

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: P639048

Luminaire Tested: GWS-SA5B-722-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-722-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

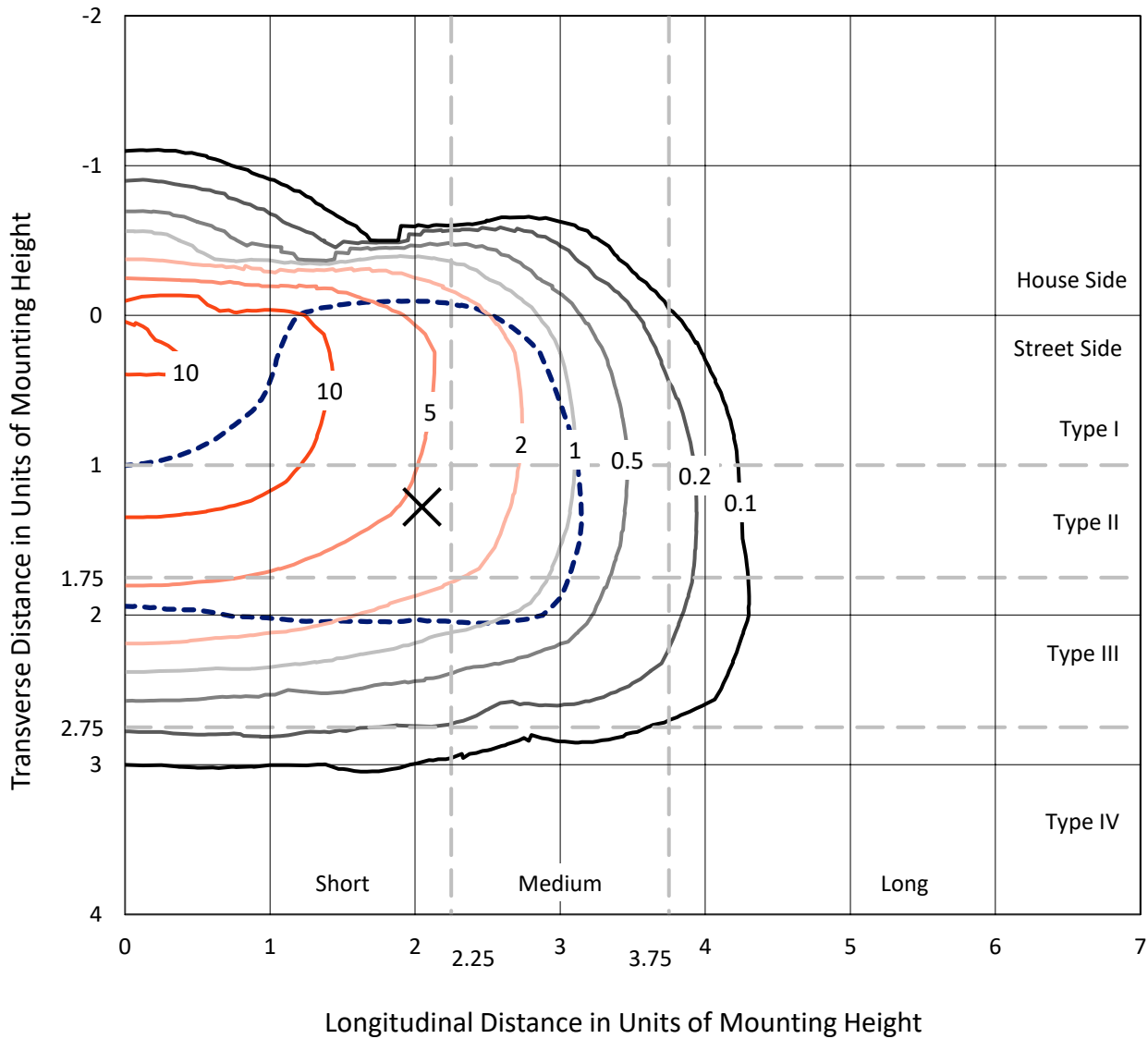
Lumens per Lamp: N/A  
Luminaire Lumens: 9601.8 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

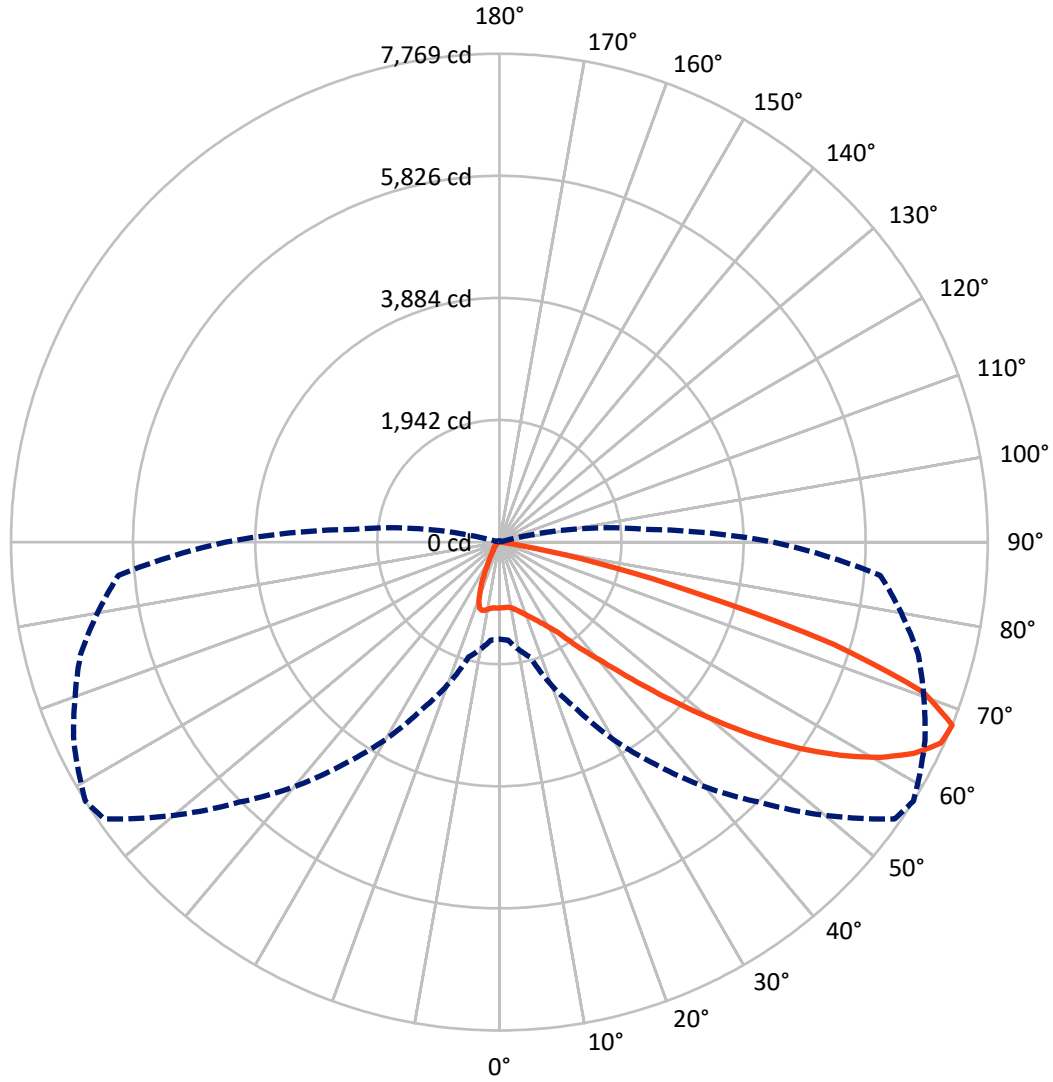
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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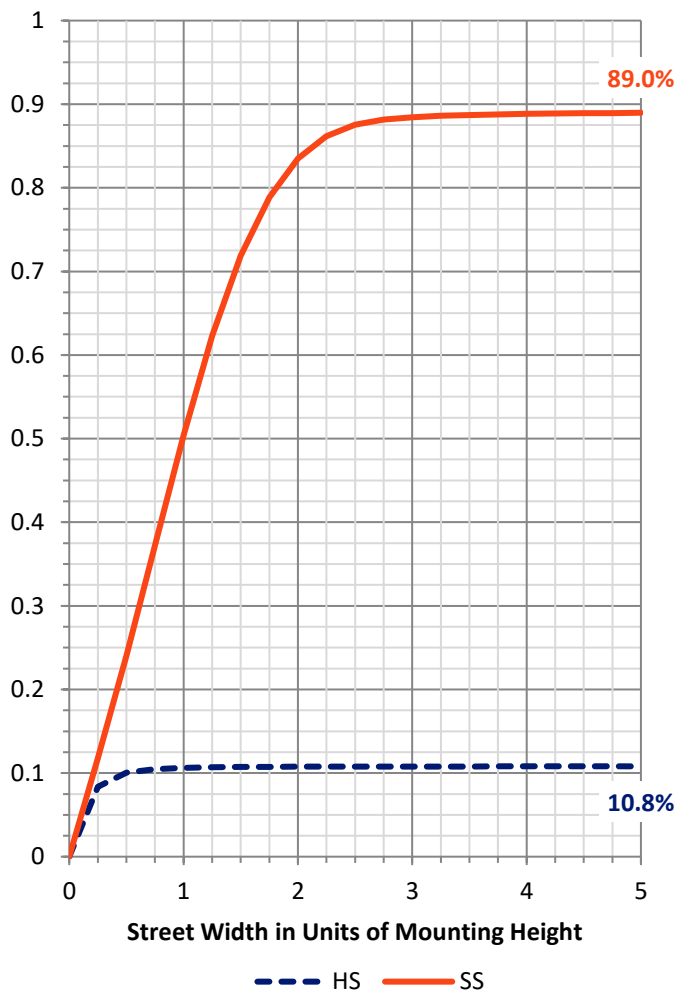
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1047.5	0.0	1047.5
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	8554.3	0.0	8554.3
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	9601.8	0.0	9601.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.3	1.0
10°-20°	276.0	2.9
20°-30°	481.7	5.0
30°-40°	860.3	9.0
40°-50°	1572.4	16.4
50°-60°	2615.1	27.2
60°-70°	2840.4	29.6
70°-80°	834.0	8.7
80°-90°	23.8	0.2
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°	9601.8	100.0
0°-180°	9601.8	100.0

**Coefficient of Utilization**



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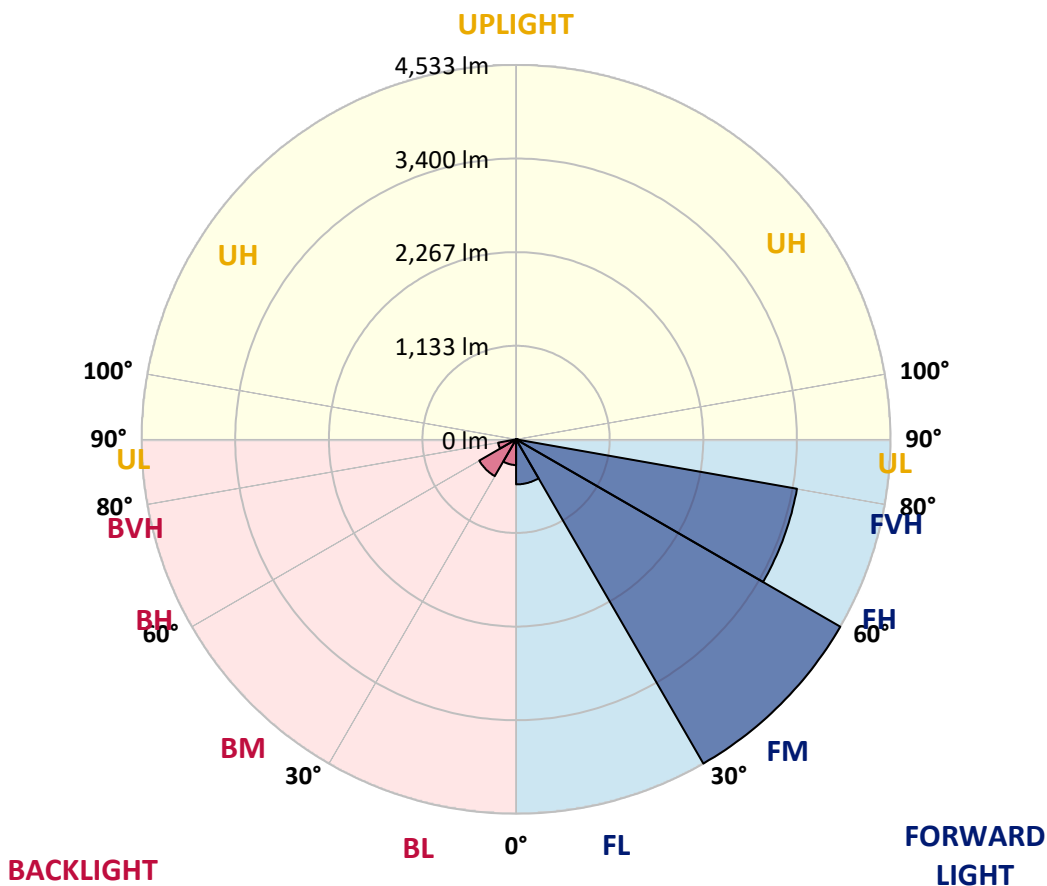
