

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: P632605

Luminaire Tested: GWS-SA2D-722-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632605  
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-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6442.3 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

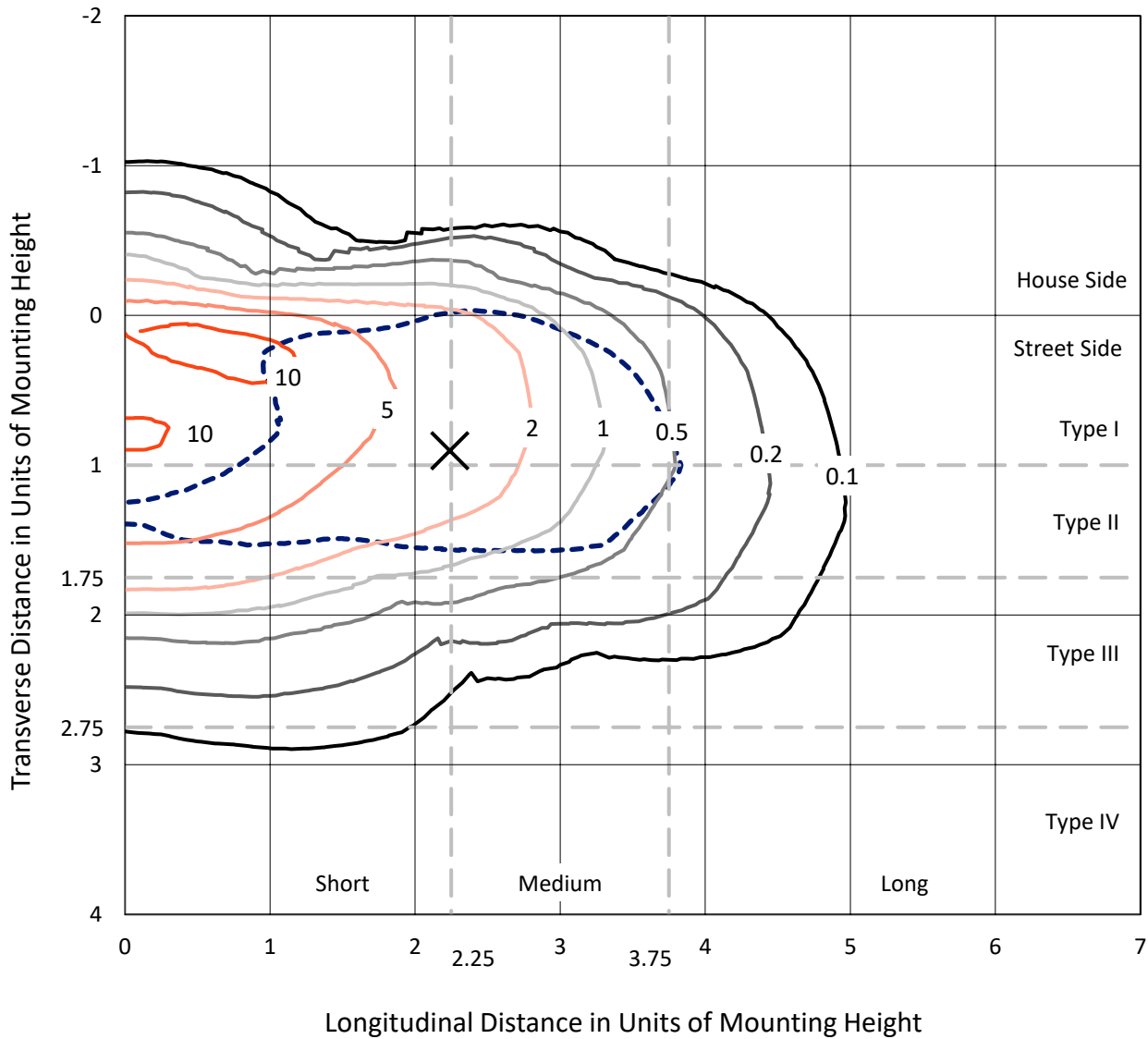
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

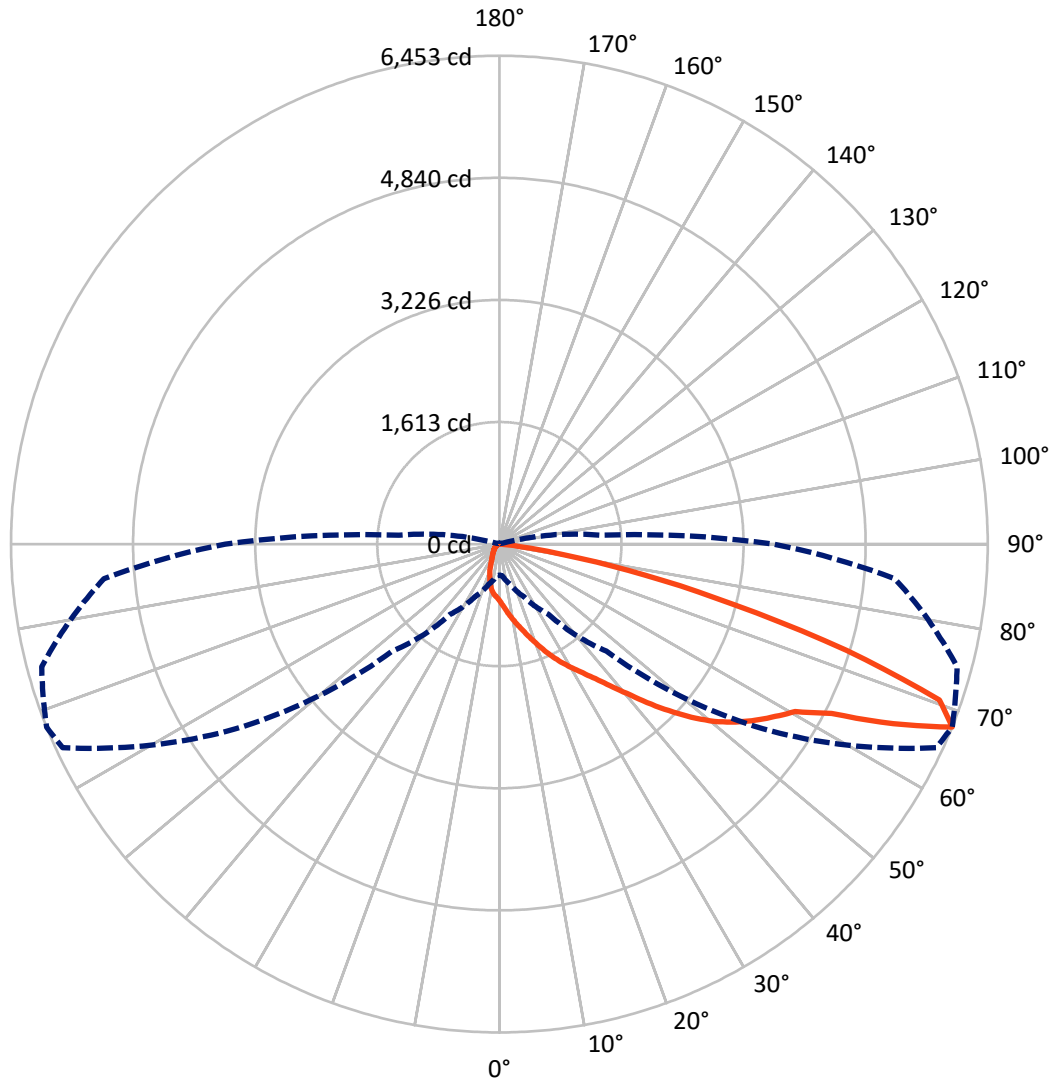
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 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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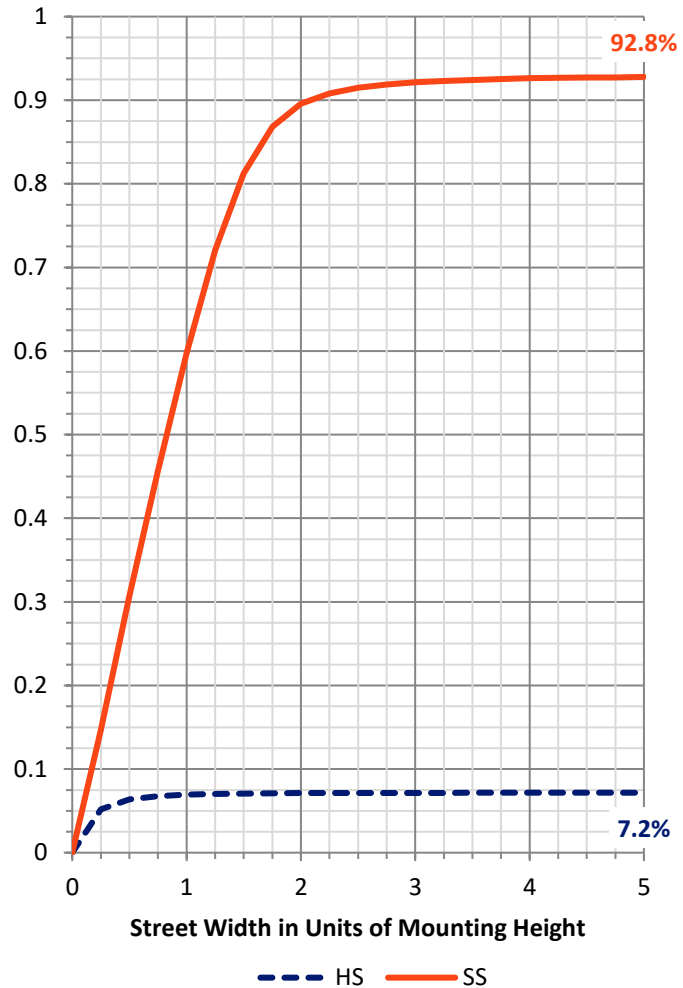
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	465.2	0.0	465.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	5977.1	0.0	5977.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	6442.3	0.0	6442.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.1	1.1
10°-20°	210.0	3.3
20°-30°	360.8	5.6
30°-40°	627.4	9.7
40°-50°	1094.7	17.0
50°-60°	1651.1	25.6
60°-70°	1655.6	25.7
70°-80°	730.5	11.3
80°-90°	39.0	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°	6442.3	100.0
