

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: P633438

Luminaire Tested: GWS-SA2E-760-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633438  
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-SA2E-760-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

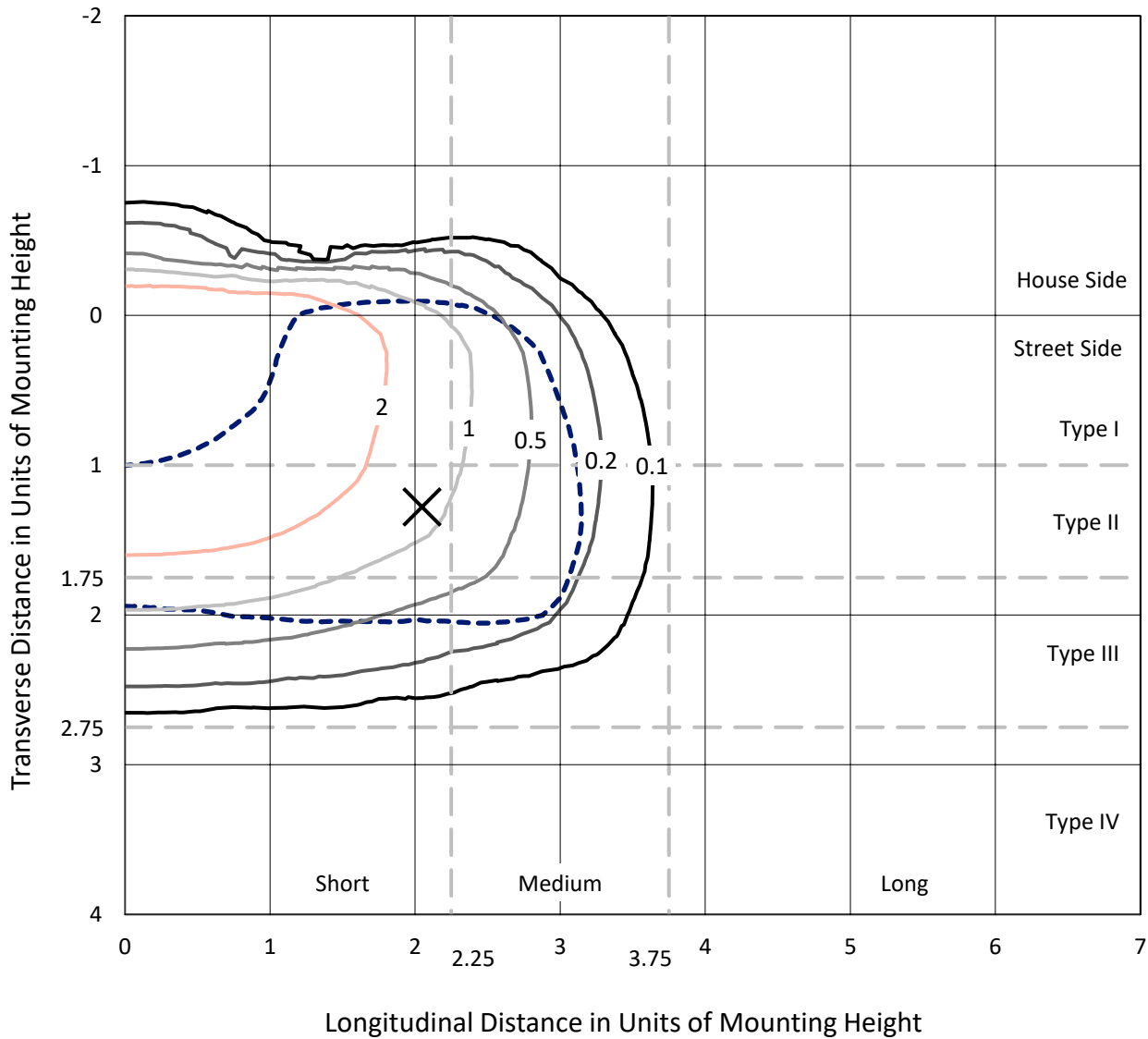
Lumens per Lamp: N/A  
Luminaire Lumens: 10807.3 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

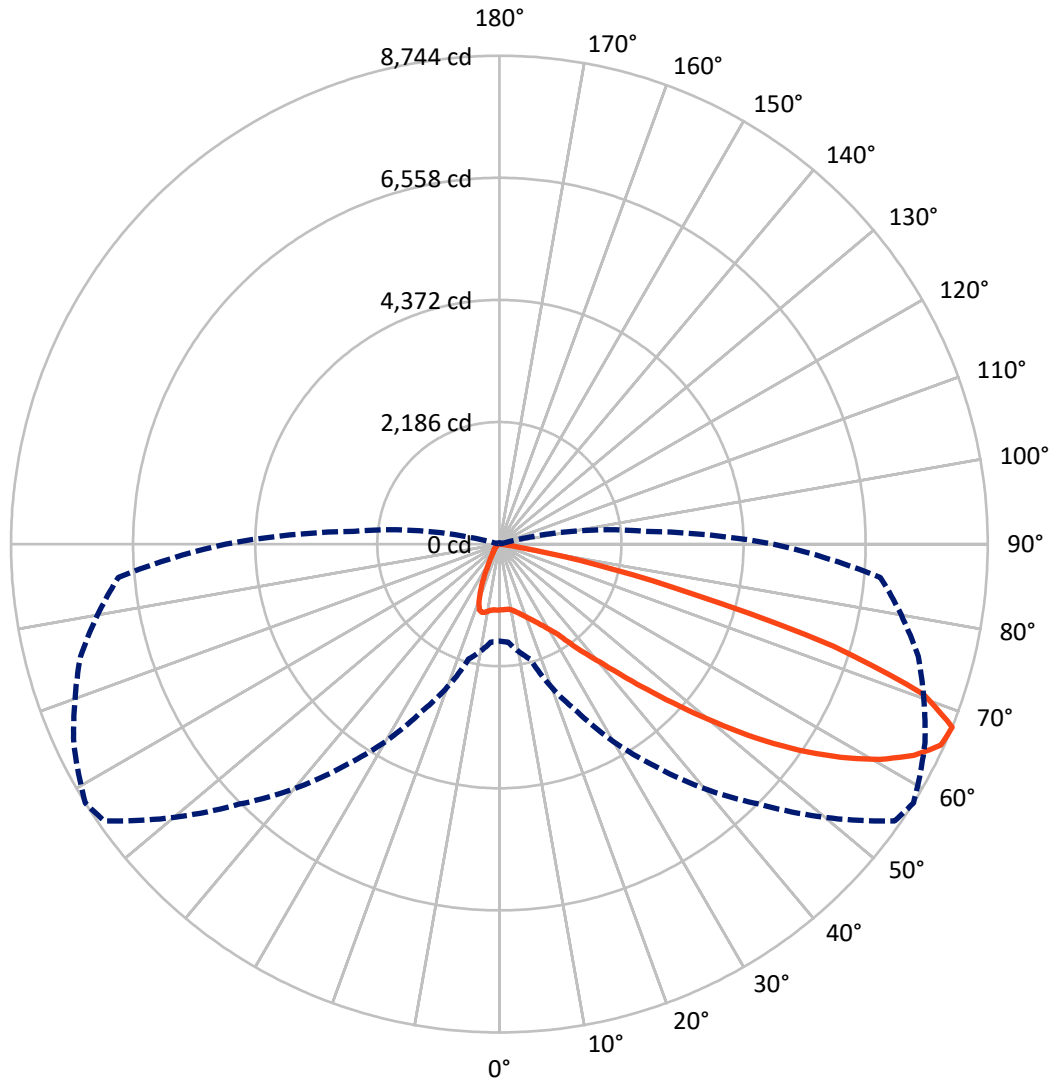
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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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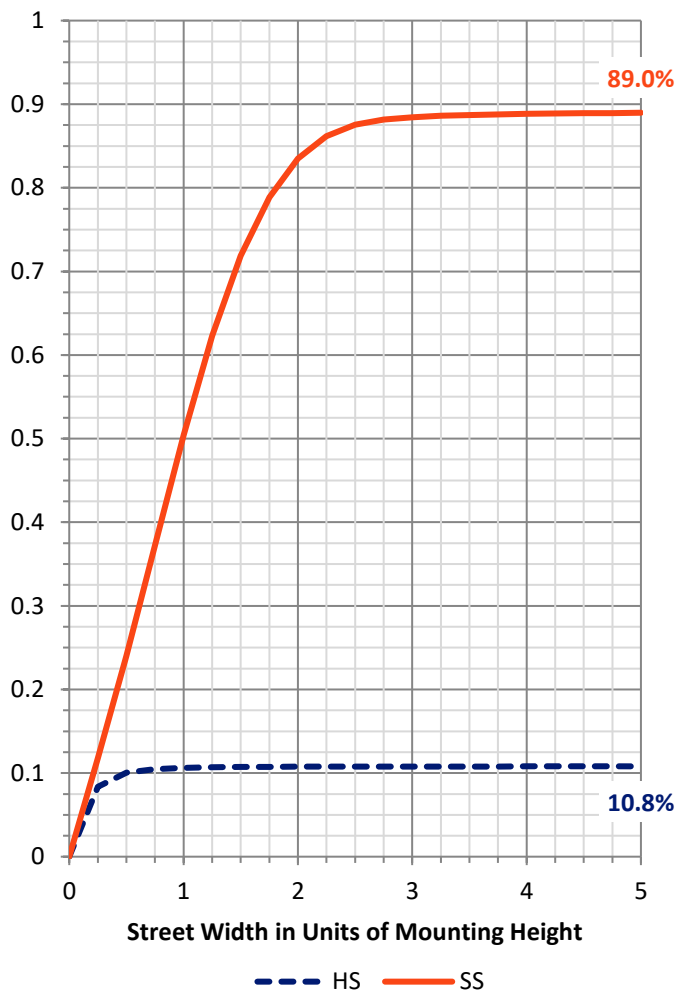
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1179.1	0.0	1179.1
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	9628.2	0.0	9628.2
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	10807.3	0.0	10807.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.6	1.0
10°-20°	310.6	2.9
20°-30°	542.2	5.0
30°-40°	968.3	9.0
40°-50°	1769.8	16.4
50°-60°	2943.4	27.2
60°-70°	3197.0	29.6
70°-80°	938.7	8.7
80°-90°	26.7	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°	10807.3	100.0
