

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: P632052

Luminaire Tested: GWS-SA2B-830-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-830-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

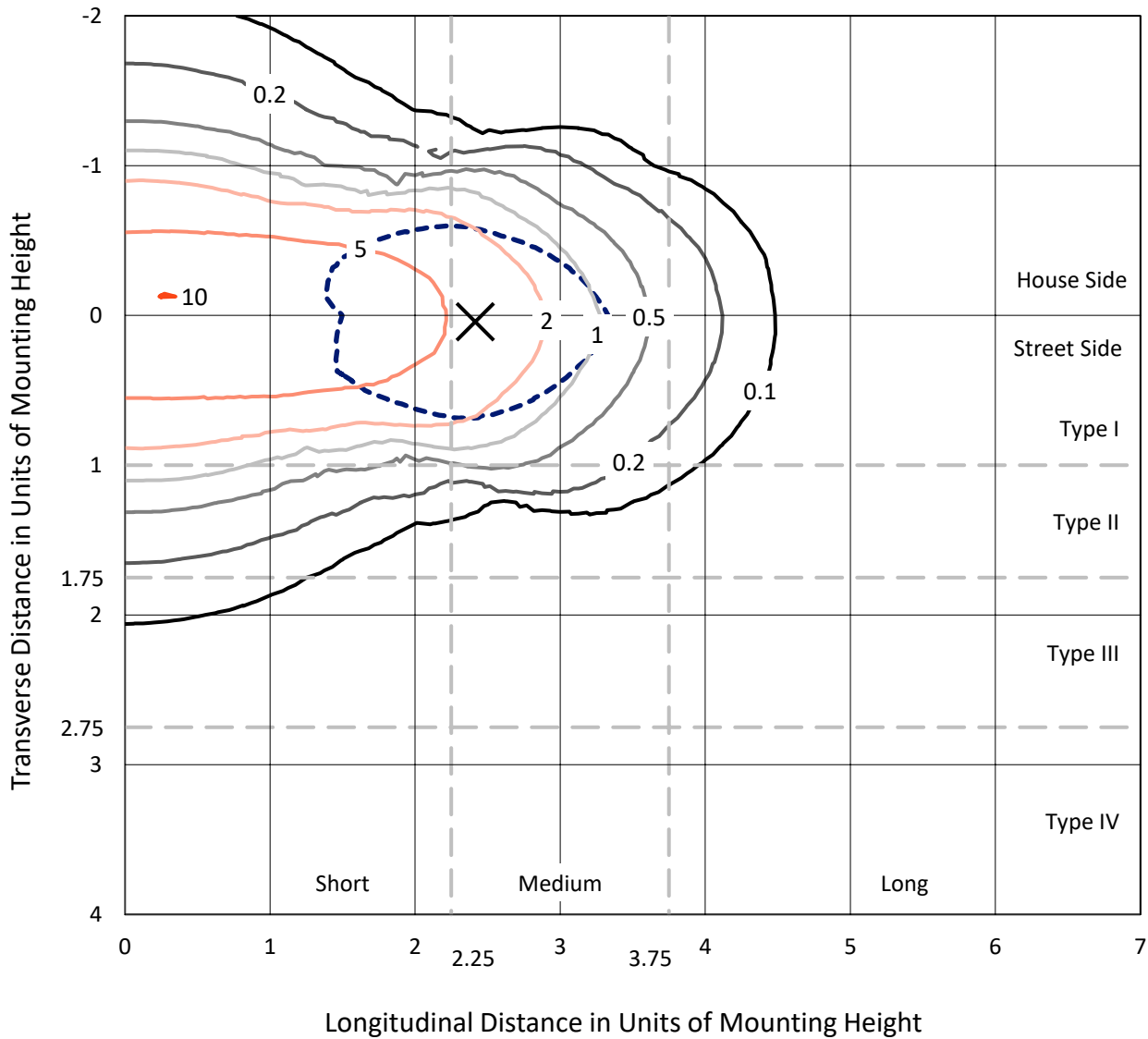
Lumens per Lamp: N/A  
Luminaire Lumens: 5472.2 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

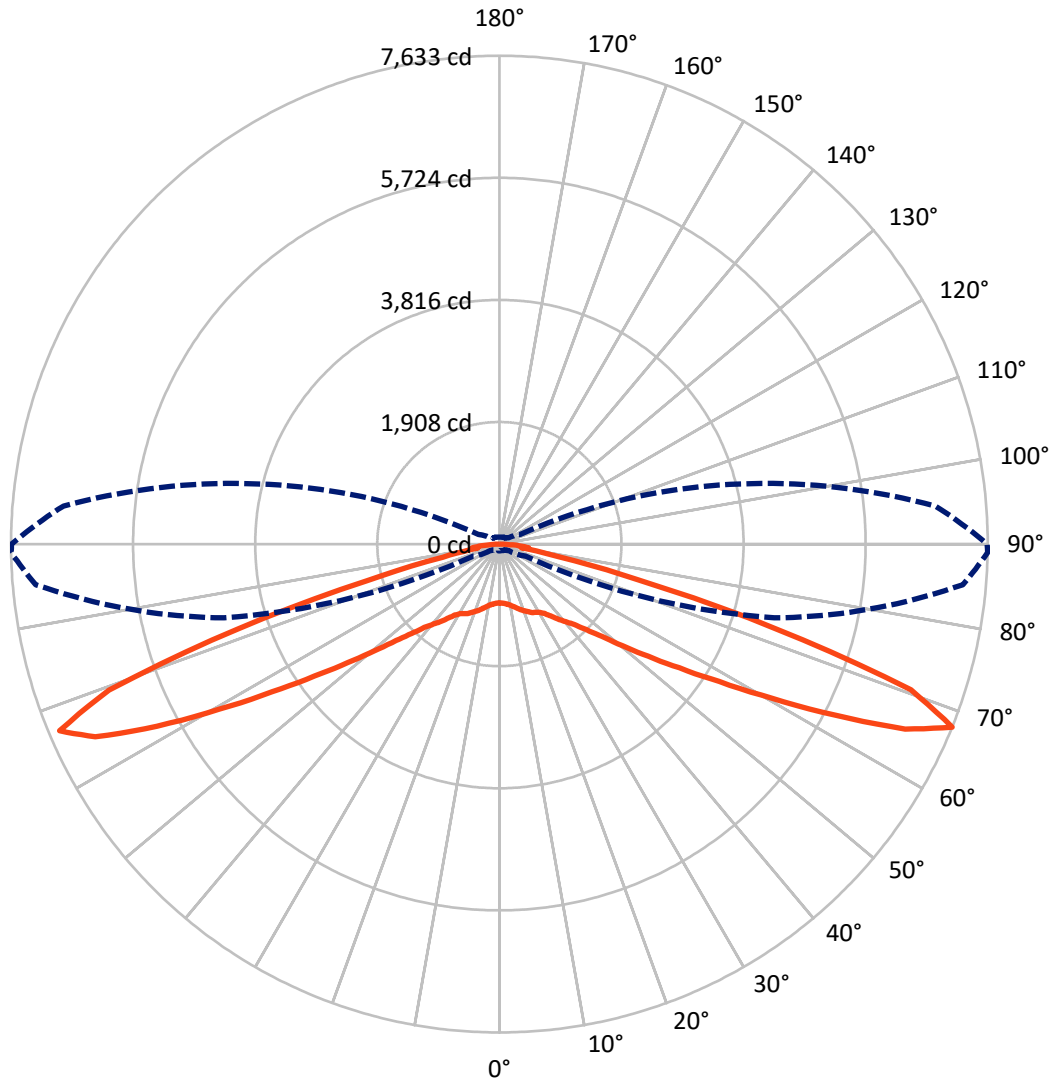
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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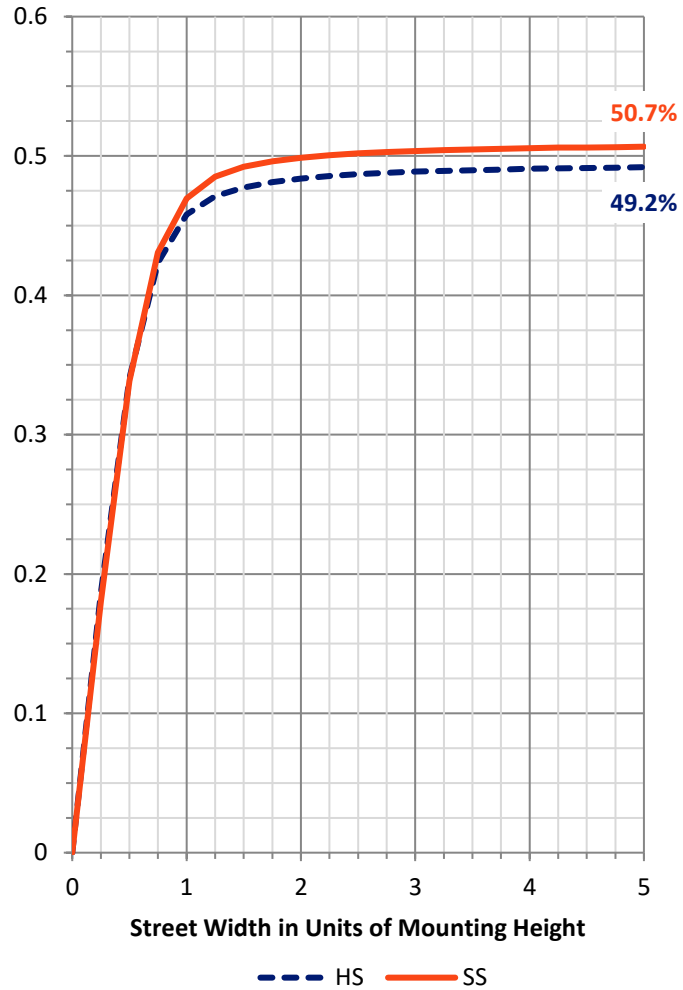
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2712.1	0.0	2712.1
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	2760.1	0.0	2760.1
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	5472.2	0.0	5472.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	1.7
10°-20°	300.0	5.5
20°-30°	507.1	9.3
30°-40°	695.9	12.7
40°-50°	887.5	16.2
50°-60°	1113.5	20.3
60°-70°	1343.0	24.5
70°-80°	485.8	8.9
80°-90°	47.2	0.9
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°	5472.2	100.0
0°-180°	5472.2	100.0

**Coefficient of Utilization**



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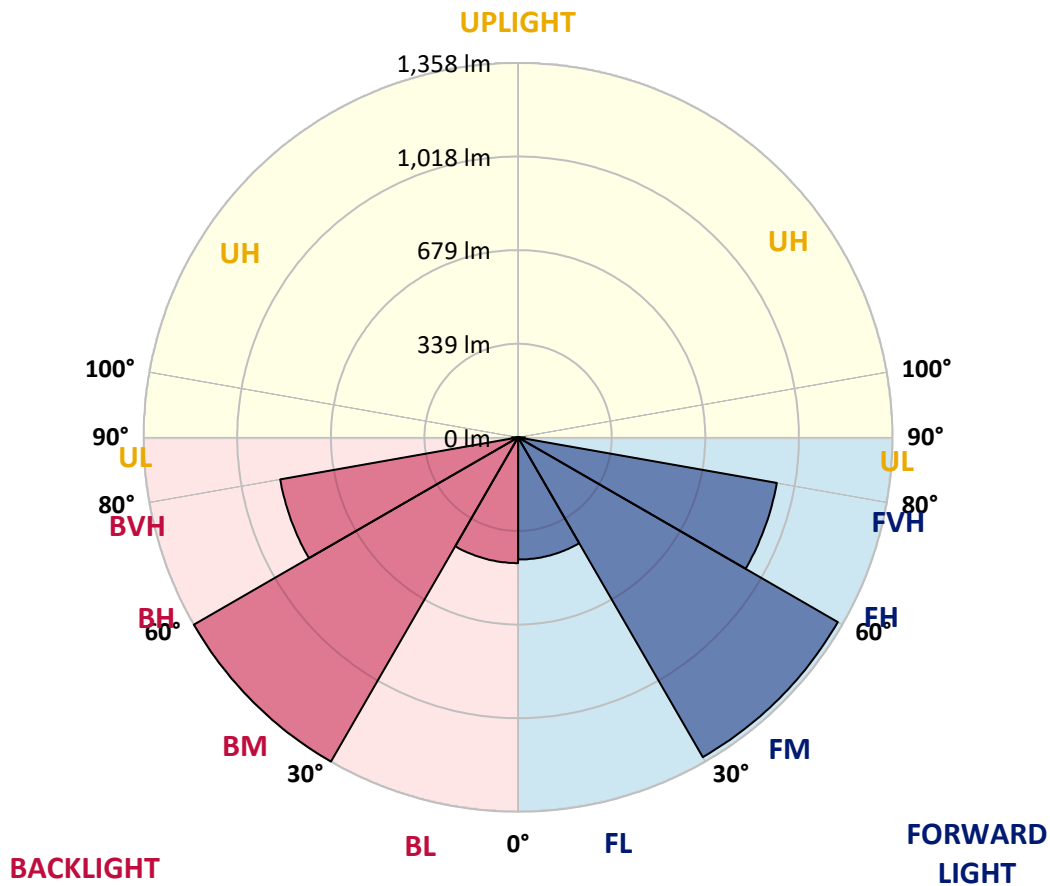