0°-180°	6442.3	100.0

**Coefficient of Utilization**



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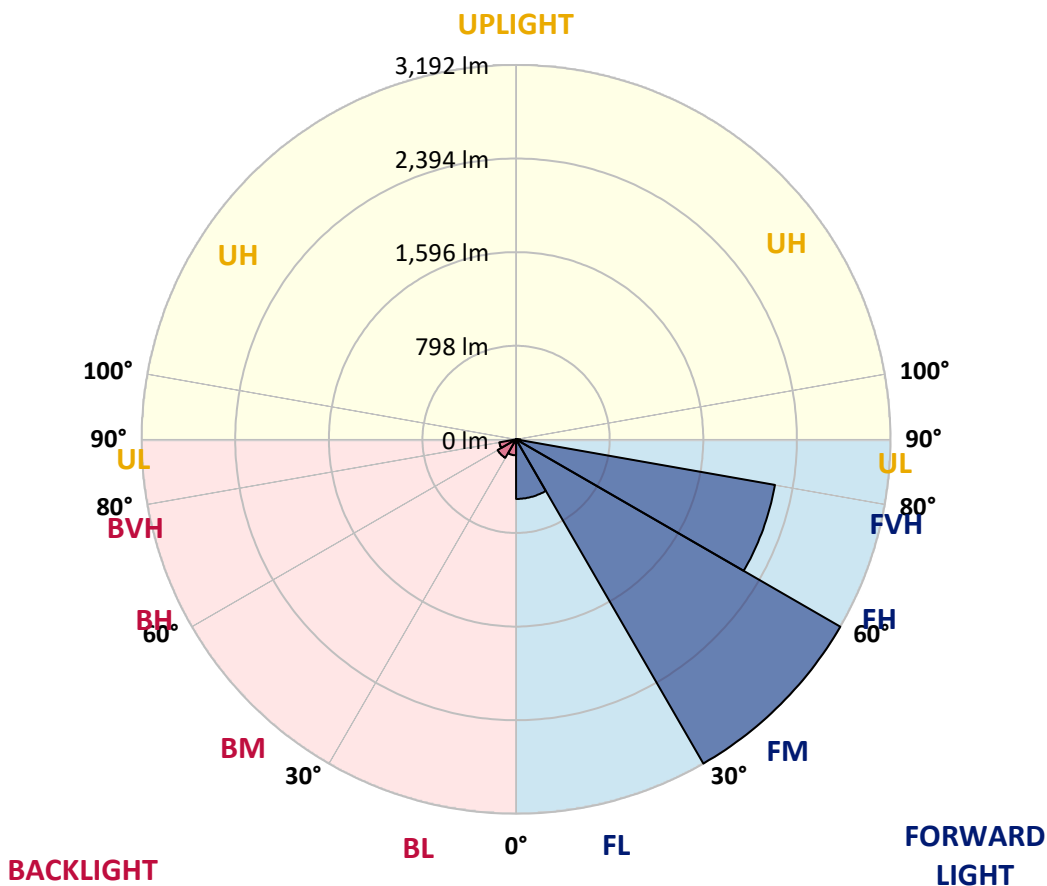
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.8	7.9			
FM (30°-60°)	3191.5	49.5			
FH (60°-80°)	2240.9	34.8			G2/5000
FVH (80°-90°)	36.8	0.6			G1/100
BL (0°-30°)	136.1	2.1	B1/500		
BM (30°-60°)	181.7	2.8	B0/220		
BH (60°-80°)	145.2	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	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°	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7
2.5°	873.0	878.6	873.0	874.3	858.2	850.8	834.8	812.6	807.1	792.9	771.3
5°	979.7	984.6	979.1	977.8	959.3	945.8	919.3	881.0	869.9	842.2	799.7
7.5°	1037.6	1040.7	1042.6	1045.7	1038.9	1027.8	1003.7	956.3	944.5	899.5	839.7
10°	1043.8	1046.3	1055.5	1074.0	1087.6	1094.4	1080.8	1037.0	1018.5	974.8	889.1
12.5°	1026.5	1030.2	1045.0	1075.9	1113.5	1148.0	1156.6	1118.4	1101.8	1045.7	947.0
15°	1003.7	1006.8	1027.2	1069.1	1125.8	1189.3	1225.1	1208.4	1189.9	1131.4	1011.1
17.5°	968.6	972.9	1001.3	1058.0	1131.4	1222.0	1299.1	1304.6	1291.7	1228.2	1082.0