0°-180°	10807.3	100.0

**Coefficient of Utilization**



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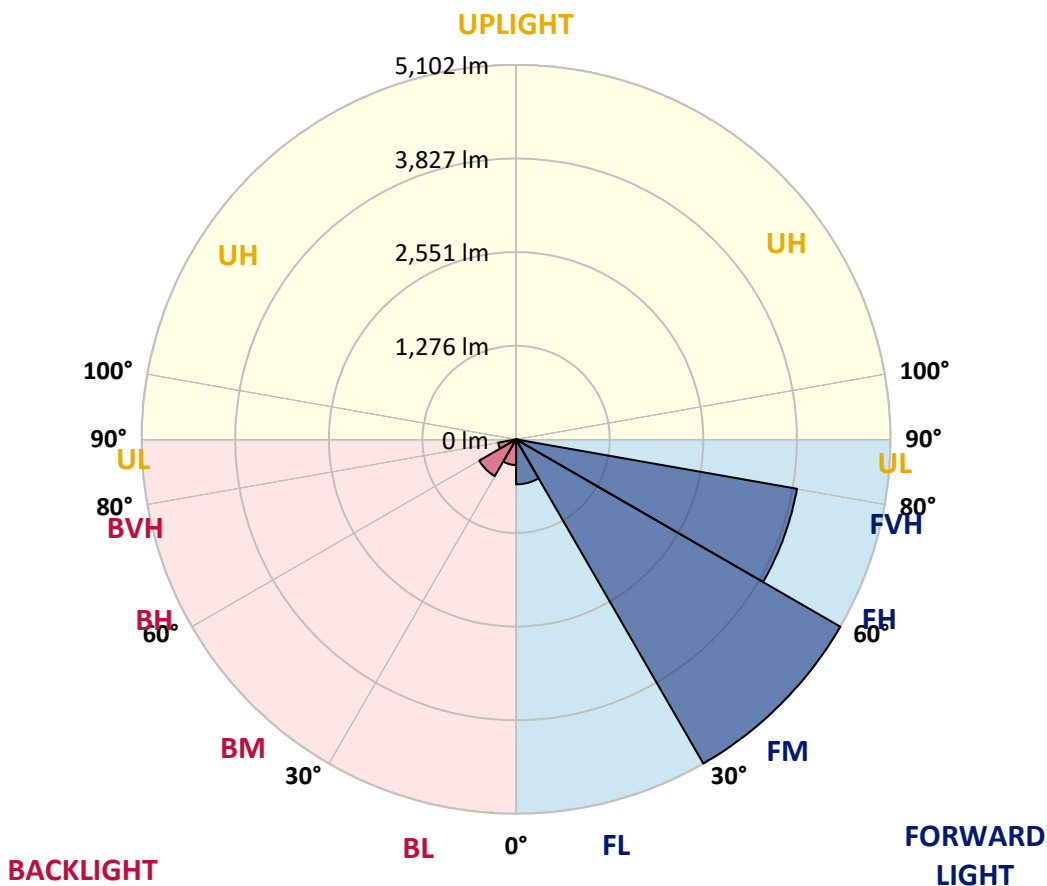
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.7	5.7			
FM (30°-60°)	5102.4	47.2			
FH (60°-80°)	3886.8	36.0			G2/5000
FVH (80°-90°)	25.4	0.2			G1/100
BL (0°-30°)	349.7	3.2	B1/500		
BM (30°-60°)	579.1	5.4	B1/1000		
BH (60°-80°)	248.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7
2.5°	1155.5	1153.4	1153.4	1161.8	1162.9	1167.1	1176.6	1177.7	1182.9	1180.8	1173.5
5°	1095.4	1096.4	1102.7	1117.5	1130.2	1146.0	1169.2	1174.5	1186.1	1192.4	1188.2
7.5°	1039.4	1040.5	1050.0	1073.2	1097.5	1129.1	1167.1	1177.7	1200.9	1217.8	1218.8
10°	1018.3	1017.3	1026.8	1053.2	1084.8	1129.1	1184.0	1197.7	1232.5	1262.1	1267.4
12.5°	1024.7	1023.6	1033.1	1057.4	1092.2	1148.1	1213.6	1232.5	1276.9	1322.2	1331.7
15°	1050.0	1048.9	1055.3	1075.3	1113.3	1171.3	1251.5	1280.0	1336.0	1390.8	1405.6
17.5°	1126.0	1120.7	1114.4	1116.5	1138.6	1198.8	1300.1	1334.9	1404.6	1470.0	1482.6
20°	1261.0	1247.3	1230.4	1208.3	1197.7	1238.9	1356.0	1396.1	1480.5	1555.5	1557.6
22.5°	1464.7	1459.4	1420.4	1356.0	1310.6	1311.7	1421.4	1467.9	1571.3	1653.6	1642.0