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.2	8.1			
FM (30°-60°)	1339.2	24.5			
FH (60°-80°)	952.8	17.4			G1/1800
FVH (80°-90°)	24.9	0.5			G1/100
BL (0°-30°)	456.0	8.3	B1/500		
BM (30°-60°)	1357.8	24.8	B2/2500		
BH (60°-80°)	876.0	16.0	B2/1000		G2/1000
BVH (80°-90°)	22.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5
2.5°	921.2	920.4	918.5	924.4	923.2	923.6	925.9	924.4	921.6	916.9	923.6
5°	947.2	946.8	942.4	946.0	942.0	939.3	938.9	935.0	931.8	926.7	933.8
7.5°	972.3	971.9	968.4	974.7	971.5	968.4	964.8	957.0	949.5	942.0	949.9
10°	991.6	991.2	990.4	999.4	1000.2	1001.4	999.8	986.5	973.5	964.4	972.3
12.5°	1002.6	1003.7	1005.7	1022.2	1030.5	1038.3	1040.3	1029.3	1007.7	994.7	1004.1
15°	995.1	997.5	1007.3	1037.2	1059.9	1077.6	1085.1	1076.1	1048.2	1026.5	1037.2
17.5°	959.3	961.3	980.6	1026.1	1076.5	1117.3	1129.5	1124.0	1093.0	1066.6	1076.8
20°	909.8	914.1	935.0	998.6	1073.7	1144.8	1177.5	1175.5	1141.7	1101.2	1113.4
22.5°	865.0	870.1	892.1	962.5	1055.2	1151.9	1225.8	1230.9	1186.1	1135.8	1145.6
25°	814.7	819.4	847.7	919.6	1023.4	1146.4	1267.1	1290.3	1236.4	1175.5	1184.5
27.5°	763.2	766.8	794.7	871.3	981.7	1136.2	1299.7	1355.5	1285.9	1203.0	1209.3
30°	718.0	722.7	748.3	823.0	936.2	1115.8	1326.4	1425.1	1342.9	1234.1	1239.2
