

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: P632114

Luminaire Tested: GWS-SA2C-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5498.1 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

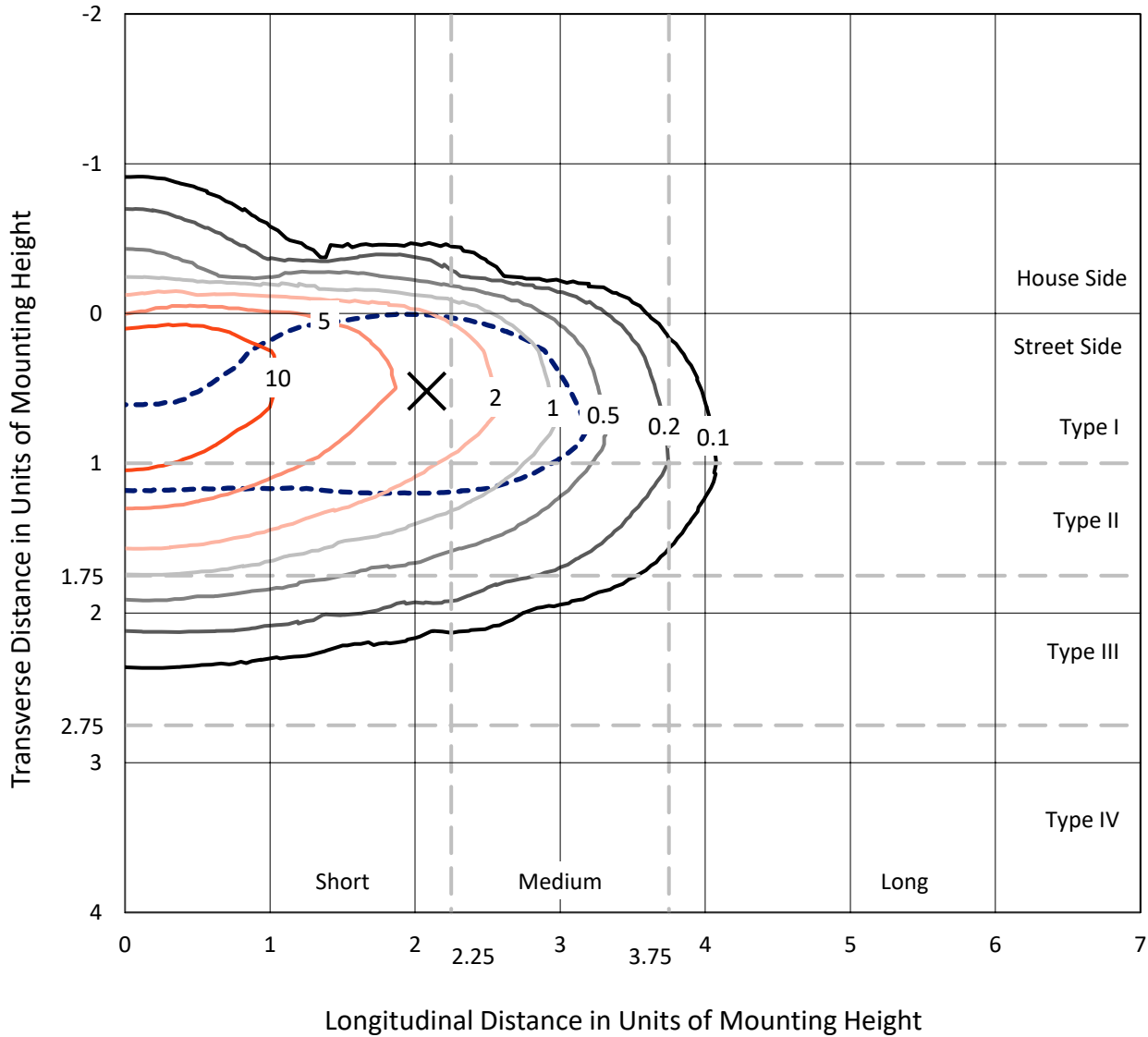
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

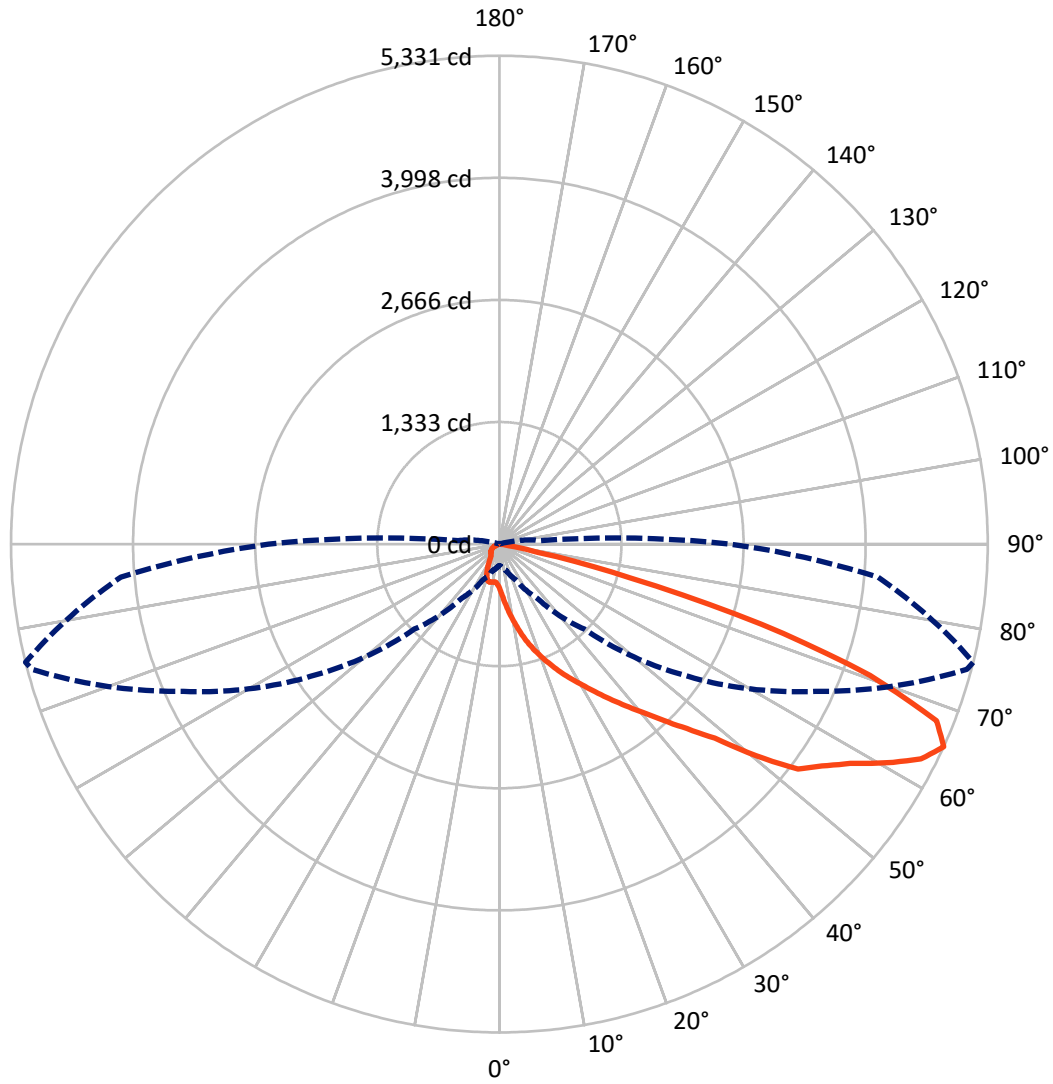
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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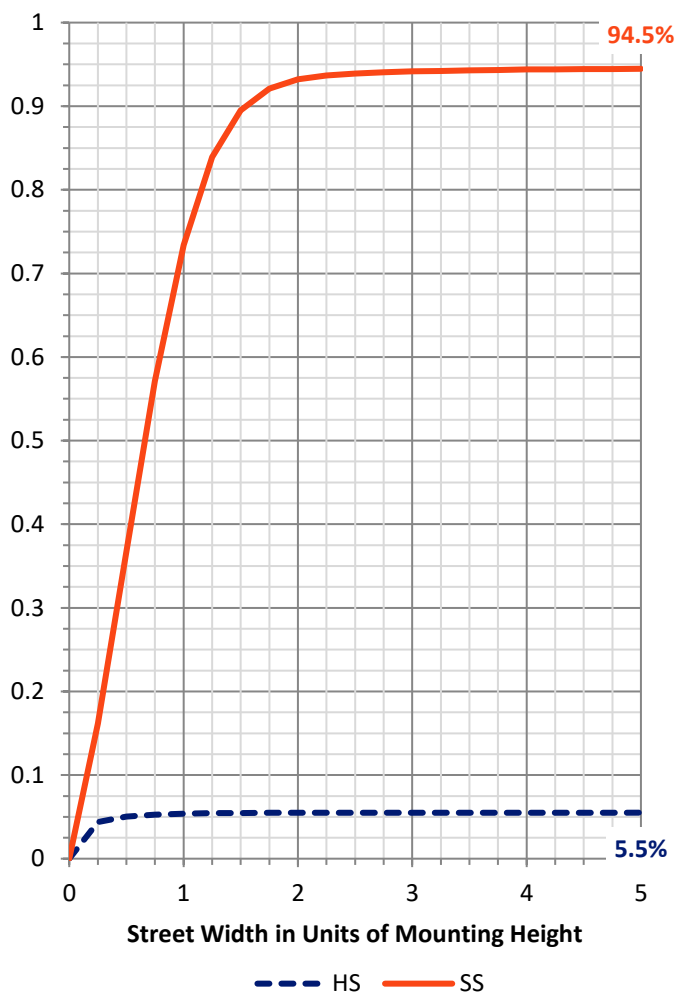
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	304.0	0.0	304.0
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	5194.1	0.0	5194.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	5498.1	0.0	5498.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	1.1
10°-20°	224.7	4.1
20°-30°	458.4	8.3
30°-40°	815.3	14.8
40°-50°	1205.3	21.9
50°-60°	1379.9	25.1
60°-70°	1052.8	19.1
70°-80°	294.9	5.4
80°-90°	7.4	0.1
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°	5498.1	100.0
0°-180°	5498.1	100.0

Coefficient of Utilization



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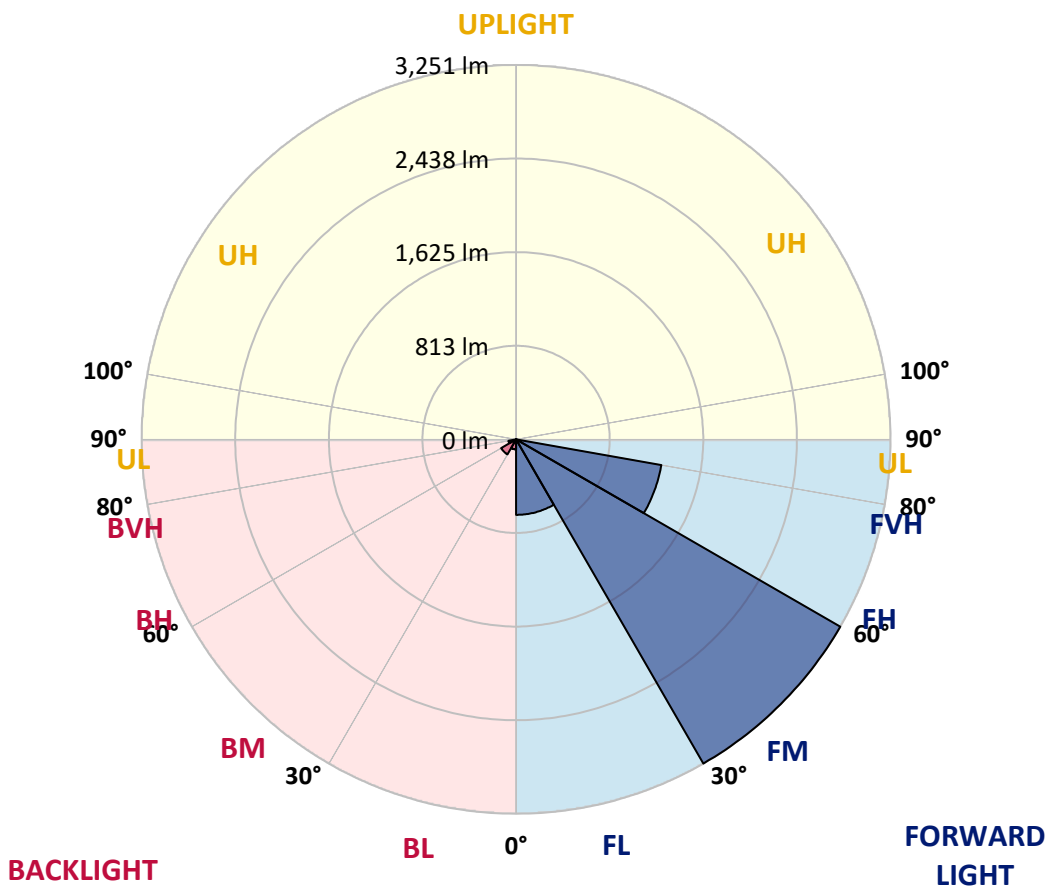
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.6	11.9			
FM (30°-60°)	3250.6	59.1			
FH (60°-80°)	1280.9	23.3			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	86.8	1.6	B0/110		
