

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: P633045

Luminaire Tested: GWS-SA2D-830-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6947.8 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

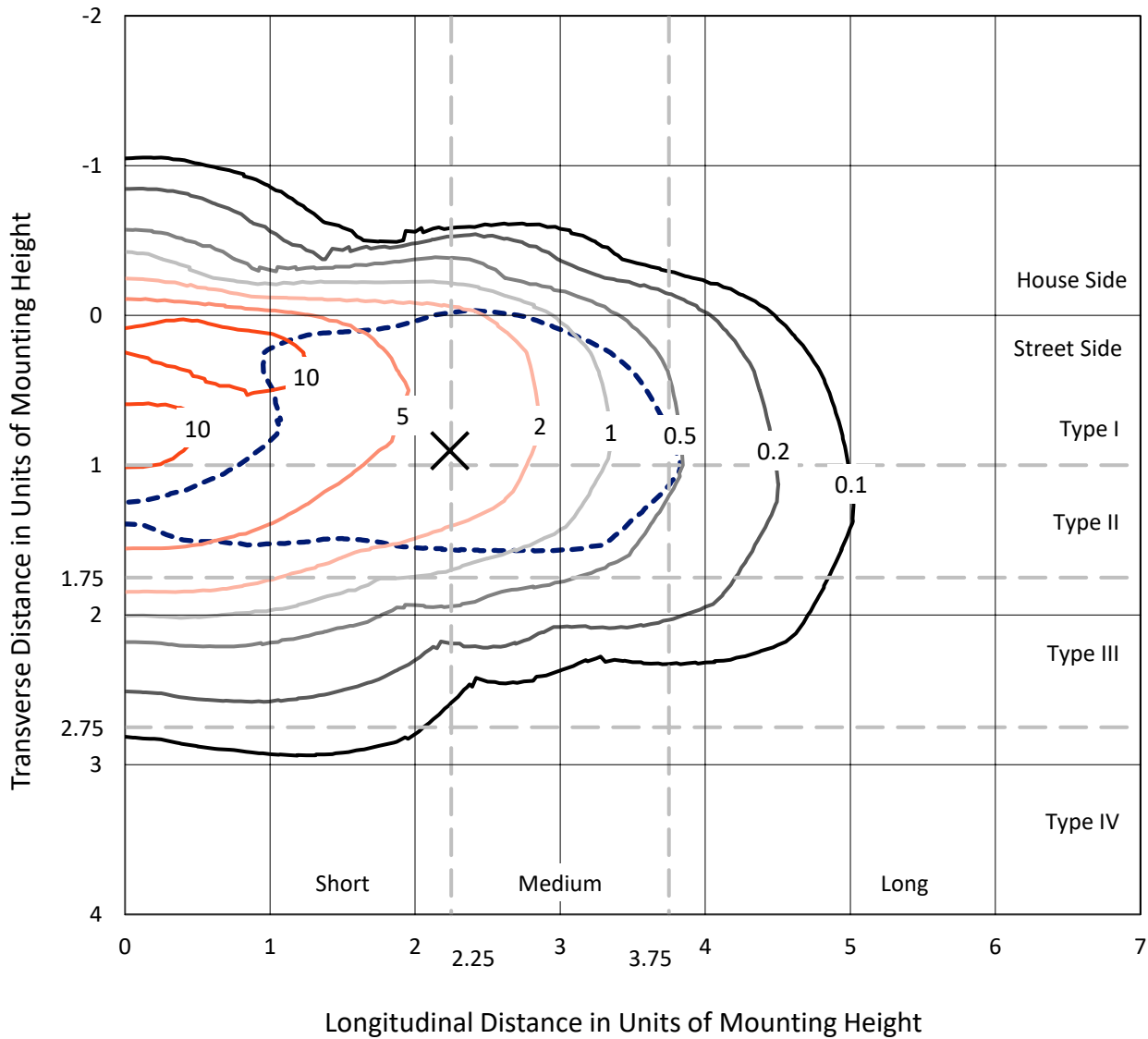
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

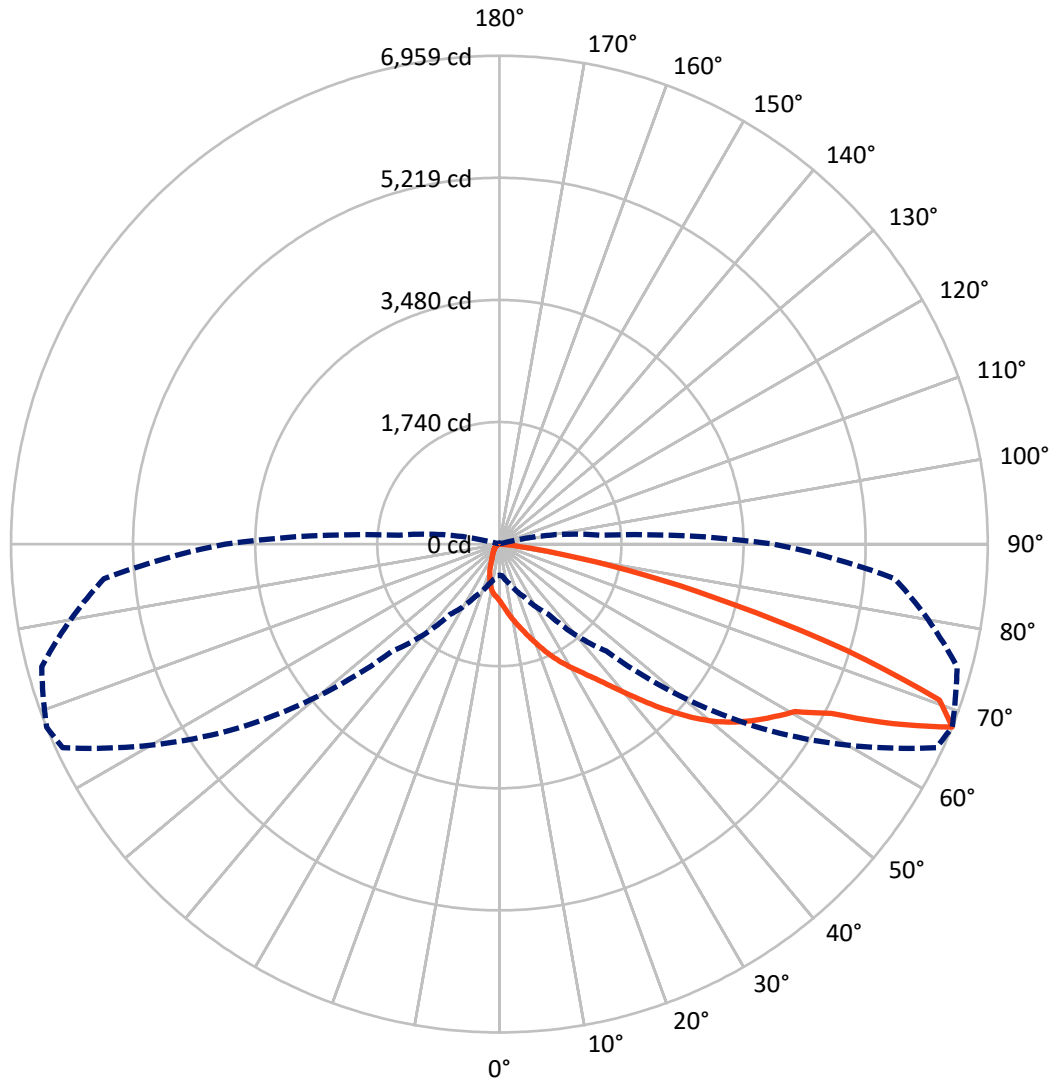
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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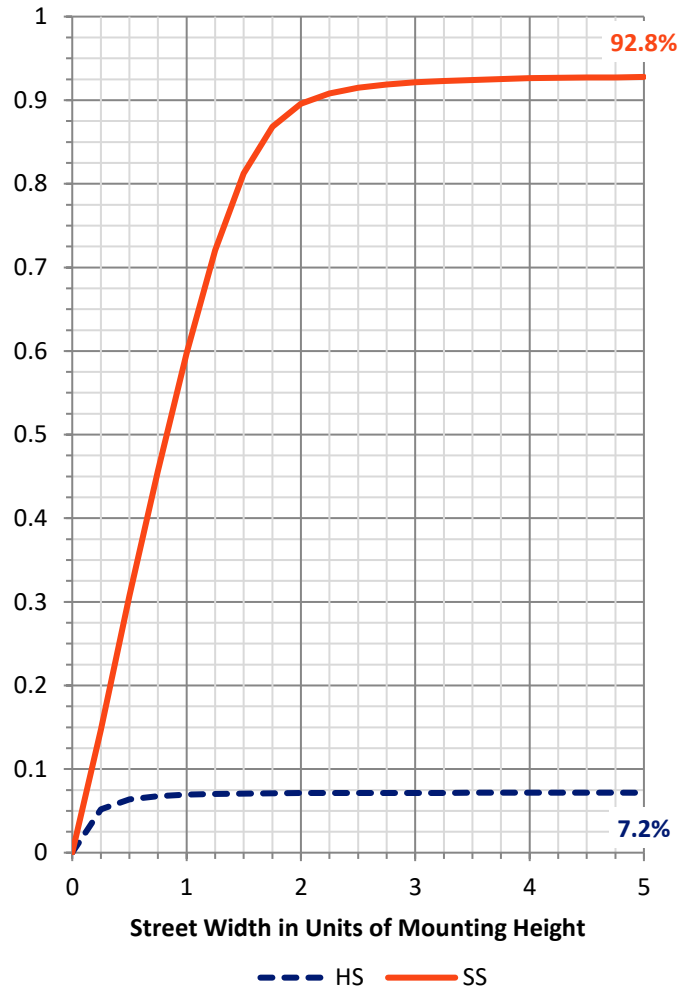
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	501.7	0.0	501.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6446.1	0.0	6446.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	6947.8	0.0	6947.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	1.1
10°-20°	226.5	3.3
20°-30°	389.2	5.6
30°-40°	676.6	9.7
40°-50°	1180.6	17.0
50°-60°	1780.7	25.6
60°-70°	1785.6	25.7
70°-80°	787.8	11.3
80°-90°	42.1	0.6
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°	6947.8	100.0
0°-180°	6947.8	100.0

Coefficient of Utilization



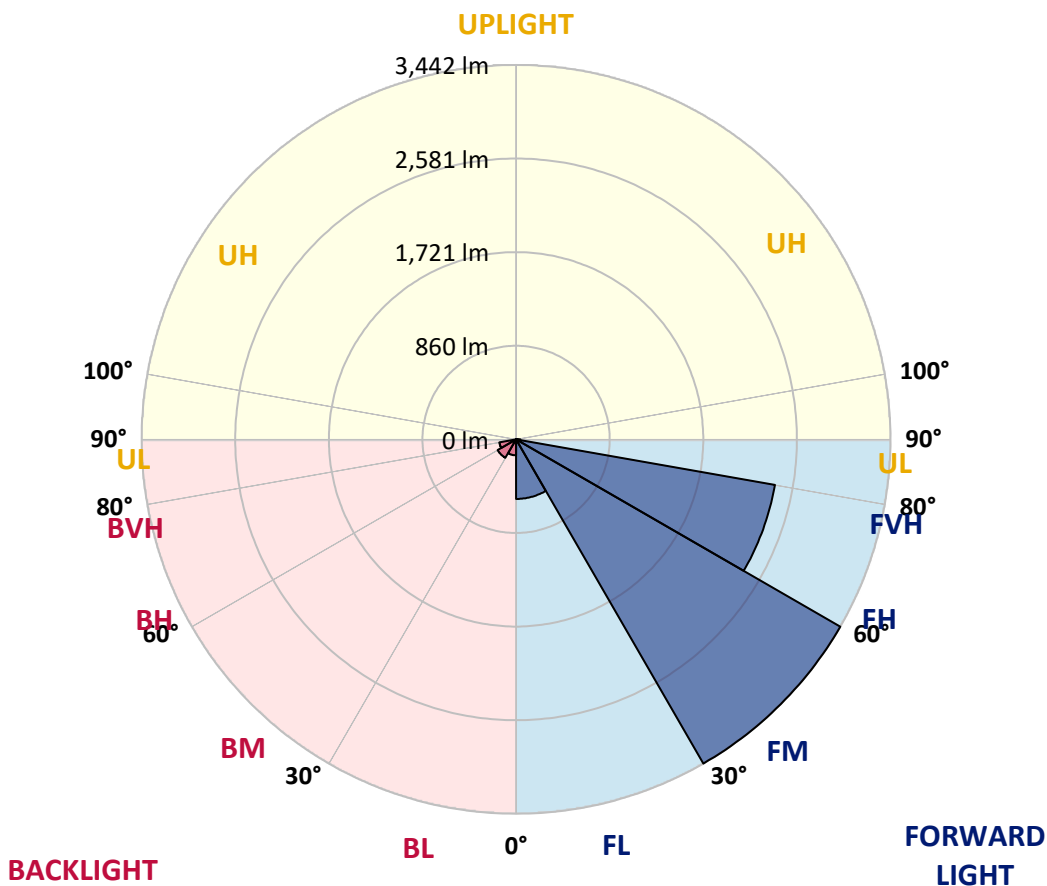