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.2	5.7			
FM (30°-60°)	4533.2	47.2			
FH (60°-80°)	3453.3	36.0			G2/5000
FVH (80°-90°)	22.6	0.2			G1/100
BL (0°-30°)	310.7	3.2	B1/500		
BM (30°-60°)	514.5	5.4	B1/1000		
BH (60°-80°)	221.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3
2.5°	1026.6	1024.7	1024.7	1032.2	1033.2	1036.9	1045.4	1046.3	1051.0	1049.1	1042.6
5°	973.2	974.1	979.7	992.9	1004.1	1018.2	1038.8	1043.5	1053.8	1059.4	1055.7
7.5°	923.5	924.4	932.9	953.5	975.1	1003.2	1036.9	1046.3	1066.9	1081.9	1082.9
10°	904.7	903.8	912.2	935.7	963.8	1003.2	1051.9	1064.1	1095.1	1121.3	1126.0
12.5°	910.4	909.4	917.9	939.4	970.4	1020.1	1078.2	1095.1	1134.4	1174.8	1183.2
15°	932.9	931.9	937.6	955.4	989.1	1040.7	1111.9	1137.3	1186.9	1235.7	1248.8
17.5°	1000.4	995.7	990.1	991.9	1011.6	1065.1	1155.1	1186.0	1247.9	1306.0	1317.3
20°	1120.4	1108.2	1093.2	1073.5	1064.1	1100.7	1204.8	1240.4	1315.4	1382.0	1383.8
22.5°	1301.3	1296.6	1261.9	1204.8	1164.4	1165.4	1262.9	1304.1	1396.0	1469.1	1458.8
25°	1553.5	1550.7	1497.3	1403.5	1298.5	1262.9	1337.0	1379.1	1491.6	1569.5	1536.6