BM (30°-60°)	150.0	2.7	B0/220		
BH (60°-80°)	66.8	1.2	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	486.8	486.8	486.8	486.8	486.8	486.8	486.8	486.8	486.8	486.8	486.8
2.5°	750.2	761.5	752.7	738.0	709.6	682.3	647.1	598.7	560.1	555.2	519.0
5°	1013.2	1012.2	993.1	974.1	944.2	897.3	826.5	736.5	650.0	642.7	561.6
7.5°	1169.5	1171.0	1160.3	1145.6	1116.3	1067.9	994.1	885.6	759.0	744.3	619.7
10°	1301.0	1300.5	1292.7	1285.9	1259.5	1227.2	1148.0	1028.8	876.3	853.3	684.7
12.5°	1399.7	1403.2	1407.1	1413.9	1402.7	1370.9	1296.1	1166.1	995.1	969.7	759.0
15°	1477.9	1478.9	1493.6	1520.0	1529.3	1512.6	1444.7	1299.1	1112.4	1090.4	844.5
17.5°	1501.4	1503.4	1528.3	1576.7	1625.5	1634.8	1583.5	1433.0	1227.7	1204.2	927.6
20°	1550.8	1555.2	1573.7	1616.3	1677.8	1727.7	1707.6	1568.4	1343.1	1312.3	1012.7
22.5°	1706.2	1708.6	1702.3	1707.6	1739.4	1797.1	1809.3	1699.3	1461.3	1428.6	1104.5
25°	1973.5	1974.5	1930.0	1888.0	1864.0	1874.8	1901.7	1820.1	1578.6	1546.4	1190.1
27.5°	2251.1	2254.5	2201.3	2129.9	2044.4	1995.5	1987.7	1930.5	1696.9	1661.2	1274.6
30°	2512.6	2512.6	2456.4	2369.4	2255.0	2159.7	2103.5	2041.9	1823.5	1784.4	1361.1
32.5°	2747.7	2745.7	2673.9	2579.6	2466.7	2362.1	2243.8	2158.3	1964.2	1920.7	1460.8
35°	2941.7	2936.8	2855.2	2764.8	2644.1	2566.4	2434.4	2283.4	2116.7	2073.2	1563.5