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.7	7.9			
FM (30°-60°)	3441.9	49.5			
FH (60°-80°)	2416.8	34.8			G2/5000
FVH (80°-90°)	39.7	0.6			G1/100
BL (0°-30°)	146.8	2.1	B1/500		
BM (30°-60°)	196.0	2.8	B0/220		
BH (60°-80°)	156.6	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	941.5	947.5	941.5	942.9	925.6	917.6	900.3	876.4	870.4	855.1	831.8
5°	1056.6	1061.9	1055.9	1054.6	1034.6	1020.0	991.4	950.2	938.2	908.3	862.4
7.5°	1119.1	1122.4	1124.4	1127.7	1120.4	1108.4	1082.5	1031.3	1018.7	970.1	905.6
10°	1125.7	1128.4	1138.3	1158.3	1172.9	1180.2	1165.6	1118.4	1098.5	1051.2	958.8
12.5°	1107.1	1111.1	1127.0	1160.3	1200.9	1238.1	1247.4	1206.2	1188.2	1127.7	1021.3
15°	1082.5	1085.8	1107.8	1153.0	1214.2	1282.6	1321.2	1303.3	1283.3	1220.1	1090.5
17.5°	1044.6	1049.2	1079.8	1141.0	1220.1	1317.9	1401.0	1407.0	1393.0	1324.5	1166.9
20°	1023.3	1026.6	1053.9	1117.1	1216.1	1343.8	1475.5	1532.0	1516.7	1444.9	1254.7
22.5°	1041.3	1043.9	1061.9	1111.1	1202.8	1358.4	1544.6	1657.0	1648.3	1573.9	1347.1
25°	1135.7	1144.3	1133.7	1142.3	1208.8	1366.4	1600.5	1782.0	1784.0	1708.9	1442.9
