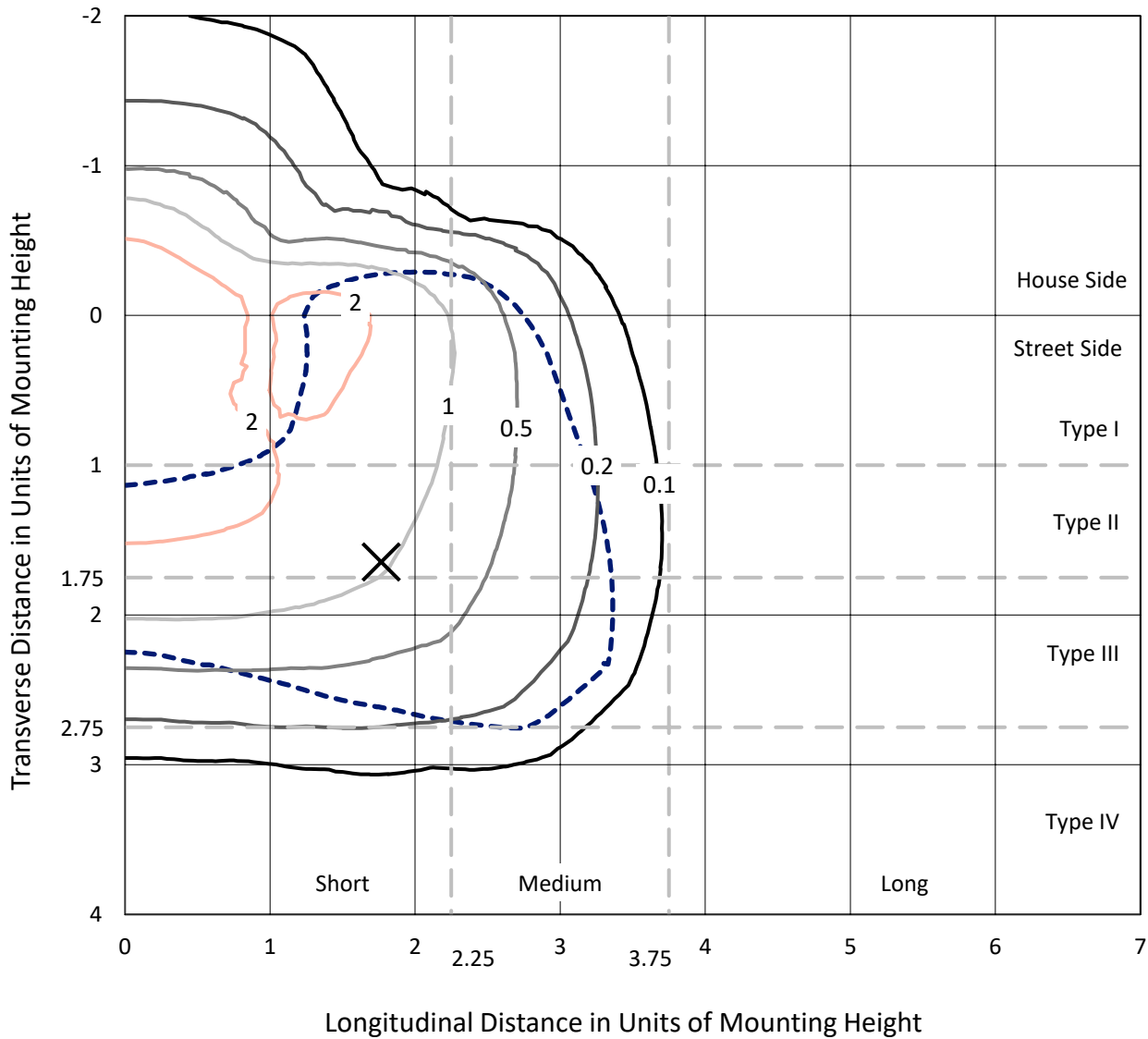
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

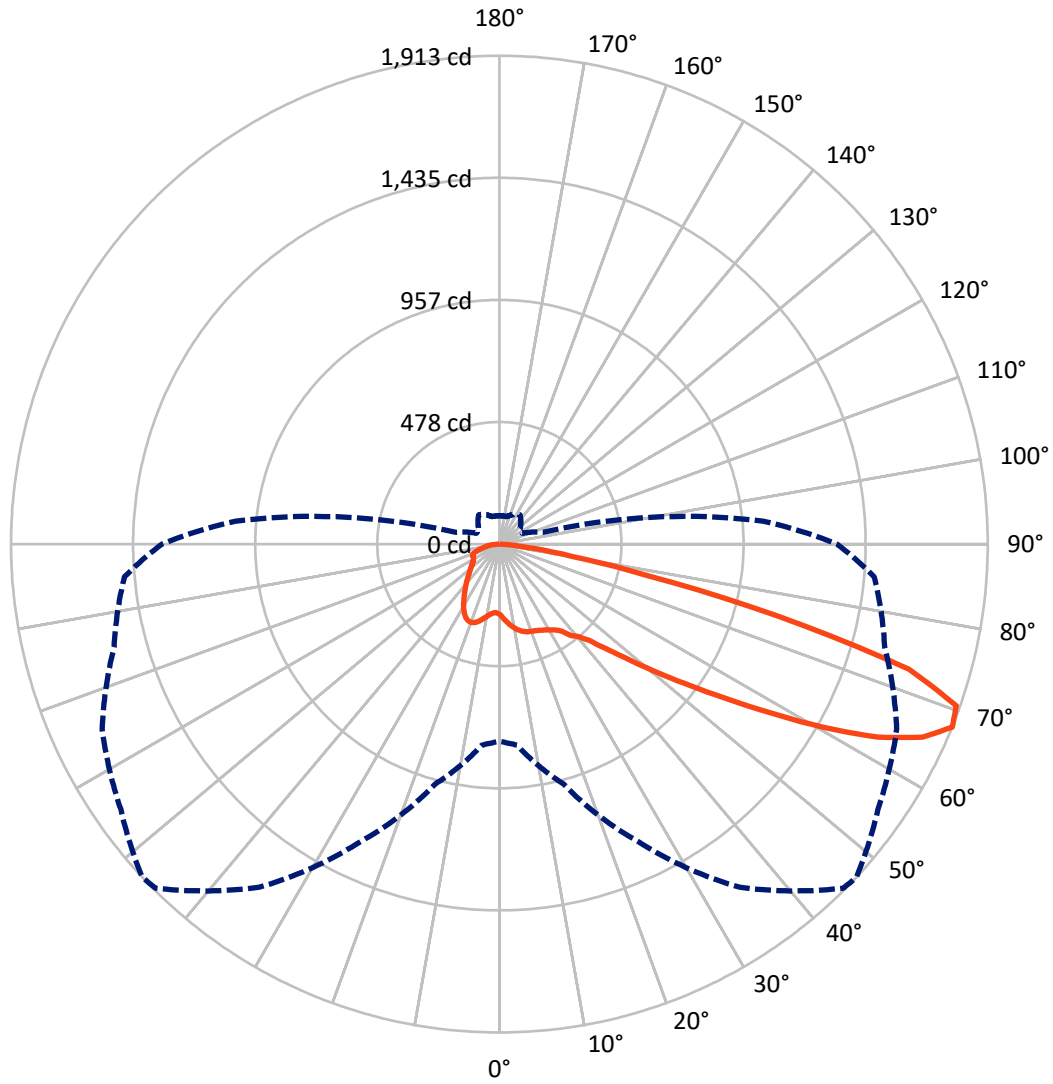
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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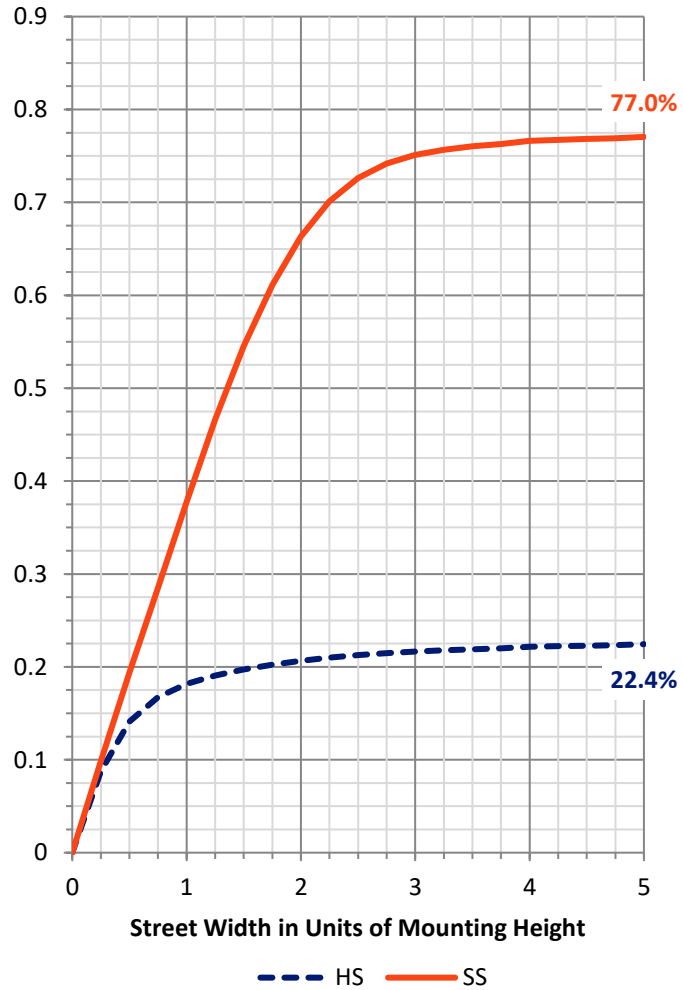
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.8	0.0	633.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	2147.0	0.0	2147.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	2780.8	0.0	2780.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	1.0
10°-20°	93.9	3.4
20°-30°	159.5	5.7
30°-40°	233.7	8.4
40°-50°	356.1	12.8
50°-60°	637.1	22.9
60°-70°	850.2	30.6
70°-80°	384.5	13.8
80°-90°	37.7	1.4
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°	2780.8	100.0
0°-180°	2780.8	100.0

Coefficient of Utilization



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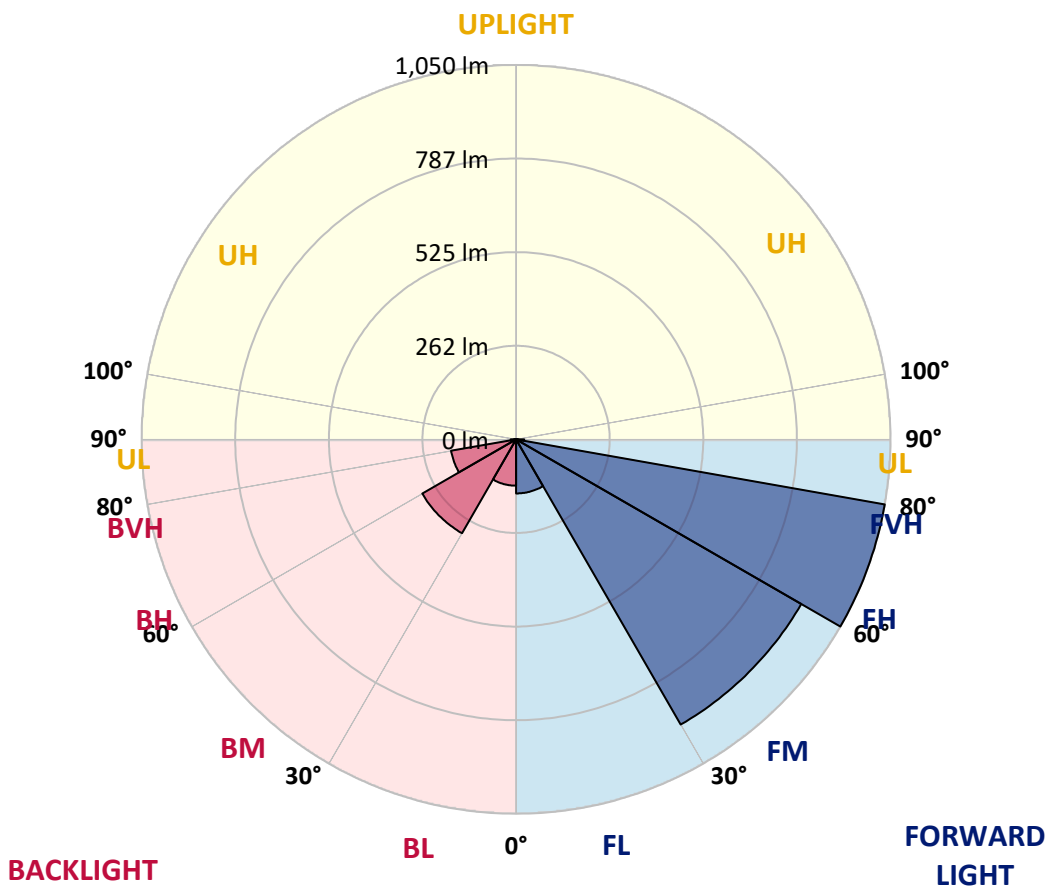
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	151.7	5.5			
FM (30°-60°)	923.3	33.2			
FH (60°-80°)	1049.7	37.7			G1/1800
FVH (80°-90°)	22.4	0.8			G1/100
BL (0°-30°)	129.9	4.7	B1/500		
BM (30°-60°)	303.7	10.9	B1/1000		
BH (60°-80°)	184.9	6.6	B1/500		G1/500
BVH (80°-90°)	15.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7