20°	948.9	951.9	977.2	1035.8	1127.7	1246.0	1368.1	1420.5	1406.3	1339.8	1163.4
22.5°	965.5	968.0	984.6	1030.2	1115.3	1259.6	1432.2	1536.4	1528.4	1459.4	1249.1
25°	1053.1	1061.1	1051.2	1059.2	1120.9	1267.0	1484.0	1652.3	1654.2	1584.5	1337.9
27.5°	1230.6	1220.1	1196.7	1156.6	1164.0	1286.7	1528.4	1761.5	1777.5	1706.6	1416.8
30°	1411.3	1405.1	1390.9	1328.7	1276.9	1330.5	1566.0	1873.1	1898.3	1826.8	1487.1
32.5°	1614.1	1620.3	1595.0	1520.4	1432.2	1419.3	1604.9	1979.1	2026.6	1963.1	1569.7
35°	1856.4	1858.3	1808.3	1725.7	1625.8	1566.0	1674.5	2096.3	2183.8	2136.9	1680.1
37.5°	2092.6	2103.7	2076.5	1946.4	1857.7	1748.5	1789.8	2246.7	2370.0	2351.5	1818.8
40°	2301.6	2318.8	2310.2	2184.4	2067.9	1976.0	1968.6	2423.0	2595.0	2616.0	2001.9
42.5°	2468.0	2479.1	2485.9	2396.5	2293.6	2241.8	2189.4	2627.7	2860.8	2946.5	2226.3
45°	2643.7	2647.4	2661.6	2601.2	2511.2	2515.5	2450.2	2876.2	3140.7	3312.7	2484.1
47.5°	2867.6	2879.9	2873.1	2809.6	2728.2	2776.9	2719.6	3132.1	3416.9	3703.6	2747.9
50°	3140.1	3153.0	3146.9	3072.9	2982.2	3002.6	2966.8	3380.5	3683.2	4072.3	2967.4
52.5°	3280.6	3291.1	3367.6	3400.9	3353.4	3223.9	3177.7	3653.7	3908.3	4375.6	3169.0