27.5°	1327.2	1315.9	1290.6	1247.4	1255.4	1387.7	1648.3	1899.7	1917.0	1840.5	1528.0
30°	1522.0	1515.4	1500.1	1432.9	1377.1	1434.9	1688.9	2020.0	2047.3	1970.2	1603.8
32.5°	1740.8	1747.4	1720.2	1639.7	1544.6	1530.7	1730.8	2134.4	2185.6	2117.1	1692.9
35°	2002.1	2004.1	1950.2	1861.1	1753.4	1688.9	1805.9	2260.7	2355.2	2304.6	1811.9
37.5°	2256.8	2268.7	2239.5	2099.2	2003.4	1885.7	1930.3	2423.0	2556.0	2536.0	1961.5
40°	2482.2	2500.8	2491.5	2355.8	2230.2	2131.1	2123.1	2613.2	2798.7	2821.3	2159.0
42.5°	2661.7	2673.7	2681.0	2584.6	2473.5	2417.7	2361.1	2833.9	3085.2	3177.7	2401.0
45°	2851.2	2855.2	2870.5	2805.3	2708.2	2712.9	2642.4	3101.9	3387.1	3572.6	2679.0
47.5°	3092.6	3105.9	3098.5	3030.1	2942.3	2994.8	2933.0	3377.8	3685.0	3994.2	2963.6
50°	3386.5	3400.4	3393.8	3314.0	3216.2	3238.2	3199.6	3645.8	3972.3	4391.8	3200.3
52.5°	3538.1	3549.4	3631.8	3667.7	3616.5	3476.9	3427.0	3940.3	4215.0	4719.0	3417.7
55°	3464.9	3472.9	3652.4	3804.0	3991.5	3851.9	3655.8	4167.7	4429.1	4974.3	3579.3
57.5°	3161.7	3204.9	3449.0	3705.6	4099.9	4222.3	4026.8	4415.1	4635.2	5151.8	3738.2
