

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: P628884

Luminaire Tested: GWS-SA1A-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628884
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-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2819.4 lumens
Efficiency: N/A
Efficacy: 143.1 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

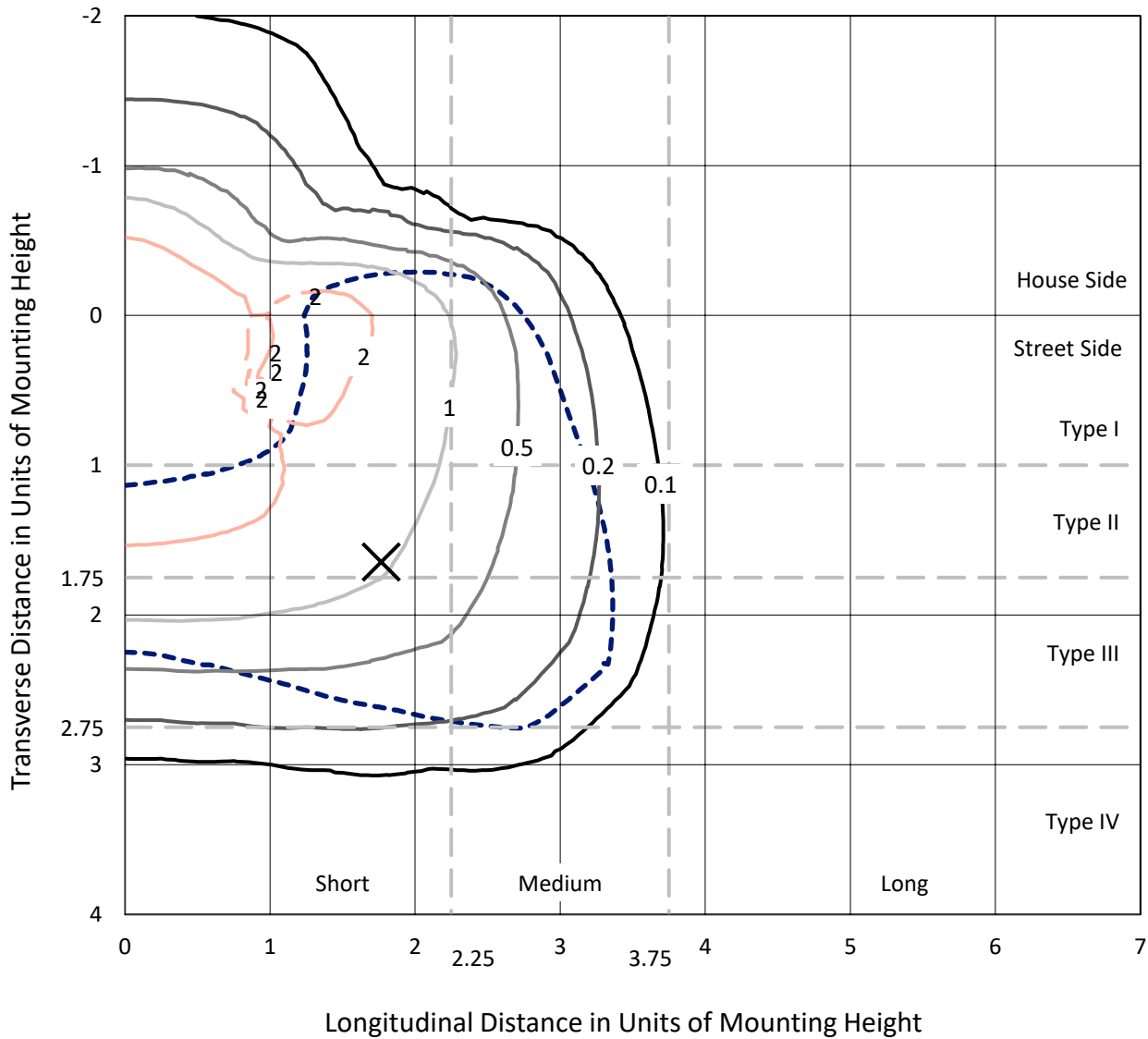
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

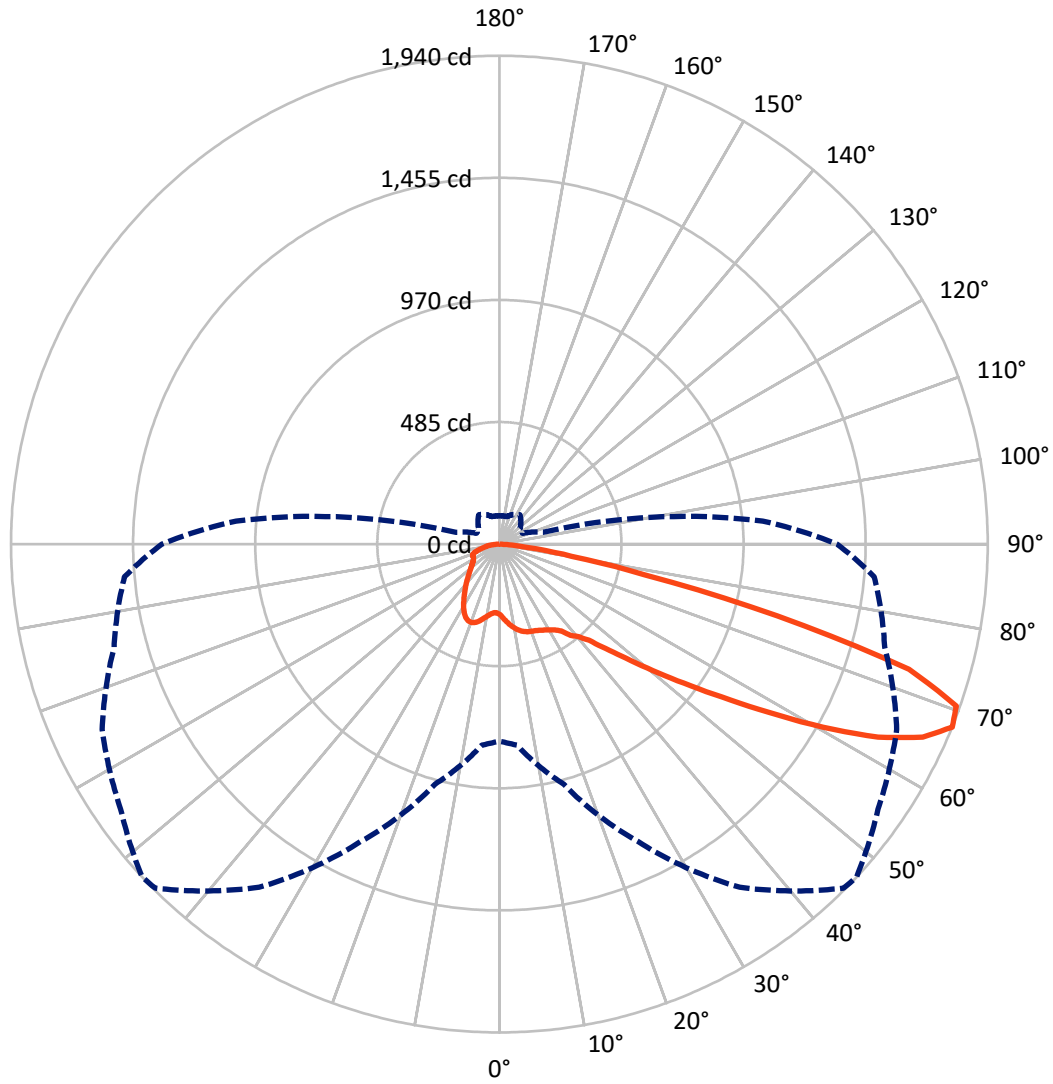
✕ Max cd
 - - - 1/2 Max cd



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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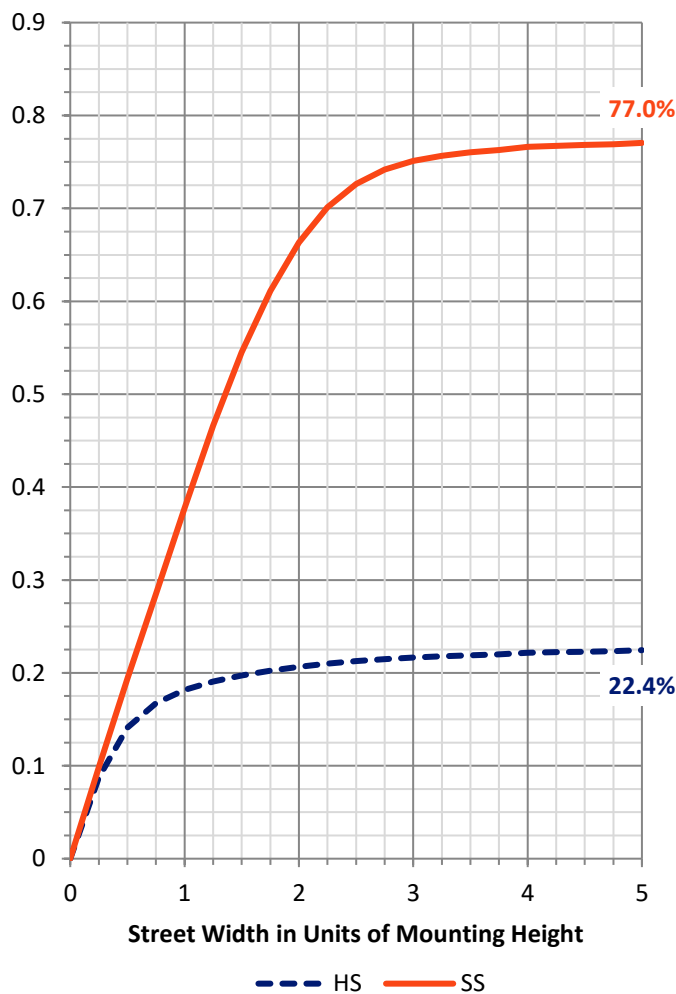
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.6	0.0	642.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	2176.8	0.0	2176.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	2819.4	0.0	2819.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	1.0
10°-20°	95.2	3.4
20°-30°	161.8	5.7
30°-40°	237.0	8.4
40°-50°	361.0	12.8
50°-60°	646.0	22.9
60°-70°	862.0	30.6
70°-80°	389.8	13.8
80°-90°	38.2	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°	2819.4	100.0
0°-180°	2819.4	100.0

Coefficient of Utilization



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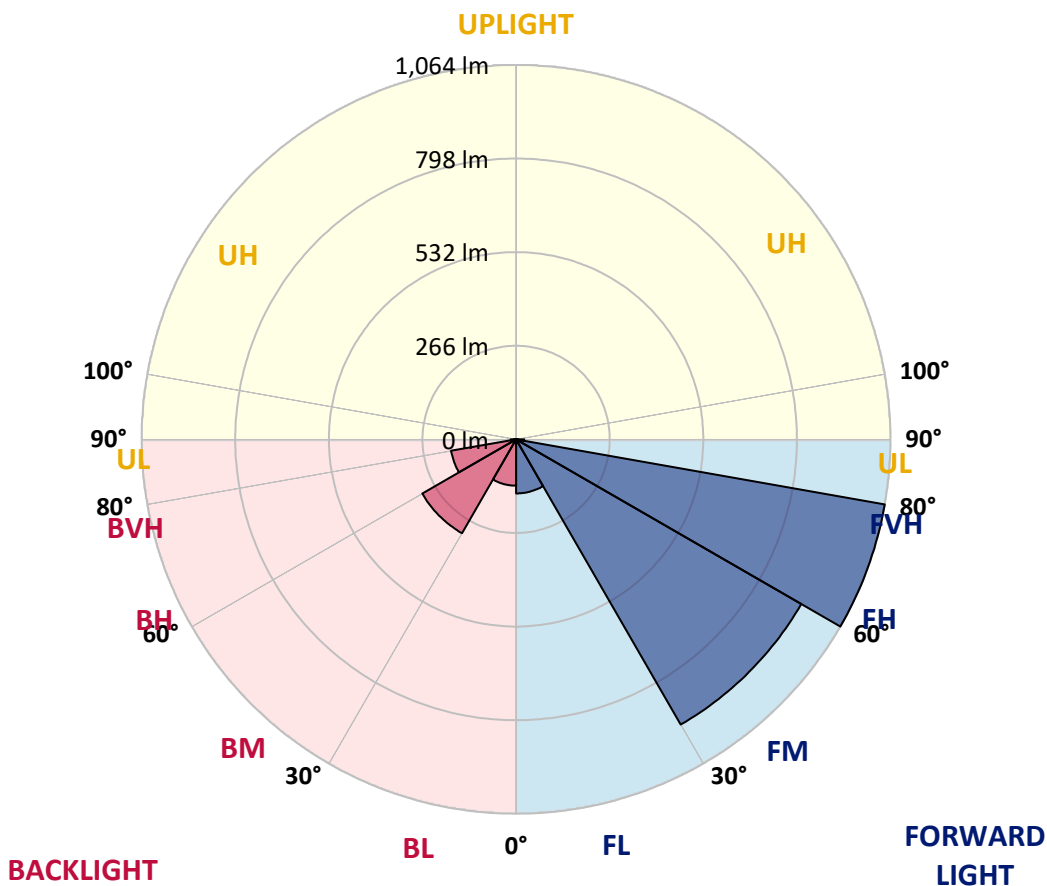
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.8	5.5			