27.5°	1866.7	1847.0	1784.2	1657.6	1501.0	1389.5	1430.7	1468.2	1592.9	1666.0	1604.2
30°	2139.5	2140.4	2081.4	1949.2	1772.9	1579.8	1545.1	1577.9	1685.7	1762.6	1687.6
32.5°	2402.0	2410.4	2345.8	2226.7	2033.6	1828.2	1709.2	1714.8	1804.8	1888.2	1797.3
35°	2645.8	2652.3	2607.3	2506.1	2326.1	2087.9	1937.9	1935.1	1983.9	2069.2	1950.1
37.5°	2918.6	2925.2	2881.1	2790.2	2621.4	2385.1	2197.6	2193.9	2213.6	2282.9	2147.0
40°	3209.2	3221.4	3172.7	3095.8	2934.5	2734.8	2499.5	2465.8	2446.1	2527.6	2402.0
42.5°	3503.6	3522.4	3505.5	3428.6	3290.8	3125.8	2891.4	2838.9	2796.7	2898.9	2765.8
45°	3869.3	3891.8	3884.3	3825.2	3718.3	3584.3	3363.0	3302.1	3282.4	3377.1	3218.6
47.5°	4220.9	4245.2	4272.4	4259.3	4183.4	4121.5	3875.8	3841.2	3835.5	3936.8	3691.1
50°	4482.4	4504.9	4609.0	4684.0	4735.6	4722.5	4509.6	4458.1	4449.6	4514.3	4189.9
52.5°	4670.0	4691.5	4835.0	5069.3	5258.7	5361.9	5147.2	5135.9	5090.0	5067.5	4656.8
55°	4815.3	4845.3	4996.2	5350.6	5732.2	5961.0	5826.9	5786.6	5668.4	5539.1	5090.0
57.5°	4844.3	4856.5	5069.3	5547.5	6099.7	6470.1	6470.1	6399.7	6171.9	5992.8	5590.6