25°	1748.6	1745.4	1685.3	1579.7	1461.5	1421.4	1504.8	1552.3	1678.9	1766.5	1729.6
27.5°	2101.0	2078.9	2008.2	1865.7	1689.5	1563.9	1610.3	1652.5	1792.9	1875.2	1805.6
30°	2408.1	2409.2	2342.7	2193.9	1995.5	1778.1	1739.1	1776.0	1897.4	1983.9	1899.5
32.5°	2703.6	2713.1	2640.3	2506.2	2288.9	2057.8	1923.7	1930.1	2031.4	2125.3	2022.9
35°	2978.0	2985.3	2934.7	2820.7	2618.1	2350.1	2181.2	2178.1	2232.9	2329.0	2194.9
37.5°	3285.0	3292.4	3242.8	3140.5	2950.5	2684.6	2473.5	2469.3	2491.5	2569.6	2416.6
40°	3612.2	3625.9	3571.0	3484.5	3303.0	3078.2	2813.3	2775.3	2753.2	2845.0	2703.6
42.5°	3943.5	3964.6	3945.6	3859.1	3704.0	3518.2	3254.4	3195.3	3147.8	3262.9	3113.0
45°	4355.1	4380.4	4372.0	4305.5	4185.2	4034.3	3785.2	3716.6	3694.5	3801.1	3622.7
47.5°	4750.8	4778.2	4808.8	4794.1	4708.6	4638.9	4362.5	4323.4	4317.1	4431.0	4154.6
50°	5045.2	5070.5	5187.7	5272.1	5330.1	5315.4	5075.8	5017.8	5008.3	5081.1	4716.0
52.5°	5256.3	5280.5	5442.0	5705.8	5919.0	6035.0	5793.4	5780.7	5729.0	5703.7	5241.5
55°	5419.8	5453.6	5623.5	6022.4	6451.9	6709.4	6558.5	6513.1	6380.1	6234.5	5729.0
57.5°	5452.5	5466.3	5705.8	6244.0	6865.5	7282.4	7282.4	7203.2	6946.8	6745.2	6292.5