FM (30°-60°)	936.1	33.2			
FH (60°-80°)	1064.3	37.7			G1/1800
FVH (80°-90°)	22.7	0.8			G1/100
BL (0°-30°)	131.7	4.7	B1/500		
BM (30°-60°)	307.9	10.9	B1/1000		
BH (60°-80°)	187.5	6.6	B1/500		G1/500
BVH (80°-90°)	15.5	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°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5
2.5°	298.0	299.1	298.9	297.2	296.2	294.4	294.6	291.7	287.4	284.6	281.3
5°	324.3	326.0	323.9	321.3	317.2	311.3	310.7	304.2	296.0	290.3	284.4
7.5°	347.2	348.2	345.7	341.3	335.3	327.4	326.0	318.2	308.0	299.1	290.5
10°	364.9	366.1	362.9	357.0	349.2	341.3	340.2	332.3	321.5	310.9	300.1
12.5°	380.0	380.4	376.9	369.0	360.6	352.5	351.5	344.1	334.1	323.3	311.5
15°	388.8	389.0	384.7	375.9	368.0	360.8	360.2	353.9	344.7	334.5	321.9
17.5°	388.1	388.6	385.5	377.8	370.8	366.5	365.9	361.9	354.7	345.5	332.9
20°	380.6	381.0	379.0	373.9	370.2	369.0	369.2	368.0	363.7	356.1	343.3
22.5°	374.7	375.3	373.5	369.8	369.4	372.2	372.9	373.5	371.4	364.7	352.3
25°	377.5	378.6	375.7	370.6	371.4	377.8	379.0	381.0	379.4	373.7	362.9
27.5°	397.3	397.9	390.6	380.2	377.8	384.5	386.3	389.6	388.4	383.1	374.7
30°	443.2	442.8	427.1	401.6	391.4	394.1	395.5	400.2	400.6	397.1	389.2
32.5°	507.8	505.8	481.5	440.9	411.4	404.9	406.5	412.8	417.5	413.8	403.0
35°	576.1	574.3	547.6	500.1	448.3	425.7	423.8	428.7	435.9	425.7	410.2