60°	4583.7	4621.2	4909.0	5531.6	6257.2	6802.9	7003.5	6954.8	6647.3	6426.9	6072.5
62.5°	4005.2	4047.4	4398.1	5150.0	6099.7	6871.3	7407.6	7400.1	7053.2	6786.0	6471.9
65°	3071.4	3102.4	3408.0	4308.1	5434.1	6607.9	7696.4	7717.0	7373.9	7023.2	6609.7
67.5°	1543.2	1564.8	1894.8	2943.0	4307.1	5849.4	7676.7	7768.6	7471.4	6897.6	6083.8
70°	539.1	560.7	716.3	1262.9	2621.4	4466.5	7012.9	7162.9	6898.5	5887.8	4488.1
72.5°	184.7	195.0	297.2	468.8	1020.1	2647.7	5332.8	5558.8	5085.3	3952.7	2579.2
75°	105.0	111.6	159.4	254.1	427.5	871.0	3025.5	3164.2	2964.5	2154.5	1061.3
77.5°	71.3	76.9	99.4	144.4	236.3	280.3	1233.8	1553.5	1354.8	703.2	271.0
80°	42.2	45.9	60.9	85.3	120.9	108.8	264.4	351.6	452.8	210.0	81.6
82.5°	19.7	22.5	39.4	56.3	60.9	45.9	77.8	94.7	127.5	103.1	33.8
85°	0.0	0.0	13.1	23.4	22.5	13.1	21.6	23.4	34.7	51.6	13.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	1.9	2.8	5.6	10.3	5.6
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°	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3	1046.3
2.5°	1050.1	1043.5	1051.0	1047.2	1051.0	1050.1	1042.6	1037.9	1037.9	1029.4	1026.6
5°	1063.2	1056.6	1058.5	1050.1	1048.2	1043.5	1034.1	1030.4	1030.4	1021.9	1019.1