60°	2540.0	2538.0	2887.8	3348.6	3888.5	4324.0	4550.7	4749.6	4842.0	5288.1	3951.0
62.5°	1403.7	1416.3	1881.7	2488.8	3300.7	4060.7	4943.7	5327.4	5313.4	5526.2	4284.1
65°	698.8	724.1	976.8	1425.6	2196.2	3355.9	5011.5	6209.1	6169.2	6086.7	4972.3
67.5°	443.5	453.5	593.1	828.5	1220.8	2157.0	4589.3	6866.7	6959.1	6751.6	5655.2
70°	287.2	303.9	412.3	566.5	736.7	1111.8	3361.9	6440.5	6652.6	6678.5	5229.6
72.5°	156.3	168.2	263.3	404.3	531.9	555.9	1888.4	4833.3	5174.4	5665.2	4091.3
75°	89.1	97.7	144.3	274.6	390.3	338.4	837.1	3235.5	3452.9	4048.7	2931.6
77.5°	53.9	61.2	81.1	133.6	244.7	226.1	316.5	1969.5	2107.8	2415.7	1538.6
80°	24.6	29.3	51.2	73.8	133.6	107.1	121.0	918.3	948.2	991.4	509.3
82.5°	11.3	13.3	23.3	43.9	75.8	61.8	46.5	212.1	298.6	282.6	129.7
85°	1.3	1.3	8.6	18.0	21.3	16.0	19.3	47.9	60.5	85.1	37.2
87.5°	0.0	0.0	0.7	0.7	1.3	2.0	4.0	6.0	8.6	14.0	9.3
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°	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5	808.5
2.5°	821.2	802.6	785.9	761.3	744.7	726.1	713.5	698.2	692.2	687.5	680.9
5°	839.8	809.9	769.3	724.1	686.9	651.6	619.0	597.8	579.1	576.5	567.2