55°	3212.8	3220.2	3386.7	3527.3	3701.1	3571.7	3389.8	3864.5	4106.8	4612.4	3318.9
57.5°	2931.7	2971.8	3198.0	3436.0	3801.6	3915.1	3733.8	4093.9	4297.9	4777.0	3466.2
60°	2355.2	2353.4	2677.7	3104.9	3605.6	4009.4	4219.6	4404.0	4489.7	4903.4	3663.5
62.5°	1301.5	1313.2	1744.8	2307.7	3060.5	3765.2	4584.0	4939.8	4926.8	5124.1	3972.4
65°	648.0	671.4	905.7	1321.9	2036.5	3111.7	4646.9	5757.3	5720.3	5643.9	4610.5
67.5°	411.2	420.5	550.0	768.2	1132.0	2000.1	4255.4	6367.1	6452.8	6260.4	5243.7
70°	266.3	281.8	382.3	525.3	683.1	1030.9	3117.3	5971.9	6168.5	6192.6	4849.1
72.5°	144.9	156.0	244.2	374.9	493.2	515.4	1751.0	4481.7	4798.0	5253.0	3793.6
75°	82.6	90.6	133.8	254.6	361.9	313.8	776.2	3000.1	3201.7	3754.1	2718.4
77.5°	49.9	56.7	75.2	123.9	226.9	209.6	293.5	1826.2	1954.5	2239.9	1426.7
80°	22.8	27.1	47.5	68.4	123.9	99.3	112.2	851.4	879.2	919.3	472.3
82.5°	10.5	12.3	21.6	40.7	70.3	57.3	43.2	196.7	276.8	262.0	120.2
85°	1.2	1.2	8.0	16.6	19.7	14.8	17.9	44.4	56.1	78.9	34.5
87.5°	0.0	0.0	0.6	0.6	1.2	1.8	3.7	5.5	8.0	12.9	8.6
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°	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7	749.7