7.5°	1092.2	1081.9	1080.1	1063.2	1055.7	1042.6	1025.7	1019.1	1018.2	1009.7	1006.9
10°	1138.2	1126.0	1117.6	1096.0	1074.4	1048.2	1012.6	982.6	965.7	943.2	941.3
12.5°	1194.4	1179.4	1166.3	1133.5	1097.9	1038.8	933.8	824.1	756.6	703.2	706.9
15°	1257.3	1243.2	1222.6	1172.9	1099.7	946.0	726.6	557.8	475.3	431.3	429.4
17.5°	1325.7	1305.1	1271.3	1203.8	1040.7	722.9	472.5	333.8	290.6	275.6	271.9
20°	1389.5	1364.1	1321.9	1210.4	870.0	489.4	295.3	258.8	251.3	246.6	246.6
22.5°	1457.0	1425.1	1362.3	1159.8	646.9	313.1	251.3	242.8	237.2	230.6	229.7
25°	1525.4	1484.1	1398.8	1027.6	423.8	246.6	235.3	226.0	215.6	205.3	202.5
27.5°	1583.5	1530.1	1427.0	830.7	271.9	222.2	214.7	198.8	184.7	173.4	171.6
30°	1652.9	1584.5	1439.1	607.5	213.8	195.9	184.7	167.8	150.9	139.7	135.9
32.5°	1745.7	1670.7	1420.4	395.6	189.4	172.5	154.7	135.0	118.1	105.9	104.1
35°	1890.1	1801.0	1334.1	252.2	171.6	149.1	127.5	106.9	92.8	83.4	81.6
37.5°	2066.4	1983.9	1192.6	189.4	153.8	129.4	104.1	84.4	74.1	67.5	65.6
40°	2327.9	2212.6	1017.2	165.9	135.9	109.7	85.3	69.4	61.9	56.3	54.4
42.5°	2667.3	2482.6	815.7	150.9	119.1	91.9	69.4	57.2	50.6	46.9	45.9