2.5°	294.0	295.0	294.8	293.2	292.2	290.3	290.5	287.7	283.5	280.7	277.5
5°	319.9	321.5	319.5	316.9	312.9	307.0	306.4	300.0	292.0	286.3	280.5
7.5°	342.4	343.4	341.0	336.6	330.8	322.9	321.5	313.9	303.8	295.0	286.5
10°	359.9	361.1	357.9	352.1	344.4	336.6	335.6	327.7	317.1	306.6	296.0
12.5°	374.8	375.2	371.8	363.9	355.7	347.6	346.6	339.4	329.6	318.9	307.2
15°	383.4	383.6	379.4	370.8	362.9	355.9	355.3	349.1	340.0	330.0	317.5
17.5°	382.8	383.2	380.2	372.6	365.7	361.5	360.9	356.9	349.9	340.8	328.3
20°	375.4	375.8	373.8	368.8	365.1	363.9	364.1	362.9	358.7	351.3	338.6
22.5°	369.6	370.2	368.4	364.7	364.3	367.2	367.8	368.4	366.3	359.7	347.4
25°	372.4	373.4	370.6	365.5	366.3	372.6	373.8	375.8	374.2	368.6	357.9
27.5°	391.9	392.5	385.2	375.0	372.6	379.2	381.0	384.2	383.0	377.8	369.6
30°	437.1	436.7	421.2	396.1	386.1	388.7	390.1	394.7	395.1	391.7	383.8
32.5°	500.9	498.9	474.9	434.9	405.8	399.3	400.9	407.2	411.8	408.2	397.5
35°	568.2	566.4	540.1	493.2	442.2	419.8	418.0	422.8	429.9	419.8	404.6
37.5°	632.4	629.5	602.6	544.7	487.0	455.8	453.2	448.4	444.2	424.9	413.2
40°	703.5	700.3	676.8	611.2	536.5	483.4	476.7	457.6	453.8	441.5	435.7
42.5°	779.5	779.5	760.0	695.5	596.2	522.8	514.1	485.4	489.4	481.4	474.5
45°	855.5	857.8	842.3	780.3	676.0	597.2	583.3	542.5	552.1	548.5	545.1