60°	5159.2	5201.4	5525.4	6226.0	7042.8	7657.0	7882.8	7827.9	7481.8	7233.8	6834.9
62.5°	4508.1	4555.6	4950.2	5796.6	6865.5	7734.0	8337.6	8329.2	7938.7	7638.0	7284.5
65°	3457.0	3491.9	3835.9	4848.9	6116.3	7437.5	8662.6	8685.9	8299.6	7905.0	7439.6
67.5°	1737.0	1761.2	2132.7	3312.5	4847.9	6583.8	8640.5	8743.9	8409.4	7763.6	6847.6
70°	606.8	631.0	806.2	1421.4	2950.5	5027.3	7893.4	8062.2	7764.6	6627.0	5051.5
72.5°	207.9	219.5	334.5	527.6	1148.1	2980.1	6002.3	6256.7	5723.7	4449.0	2903.0
75°	118.2	125.6	179.4	286.0	481.2	980.3	3405.3	3561.5	3336.7	2425.0	1194.6
77.5°	80.2	86.5	111.9	162.5	265.9	315.5	1388.7	1748.6	1524.9	791.4	305.0
80°	47.5	51.7	68.6	96.0	136.1	122.4	297.6	395.7	509.7	236.4	91.8
82.5°	22.2	25.3	44.3	63.3	68.6	51.7	87.6	106.6	143.5	116.1	38.0
85°	0.0	0.0	14.8	26.4	25.3	14.8	24.3	26.4	39.0	58.0	14.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2	6.3	11.6	6.3
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°	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7	1177.7
2.5°	1181.9	1174.5	1182.9	1178.7	1182.9	1181.9	1173.5	1168.2	1168.2	1158.7	1155.5