2.5°	761.4	744.2	728.8	705.9	690.5	673.3	661.6	647.4	641.8	637.5	631.3
5°	778.7	751.0	713.3	671.4	636.9	604.2	574.0	554.3	537.0	534.5	525.9
7.5°	807.1	765.8	702.2	633.8	575.2	521.0	478.4	443.9	426.6	421.1	411.2
10°	844.7	787.9	685.6	580.8	496.3	431.6	383.5	344.6	317.5	307.7	300.3
12.5°	886.6	808.3	659.1	515.4	419.3	345.3	284.2	242.9	225.7	219.5	213.9
15°	934.7	827.4	617.2	450.1	344.0	254.0	210.9	193.0	185.6	183.7	181.9
17.5°	980.9	839.7	567.2	382.3	264.5	197.3	176.9	170.2	168.3	166.5	165.2
20°	1033.3	848.4	508.7	318.1	205.3	167.1	157.2	152.3	148.6	144.9	144.3
22.5°	1087.0	848.4	445.1	255.3	172.0	149.8	138.7	129.5	122.7	119.0	117.8
25°	1138.1	836.7	382.3	204.1	151.7	133.2	119.0	108.5	99.3	94.9	93.7
27.5°	1174.5	806.4	327.4	172.6	137.5	118.4	101.1	89.4	82.0	77.7	77.1
30°	1197.3	761.4	276.8	154.1	125.2	103.0	85.7	75.8	70.3	67.2	66.0
32.5°	1214.6	705.9	231.8	141.2	113.4	89.4	74.6	66.6	61.7	59.2	58.6
35°	1249.1	653.5	198.5	129.5	101.1	78.3	65.4	59.2	55.5	52.4	51.8
37.5°	1297.2	609.8	172.0	119.0	89.4	69.7	59.2	53.6	50.6	47.5	46.9
40°	1368.1	582.0	152.3	108.5	78.9	62.9	54.3	49.3	45.0	41.9	41.3