37.5°	641.1	638.3	611.0	552.3	493.7	462.2	459.5	454.6	450.3	430.8	418.9
40°	713.3	710.0	686.2	619.7	543.9	490.1	483.4	464.0	460.1	447.7	441.8
42.5°	790.4	790.4	770.6	705.2	604.4	530.0	521.3	492.1	496.2	488.0	481.1
45°	867.4	869.7	854.0	791.2	685.4	605.5	591.4	550.0	559.8	556.1	552.7
47.5°	933.1	937.3	934.3	879.0	784.5	697.2	675.8	632.8	653.8	662.5	672.3
50°	1003.8	1008.5	1005.4	983.6	900.4	808.3	789.1	744.7	780.8	807.1	839.1
52.5°	1108.8	1115.5	1090.0	1081.7	1041.3	934.5	917.4	866.8	932.3	975.9	1047.2
55°	1197.5	1197.3	1188.3	1207.5	1192.6	1088.8	1069.9	1024.0	1107.6	1153.8	1258.2
57.5°	1238.7	1243.5	1274.3	1328.6	1358.3	1277.4	1259.2	1212.4	1295.7	1319.8	1432.5
60°	1259.9	1266.0	1325.5	1432.7	1512.8	1483.3	1476.1	1416.4	1463.3	1460.5	1579.5
62.5°	1230.1	1242.3	1337.9	1480.4	1623.1	1690.2	1688.0	1597.6	1605.8	1577.9	1670.6
65°	1093.5	1106.8	1256.8	1456.6	1686.1	1847.6	1848.2	1761.8	1715.3	1635.0	1655.3
67.5°	782.0	801.0	986.5	1303.3	1663.9	1932.6	1939.7	1836.2	1741.0	1584.4	1494.7
70°	426.3	440.1	585.5	947.3	1463.7	1912.2	1925.5	1800.3	1627.6	1370.5	1150.6
72.5°	193.7	198.2	272.4	519.8	999.9	1646.0	1701.4	1606.6	1336.7	1012.4	731.7
75°	88.7	90.7	118.6	248.7	522.5	1101.5	1140.4	1196.7	930.2	639.3	381.4
77.5°	55.7	56.3	67.5	113.8	260.5	549.8	590.8	712.5	544.7	316.4	159.4
80°	32.8	33.4	42.0	61.6	122.3	251.6	290.5	281.7	256.0	136.6	72.6
82.5°	16.5	17.1	24.3	35.1	66.7	100.1	117.8	118.4	95.4	74.0	41.0