32.5°	674.4	678.3	706.2	775.4	887.8	1084.3	1350.4	1506.8	1427.4	1291.8	1291.8
35°	619.4	626.5	657.9	729.8	842.2	1042.7	1367.7	1601.9	1543.0	1377.1	1377.5
37.5°	568.7	572.6	605.6	678.3	794.3	995.5	1369.2	1700.6	1689.2	1485.6	1486.4
40°	510.9	516.0	551.4	623.3	739.3	946.0	1354.3	1792.5	1842.4	1597.2	1592.9
42.5°	452.4	459.8	493.6	564.0	679.9	885.5	1314.6	1880.2	2037.0	1726.5	1715.9
45°	395.8	400.5	434.3	500.7	611.9	813.1	1251.0	1964.3	2268.1	1923.0	1907.7
47.5°	332.1	334.1	369.0	432.7	541.6	732.6	1159.8	2039.3	2521.9	2183.2	2156.8
50°	275.5	278.3	305.8	360.4	455.5	637.1	1046.2	2083.3	2845.4	2538.1	2492.5
52.5°	222.8	225.6	247.6	291.2	376.5	528.2	905.5	2073.1	3173.6	2978.6	2912.2
55°	180.0	182.0	196.9	231.1	296.3	420.1	739.3	1981.6	3537.9	3554.0	3410.9
57.5°	152.1	152.9	163.1	183.9	231.5	323.8	570.7	1765.4	3919.9	4288.1	4053.1
60°	136.0	136.4	141.1	154.1	182.7	247.2	418.2	1421.1	4315.6	5206.6	4884.3
62.5°	125.8	125.8	129.7	137.2	151.7	190.2	307.3	1020.6	4599.8	6206.0	5885.7
65°	115.9	115.9	118.7	125.0	132.8	155.2	230.7	658.3	4739.3	7041.6	6970.4
67.5°	103.4	103.8	105.7	112.4	119.5	129.7	174.9	445.3	4449.7	7272.7	7632.6
70°	91.6	92.0	94.7	99.0	104.9	112.0	136.8	306.9	3238.8	6057.1	6824.6