37.5°	3088.3	3083.0	3008.2	2912.4	2800.5	2750.1	2639.7	2433.4	2277.5	2237.9	1677.3
40°	3168.0	3157.2	3105.4	3034.1	2940.2	2896.3	2850.3	2619.6	2466.7	2417.3	1811.7
42.5°	3191.5	3178.7	3144.5	3111.3	3054.6	3019.9	3069.3	2829.8	2674.4	2631.9	1965.2
45°	3122.1	3114.7	3111.8	3135.7	3146.0	3155.8	3277.5	3062.4	2903.6	2871.3	2158.3
47.5°	2954.9	2953.0	2978.9	3078.6	3187.1	3290.2	3503.8	3349.3	3200.7	3166.0	2428.0
50°	2646.0	2666.1	2738.4	2913.4	3130.4	3366.4	3715.4	3747.1	3681.7	3630.8	2779.9
52.5°	2163.2	2201.8	2364.0	2629.9	2941.7	3344.9	3813.1	4065.8	4132.8	4080.0	3032.1
55°	1697.4	1733.6	1878.2	2215.4	2631.4	3181.2	3817.5	4175.8	4321.9	4273.0	3202.7
57.5°	1264.4	1297.6	1429.1	1751.6	2209.1	2859.1	3712.9	4236.9	4546.2	4515.0	3472.0
60°	826.5	859.2	978.0	1260.0	1713.5	2389.9	3455.4	4224.2	4851.7	4848.8	3802.9
62.5°	458.4	484.3	570.4	790.3	1195.9	1850.8	3050.7	4096.6	5147.4	5166.0	4075.6
65°	234.6	251.2	303.5	434.5	723.8	1312.3	2518.5	3804.3	5284.2	5331.1	4147.4
67.5°	153.5	158.8	171.5	225.8	387.6	825.5	1895.3	3335.6	5091.7	5146.4	3906.5
70°	124.6	129.0	136.4	150.5	199.9	438.4	1244.8	2664.1	4254.5	4291.6	3110.8
72.5°	91.4	97.3	111.4	120.7	144.2	240.5	647.6	1748.7	2921.7	2987.2	1954.9
75°	67.4	70.9	82.6	95.3	117.8	152.0	247.8	919.3	1508.7	1470.6	821.1