5°	1196.7	1189.3	1191.4	1181.9	1179.8	1174.5	1164.0	1159.7	1159.7	1150.2	1147.1
7.5°	1229.4	1217.8	1215.7	1196.7	1188.2	1173.5	1154.5	1147.1	1146.0	1136.5	1133.4
10°	1281.1	1267.4	1257.9	1233.6	1209.3	1179.8	1139.7	1105.9	1086.9	1061.6	1059.5
12.5°	1344.4	1327.5	1312.7	1275.8	1235.7	1169.2	1051.0	927.6	851.6	791.4	795.7
15°	1415.1	1399.3	1376.1	1320.1	1237.8	1064.8	817.8	627.9	535.0	485.4	483.3
17.5°	1492.1	1468.9	1430.9	1355.0	1171.3	813.6	531.9	375.7	327.1	310.2	306.0
20°	1563.9	1535.4	1487.9	1362.3	979.3	550.8	332.4	291.3	282.8	277.5	277.5
22.5°	1639.9	1604.0	1533.3	1305.4	728.1	352.5	282.8	273.3	267.0	259.6	258.5
25°	1716.9	1670.5	1574.5	1156.6	477.0	277.5	264.9	254.3	242.7	231.1	227.9
27.5°	1782.3	1722.2	1606.1	935.0	306.0	250.1	241.7	223.7	207.9	195.2	193.1
30°	1860.4	1783.4	1619.8	683.8	240.6	220.5	207.9	188.9	169.9	157.2	153.0
32.5°	1964.9	1880.5	1598.7	445.3	213.2	194.2	174.1	152.0	133.0	119.2	117.1
35°	2127.4	2027.2	1501.6	283.9	193.1	167.8	143.5	120.3	104.5	93.9	91.8
37.5°	2325.8	2232.9	1342.3	213.2	173.1	145.6	117.1	95.0	83.4	76.0	73.9
40°	2620.2	2490.4	1145.0	186.8	153.0	123.5	96.0	78.1	69.6	63.3	61.2
42.5°	3002.2	2794.3	918.1	169.9	134.0	103.4	78.1	64.4	57.0	52.8	51.7