7.5°	870.4	825.8	757.3	683.5	620.4	561.9	516.0	478.7	460.1	454.1	443.5
10°	910.9	849.8	739.4	626.4	535.3	465.4	413.6	371.7	342.4	331.8	323.8
12.5°	956.2	871.7	710.8	555.9	452.1	372.4	306.5	262.0	243.4	236.7	230.7
15°	1008.0	892.3	665.6	485.4	371.0	273.9	227.4	208.1	200.1	198.1	196.2
17.5°	1057.9	905.6	611.7	412.3	285.3	212.8	190.8	183.5	181.5	179.5	178.2
20°	1114.4	914.9	548.6	343.1	221.4	180.2	169.6	164.2	160.2	156.3	155.6
22.5°	1172.3	914.9	480.1	275.3	185.5	161.6	149.6	139.6	132.3	128.3	127.0
25°	1227.4	902.3	412.3	220.1	163.6	143.6	128.3	117.0	107.1	102.4	101.1
27.5°	1266.7	869.7	353.1	186.2	148.3	127.7	109.0	96.4	88.4	83.8	83.1
30°	1291.3	821.2	298.6	166.2	135.0	111.0	92.4	81.8	75.8	72.5	71.1
32.5°	1309.9	761.3	250.0	152.3	122.3	96.4	80.5	71.8	66.5	63.8	63.2
35°	1347.1	704.8	214.1	139.6	109.0	84.4	70.5	63.8	59.8	56.5	55.9
37.5°	1399.0	657.6	185.5	128.3	96.4	75.1	63.8	57.8	54.5	51.2	50.5
40°	1475.5	627.7	164.2	117.0	85.1	67.8	58.5	53.2	48.5	45.2	44.5
42.5°	1593.2	613.7	150.3	105.7	75.1	61.2	53.9	47.2	42.6	39.2	38.6