77.5°	40.6	43.0	52.8	61.1	84.1	94.8	86.5	339.7	458.9	431.6	198.4
80°	20.0	22.5	34.7	45.9	53.8	38.1	36.2	94.8	102.1	102.1	49.9
82.5°	6.8	8.8	18.6	30.3	26.4	14.7	17.1	24.4	27.4	28.8	14.7
85°	0.0	0.0	4.4	8.8	3.9	2.0	4.4	5.4	6.8	7.3	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	2.0
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°	486.8	486.8	486.8	486.8	486.8	486.8	486.8	486.8	486.8	486.8	486.8
2.5°	499.5	476.5	441.8	410.5	386.6	364.1	347.0	333.3	330.9	323.1	324.0
5°	522.0	480.4	416.4	367.0	332.3	308.9	289.3	274.7	268.3	262.0	257.1
7.5°	556.7	496.6	406.6	346.5	305.9	269.8	239.5	215.0	203.3	196.0	191.1
10°	599.2	519.0	407.1	334.3	274.2	219.0	177.4	150.5	137.8	133.9	133.4
12.5°	650.0	547.4	411.0	314.3	228.2	162.7	131.5	119.3	115.3	111.9	111.9
15°	703.8	579.2	411.0	277.6	174.0	127.1	113.9	106.1	101.2	99.2	98.2
17.5°	760.5	609.0	401.3	227.3	133.4	111.9	101.2	93.8	89.9	87.0	86.0
20°	821.1	637.3	376.8	174.0	114.4	100.2	89.9	82.6	78.7	75.8	75.8
22.5°	882.7	663.7	337.2	133.9	101.2	89.0	79.2	72.3	68.4	65.5	65.5
25°	939.8	681.3	286.4	110.5	91.4	79.2	70.4	63.5	59.1	57.2	56.2
27.5°	993.1	692.5	230.2	97.3	82.1	70.9	61.6	55.2	51.8	50.3	49.4
30°	1048.3	695.5	175.9	88.5	74.3	62.6	53.8	48.9	45.9	44.0	44.0
32.5°	1102.1	692.1	134.4	81.1	67.4	55.2	47.9	43.5	41.1	39.6	39.1