45°	3063.9	2746.1	602.8	135.9	103.1	75.9	57.2	46.9	42.2	39.4	38.4
47.5°	3469.9	2976.7	416.3	120.0	88.1	62.8	47.8	40.3	36.6	32.8	31.9
50°	3903.0	3171.7	284.1	104.1	75.0	51.6	41.3	36.6	31.9	29.1	28.1
52.5°	4220.9	3243.9	197.8	90.0	63.8	44.1	36.6	32.8	29.1	25.3	24.4
55°	4514.3	3242.1	150.0	75.9	54.4	38.4	32.8	29.1	25.3	22.5	21.6
57.5°	4806.8	3216.7	118.1	64.7	46.9	34.7	29.1	25.3	23.4	19.7	18.8
60°	4996.2	3121.1	91.9	54.4	40.3	30.0	25.3	22.5	19.7	16.9	15.9
62.5°	5096.5	2988.0	70.3	43.1	32.8	26.3	22.5	19.7	16.9	14.1	13.1
65°	4960.6	2751.7	55.3	33.8	25.3	22.5	18.8	15.9	13.1	10.3	9.4
67.5°	4357.7	2320.4	43.1	27.2	19.7	16.9	15.9	13.1	9.4	7.5	6.6
70°	3079.9	1589.2	33.8	20.6	15.0	13.1	12.2	10.3	7.5	5.6	4.7
72.5°	1690.4	801.6	24.4	15.0	11.3	10.3	9.4	8.4	6.6	4.7	4.7
75°	650.7	220.3	17.8	10.3	7.5	7.5	6.6	6.6	5.6	3.8	3.8
77.5°	169.7	65.6	11.3	6.6	4.7	4.7	4.7	3.8	3.8	2.8	2.8
80°	54.4	21.6	6.6	4.7	3.8	2.8	2.8	1.9	2.8	1.9	1.9
82.5°	17.8	7.5	3.8	3.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
85°	6.6	3.8	2.8	1.9	1.9	1.9	0.9	0.0	0.0	0.0	0.0
87.5°	3.8	1.9	1.9	1.9	1.9	0.9	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)