45°	1733.5	621.0	138.3	94.4	68.5	56.5	47.9	41.2	36.6	33.2	32.6
47.5°	1883.7	647.0	128.3	83.8	61.8	51.9	42.6	35.2	31.3	27.9	27.3
50°	2040.7	689.5	119.7	73.8	56.5	46.5	36.6	30.6	26.6	23.9	23.3
52.5°	2177.0	747.4	111.0	66.5	51.9	41.2	31.9	26.6	22.6	19.9	19.3
55°	2307.3	801.9	104.4	59.8	46.5	35.9	27.9	22.6	19.3	16.6	16.0
57.5°	2448.9	859.7	96.4	53.9	41.9	31.9	24.6	19.3	16.6	14.0	13.3
60°	2655.0	945.5	84.4	49.2	36.6	27.9	21.3	17.3	14.6	11.3	10.6
62.5°	2952.3	1101.8	71.1	42.6	31.3	23.9	18.0	14.6	12.0	9.3	8.0
65°	3508.1	1367.7	58.5	35.2	25.3	19.9	15.3	12.0	9.3	6.6	6.0
67.5°	3908.4	1436.9	47.2	28.6	20.6	15.3	12.6	9.3	6.6	4.7	4.0
70°	3417.0	1032.0	36.6	23.3	17.3	12.0	10.0	7.3	4.7	3.3	2.7
72.5°	2574.6	674.2	27.3	18.0	13.3	10.0	7.3	6.0	4.0	2.7	2.0
75°	1814.6	389.6	19.9	13.3	9.3	7.3	6.0	4.7	3.3	2.0	2.0
77.5°	930.2	160.9	14.0	9.3	6.6	4.7	4.0	2.7	2.7	2.0	1.3
80°	282.6	53.2	8.0	6.0	4.7	3.3	2.0	2.0	2.0	1.3	0.7
82.5°	64.5	17.3	4.7	4.7	3.3	2.7	2.0	0.7	0.7	0.0	0.0
85°	16.6	5.3	4.0	3.3	3.3	2.7	1.3	0.7	0.0	0.0	0.0
87.5°	6.0	3.3	3.3	3.3	2.7	2.0	1.3	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)