47.5°	920.3	924.5	921.5	867.0	773.7	687.7	666.5	624.1	644.8	653.5	663.1
50°	990.1	994.7	991.7	970.2	888.1	797.2	778.3	734.5	770.1	796.0	827.6
52.5°	1093.6	1100.2	1075.1	1066.9	1027.1	921.7	904.8	854.9	919.5	962.5	1032.9
55°	1181.1	1180.9	1172.0	1190.9	1176.3	1073.9	1055.2	1010.0	1092.4	1138.0	1241.0
57.5°	1221.7	1226.5	1256.9	1310.4	1339.7	1259.9	1242.0	1195.8	1278.0	1301.7	1412.9
60°	1242.6	1248.6	1307.3	1413.1	1492.1	1463.0	1455.9	1397.0	1443.3	1440.5	1557.9
62.5°	1213.2	1225.3	1319.6	1460.2	1600.9	1667.1	1664.8	1575.8	1583.8	1556.3	1647.8
65°	1078.5	1091.6	1239.6	1436.6	1663.0	1822.3	1822.9	1737.6	1691.8	1612.6	1632.7
67.5°	771.3	790.0	973.0	1285.4	1641.1	1906.1	1913.2	1811.0	1717.1	1562.7	1474.2
70°	420.4	434.1	577.5	934.4	1443.7	1886.0	1899.1	1775.6	1605.3	1351.8	1134.8
72.5°	191.0	195.4	268.6	512.7	986.2	1623.4	1678.1	1584.6	1318.4	998.5	721.6
75°	87.5	89.5	117.0	245.3	515.3	1086.4	1124.8	1180.3	917.5	630.6	376.2
77.5°	54.9	55.5	66.6	112.2	257.0	542.3	582.7	702.7	537.3	312.1	157.2
80°	32.4	33.0	41.4	60.7	120.6	248.1	286.5	277.9	252.5	134.7	71.6
82.5°	16.3	16.9	23.9	34.6	65.7	98.7	116.2	116.8	94.1	73.0	40.4
85°	5.8	6.0	7.8	13.7	27.9	32.6	36.4	44.4	46.0	42.4	19.5
87.5°	0.0	0.0	0.2	0.4	0.8	3.2	3.4	6.4	13.5	15.1	7.8