72.5°	78.6	80.2	82.1	86.9	90.4	95.5	111.6	198.9	1884.5	3896.3	4511.4
75°	64.5	66.4	68.8	73.5	75.9	77.8	92.0	141.9	906.7	1974.5	2248.4
77.5°	49.9	51.9	54.6	59.0	60.5	62.9	70.3	102.6	434.3	875.2	943.6
80°	33.4	34.2	36.5	41.7	44.4	46.0	51.9	70.0	188.6	351.4	348.2
82.5°	20.4	20.8	21.6	24.8	25.9	27.5	33.8	42.8	90.0	399.3	457.9
85°	7.5	7.1	6.7	8.6	10.2	11.8	15.7	21.6	39.3	274.3	306.9
87.5°	0.0	0.0	0.0	0.4	0.8	0.8	1.6	3.1	9.4	102.6	70.3
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°	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5	918.5
2.5°	921.6	917.3	922.8	926.7	935.4	938.5	939.3	936.5	936.5	931.8	932.6
5°	932.2	929.5	938.5	945.2	957.8	962.5	965.6	963.7	964.8	961.7	962.5
7.5°	948.3	946.0	961.7	974.7	987.6	993.1	995.9	994.3	994.7	990.8	992.0
10°	970.7	971.5	990.4	1007.3	1024.6	1030.1	1031.3	1026.5	1022.6	1015.5	1015.9
12.5°	1001.4	1005.3	1032.0	1050.9	1068.6	1076.5	1067.8	1050.5	1034.4	1022.2	1020.6
15°	1034.8	1041.9	1080.4	1104.4	1123.6	1119.7	1094.1	1055.2	1023.4	1005.3	1001.8
17.5°	1074.9	1085.5	1133.8	1162.5	1179.0	1153.9	1100.4	1042.3	997.9	973.5	968.8
20°	1112.6	1129.5	1190.4	1227.8	1229.7	1173.1	1097.7	1015.9	960.1	930.3	924.0