85°	5.9	6.1	8.0	13.9	28.3	33.0	36.9	45.1	46.7	43.0	19.8
87.5°	0.0	0.0	0.2	0.4	0.8	3.3	3.5	6.5	13.7	15.3	8.0
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°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5
2.5°	280.3	277.2	276.2	275.2	273.6	273.0	271.7	270.5	270.5	269.3	268.7
5°	281.7	277.7	275.0	273.8	272.8	273.4	273.4	273.8	275.2	274.4	274.8
7.5°	286.8	282.1	278.5	277.5	277.5	279.9	281.5	283.6	286.2	286.6	286.6
10°	295.8	290.3	286.4	285.8	286.8	290.3	292.7	295.2	298.5	298.7	299.1
12.5°	305.6	300.1	296.2	297.0	298.0	302.5	305.2	307.2	310.5	310.5	310.3
15°	315.8	309.7	306.4	308.0	311.1	316.2	316.6	316.8	318.4	318.0	317.8
17.5°	326.4	319.9	317.4	319.9	323.1	325.6	323.5	320.7	320.1	319.2	318.8
20°	336.8	330.0	329.0	330.9	331.9	329.8	323.5	318.2	315.8	314.6	314.1
22.5°	345.7	340.0	339.4	339.4	334.3	327.2	317.8	310.7	307.4	305.8	305.4
25°	356.3	351.0	350.0	344.5	331.5	318.4	305.8	299.3	296.6	295.8	296.0
27.5°	368.8	365.1	361.9	346.2	323.3	302.9	288.7	285.8	284.8	285.8	286.4
30°	384.1	380.4	373.1	344.1	310.3	282.8	269.1	268.9	271.9	274.6	275.0
32.5°	396.5	394.9	382.8	337.6	291.9	260.5	248.9	249.7	255.2	258.9	259.5
35°	406.3	408.9	391.0	326.8	270.1	239.5	230.4	230.8	233.8	238.9	239.1
37.5°	420.2	429.1	398.3	310.3	245.0	221.4	213.0	210.0	209.6	211.0	211.4
40°	448.1	461.5	403.6	286.2	220.8	205.1	195.7	189.8	184.7	180.8	179.6