45°	3448.6	3090.9	678.5	153.0	116.1	85.5	64.4	52.8	47.5	44.3	43.3
47.5°	3905.5	3350.5	468.5	135.1	99.2	70.7	53.8	45.4	41.2	36.9	35.9
50°	4393.1	3570.0	319.7	117.1	84.4	58.0	46.4	41.2	35.9	32.7	31.7
52.5°	4750.8	3651.2	222.7	101.3	71.8	49.6	41.2	36.9	32.7	28.5	27.4
55°	5081.1	3649.1	168.8	85.5	61.2	43.3	36.9	32.7	28.5	25.3	24.3
57.5°	5410.3	3620.6	133.0	72.8	52.8	39.0	32.7	28.5	26.4	22.2	21.1
60°	5623.5	3513.0	103.4	61.2	45.4	33.8	28.5	25.3	22.2	19.0	17.9
62.5°	5736.4	3363.1	79.1	48.5	36.9	29.5	25.3	22.2	19.0	15.8	14.8
65°	5583.4	3097.2	62.3	38.0	28.5	25.3	21.1	17.9	14.8	11.6	10.6
67.5°	4904.9	2611.8	48.5	30.6	22.2	19.0	17.9	14.8	10.6	8.4	7.4
70°	3466.5	1788.7	38.0	23.2	16.9	14.8	13.7	11.6	8.4	6.3	5.3
72.5°	1902.6	902.2	27.4	16.9	12.7	11.6	10.6	9.5	7.4	5.3	5.3
75°	732.4	248.0	20.0	11.6	8.4	8.4	7.4	7.4	6.3	4.2	4.2
77.5°	191.0	73.9	12.7	7.4	5.3	5.3	5.3	4.2	4.2	3.2	3.2
80°	61.2	24.3	7.4	5.3	4.2	3.2	3.2	2.1	3.2	2.1	2.1
82.5°	20.0	8.4	4.2	4.2	3.2	2.1	2.1	1.1	1.1	0.0	0.0
85°	7.4	4.2	3.2	2.1	2.1	2.1	1.1	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	2.1	2.1	2.1	1.1	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)