35°	1156.8	676.4	109.0	74.8	60.6	48.4	42.5	39.1	37.6	35.7	35.7
37.5°	1216.5	655.4	94.8	68.4	53.8	43.5	38.1	35.7	33.7	32.3	31.8
40°	1290.8	631.0	87.0	63.0	47.4	39.1	34.2	31.8	30.3	28.8	28.3
42.5°	1378.7	607.0	83.1	57.2	42.5	34.7	30.8	27.9	26.4	24.4	23.9
45°	1503.4	601.6	78.7	50.8	38.1	31.3	26.9	23.9	22.0	20.5	20.0
47.5°	1703.7	616.8	71.4	44.0	33.7	27.4	23.0	20.5	18.1	16.6	15.6
50°	1902.7	612.9	64.0	38.1	29.8	23.5	19.5	17.1	14.7	13.2	12.7
52.5°	2011.2	594.3	57.2	33.7	25.9	20.0	16.6	13.7	12.2	10.8	10.3
55°	2109.4	587.0	50.3	29.3	22.0	17.6	13.7	11.2	10.3	8.8	8.3
57.5°	2302.0	604.1	44.5	25.4	19.1	15.2	11.7	9.3	8.3	6.8	6.4
60°	2503.3	606.0	38.1	22.0	16.6	12.7	9.3	7.3	6.4	4.9	4.4
62.5°	2608.4	556.7	31.3	18.6	13.7	10.8	7.8	5.9	4.9	2.9	2.9
65°	2520.4	450.1	26.4	15.2	10.8	8.3	5.9	4.4	2.9	1.5	0.5
67.5°	2230.6	320.1	22.0	12.2	7.8	5.9	4.4	2.9	0.5	0.0	0.0
70°	1633.4	182.8	17.1	8.8	5.9	3.9	2.9	1.5	0.0	0.0	0.0
72.5°	1003.9	97.7	12.7	5.9	4.4	2.9	2.4	1.0	0.0	0.0	0.0
75°	380.7	46.9	7.8	3.9	3.4	2.4	1.5	0.5	0.0	0.0	0.0
77.5°	103.1	23.0	4.4	2.9	2.4	1.5	1.0	0.0	0.0	0.0	0.0
80°	26.9	10.8	2.9	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.3	4.9	1.5	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
85°	3.9	2.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	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)