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°	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7	275.7
2.5°	276.5	273.5	272.4	271.4	269.8	269.2	268.0	266.8	266.8	265.6	265.0
5°	277.9	273.9	271.2	270.0	269.0	269.6	269.6	270.0	271.4	270.6	271.0
7.5°	282.9	278.3	274.7	273.7	273.7	276.1	277.7	279.7	282.3	282.7	282.7
10°	291.8	286.3	282.5	281.9	282.9	286.3	288.7	291.1	294.4	294.6	295.0
12.5°	301.4	296.0	292.2	293.0	294.0	298.4	301.0	303.0	306.2	306.2	306.0
15°	311.5	305.4	302.2	303.8	306.8	311.9	312.3	312.5	314.1	313.7	313.5
17.5°	321.9	315.5	313.1	315.5	318.7	321.1	319.1	316.3	315.7	314.9	314.5
20°	332.2	325.5	324.5	326.3	327.3	325.3	319.1	313.9	311.5	310.2	309.8
22.5°	341.0	335.4	334.8	334.8	329.8	322.7	313.5	306.4	303.2	301.6	301.2
25°	351.5	346.2	345.2	339.8	326.9	314.1	301.6	295.2	292.6	291.8	292.0
27.5°	363.7	360.1	356.9	341.4	318.9	298.8	284.7	281.9	280.9	281.9	282.5
30°	378.8	375.2	368.0	339.4	306.0	278.9	265.4	265.2	268.2	270.8	271.2
32.5°	391.1	389.5	377.6	333.0	287.9	257.0	245.5	246.3	251.7	255.4	256.0
35°	400.7	403.3	385.6	322.3	266.4	236.3	227.2	227.6	230.6	235.7	235.9
37.5°	414.4	423.2	392.9	306.0	241.7	218.4	210.1	207.1	206.7	208.1	208.5
40°	441.9	455.2	398.1	282.3	217.8	202.3	193.0	187.2	182.2	178.3	177.1
42.5°	483.6	498.9	401.1	253.5	196.4	186.4	175.9	168.5	159.6	151.6	148.8