42.5°	490.3	505.8	406.7	257.1	199.2	189.0	178.4	170.8	161.9	153.7	150.9
45°	567.7	572.8	406.7	226.1	180.0	173.9	163.3	154.3	142.9	133.3	131.3
47.5°	691.7	675.4	407.1	196.1	163.1	160.6	151.5	141.3	128.6	120.7	119.5
50°	878.4	821.1	415.5	171.2	149.0	149.4	142.7	131.5	120.1	114.2	113.1
52.5°	1090.0	1000.7	437.9	152.9	137.2	140.3	136.6	125.8	115.6	110.5	109.5
55°	1289.0	1165.9	457.1	139.8	127.2	132.5	132.3	122.3	113.1	108.0	107.4
57.5°	1458.2	1279.0	454.2	129.2	118.6	125.4	128.4	120.1	111.5	107.2	106.6
60°	1563.4	1339.0	413.6	119.5	112.1	120.3	126.2	119.5	112.3	111.3	111.5
62.5°	1609.1	1327.9	335.8	112.1	107.8	117.8	128.6	123.7	119.9	122.3	123.7
65°	1538.1	1233.4	247.1	106.6	103.8	118.4	134.3	130.5	119.9	121.5	122.1
67.5°	1341.2	1049.9	178.6	101.1	98.7	120.3	142.5	129.5	112.9	112.9	111.7
70°	966.5	755.1	129.7	95.6	93.6	117.6	142.9	122.5	105.0	104.4	101.3
72.5°	581.6	445.4	101.1	89.5	85.8	104.4	133.9	114.4	97.2	92.1	88.5
75°	302.1	223.2	84.8	82.8	73.6	88.5	122.5	101.7	83.2	78.7	76.7
77.5°	129.5	104.4	72.8	73.8	61.2	74.4	98.9	88.1	73.8	68.1	66.3
80°	63.8	59.3	57.5	59.1	48.9	57.5	85.2	77.1	62.6	56.1	53.4
82.5°	36.5	34.7	41.4	42.0	34.9	48.1	72.0	65.2	51.8	44.6	40.4
85°	16.9	18.1	25.1	25.3	21.6	33.0	47.1	36.7	27.5	22.8	21.8
87.5°	6.7	8.0	11.0	10.8	6.3	6.1	4.1	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)