42.5°	1477.2	569.1	139.3	98.0	69.7	56.7	49.9	43.8	39.5	36.4	35.8
45°	1607.3	575.9	128.2	87.5	63.5	52.4	44.4	38.2	33.9	30.8	30.2
47.5°	1746.7	599.9	119.0	77.7	57.3	48.1	39.5	32.7	29.0	25.9	25.3
50°	1892.2	639.4	111.0	68.4	52.4	43.2	33.9	28.4	24.7	22.2	21.6
52.5°	2018.6	693.0	103.0	61.7	48.1	38.2	29.6	24.7	21.0	18.5	17.9
55°	2139.4	743.6	96.8	55.5	43.2	33.3	25.9	21.0	17.9	15.4	14.8
57.5°	2270.7	797.2	89.4	49.9	38.8	29.6	22.8	17.9	15.4	12.9	12.3
60°	2461.9	876.7	78.3	45.6	33.9	25.9	19.7	16.0	13.6	10.5	9.9
62.5°	2737.5	1021.6	66.0	39.5	29.0	22.2	16.6	13.6	11.1	8.6	7.4
65°	3252.9	1268.2	54.3	32.7	23.4	18.5	14.2	11.1	8.6	6.2	5.5
67.5°	3624.1	1332.4	43.8	26.5	19.1	14.2	11.7	8.6	6.2	4.3	3.7
70°	3168.4	956.9	33.9	21.6	16.0	11.1	9.2	6.8	4.3	3.1	2.5
72.5°	2387.3	625.2	25.3	16.6	12.3	9.2	6.8	5.5	3.7	2.5	1.8
75°	1682.6	361.3	18.5	12.3	8.6	6.8	5.5	4.3	3.1	1.8	1.8
77.5°	862.5	149.2	12.9	8.6	6.2	4.3	3.7	2.5	2.5	1.8	1.2
80°	262.0	49.3	7.4	5.5	4.3	3.1	1.8	1.8	1.8	1.2	0.6
82.5°	59.8	16.0	4.3	4.3	3.1	2.5	1.8	0.6	0.6	0.0	0.0
85°	15.4	4.9	3.7	3.1	3.1	2.5	1.2	0.6	0.0	0.0	0.0
87.5°	5.5	3.1	3.1	3.1	2.5	1.8	1.2	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)