45°	560.0	565.0	401.1	223.0	177.5	171.5	161.1	152.2	140.9	131.5	129.5
47.5°	682.2	666.1	401.5	193.4	160.9	158.4	149.4	139.3	126.9	119.0	117.8
50°	866.4	809.9	409.8	168.9	147.0	147.4	140.7	129.7	118.4	112.6	111.6
52.5°	1075.1	987.0	431.9	150.8	135.3	138.3	134.7	124.1	114.0	109.0	108.0
55°	1271.4	1149.9	450.8	137.9	125.5	130.7	130.5	120.6	111.6	106.6	106.0
57.5°	1438.2	1261.5	448.0	127.5	117.0	123.7	126.7	118.4	110.0	105.8	105.2
60°	1542.0	1320.6	408.0	117.8	110.6	118.6	124.5	117.8	110.8	109.8	110.0
62.5°	1587.0	1309.8	331.2	110.6	106.4	116.2	126.9	122.0	118.2	120.6	122.0
65°	1517.1	1216.5	243.7	105.2	102.3	116.8	132.5	128.7	118.2	119.8	120.4
67.5°	1322.8	1035.5	176.1	99.7	97.3	118.6	140.5	127.7	111.4	111.4	110.2
70°	953.3	744.8	127.9	94.3	92.3	116.0	140.9	120.8	103.6	102.9	99.9
72.5°	573.6	439.3	99.7	88.3	84.6	102.9	132.1	112.8	95.9	90.9	87.3
75°	298.0	220.2	83.6	81.6	72.6	87.3	120.8	100.3	82.0	77.6	75.6
77.5°	127.7	102.9	71.8	72.8	60.3	73.4	97.5	86.9	72.8	67.2	65.3
80°	62.9	58.5	56.7	58.3	48.3	56.7	84.0	76.0	61.7	55.3	52.7
82.5°	36.0	34.2	40.8	41.4	34.4	47.5	71.0	64.3	51.1	44.0	39.8
85°	16.7	17.9	24.7	24.9	21.3	32.6	46.4	36.2	27.1	22.5	21.5
87.5°	6.6	7.8	10.9	10.7	6.2	6.0	4.0	2.2	1.8	1.6	1.4
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)