22.5°	1147.2	1168.8	1249.8	1297.3	1271.8	1181.8	1080.8	978.6	914.5	879.6	874.1
25°	1184.9	1215.6	1318.9	1363.4	1313.8	1178.2	1045.4	932.2	859.5	823.7	819.8
27.5°	1210.9	1249.4	1388.5	1430.9	1348.4	1158.2	999.8	881.5	809.2	775.4	769.9
30°	1240.7	1289.9	1465.1	1504.4	1369.6	1128.7	951.1	834.4	762.4	725.9	722.0
32.5°	1295.0	1356.7	1560.3	1582.3	1376.3	1092.2	904.3	788.8	713.7	677.2	671.7
35°	1382.2	1454.5	1693.9	1669.1	1371.2	1052.1	859.9	735.3	663.8	629.6	624.1
37.5°	1492.3	1582.3	1842.8	1747.3	1357.1	1008.1	807.2	690.5	619.0	584.4	581.3
40°	1594.8	1705.7	2009.9	1814.9	1328.4	953.8	756.5	643.8	570.7	534.1	527.0
42.5°	1723.3	1870.7	2203.2	1873.5	1281.2	889.0	699.6	586.0	510.1	477.1	468.5
45°	1918.7	2101.8	2428.0	1929.7	1210.9	809.2	628.0	515.6	443.7	409.9	403.2
47.5°	2162.3	2390.7	2671.7	1963.1	1104.0	725.1	547.1	441.4	369.4	331.3	328.2
50°	2504.7	2810.8	2933.0	1957.2	984.5	625.3	455.9	352.9	292.8	265.3	261.0
52.5°	2921.6	3338.2	3215.6	1886.4	857.5	511.7	355.3	277.1	232.3	212.6	209.1
55°	3444.7	3969.8	3513.1	1734.7	697.2	391.8	279.0	218.5	187.9	176.1	174.5
57.5°	4092.4	4787.6	3799.6	1479.3	524.3	299.1	215.0	180.4	165.9	158.8	158.4
60°	4947.2	5655.8	4048.4	1149.6	375.3	228.7	177.6	161.1	149.7	145.0	144.6
62.5°	5963.5	6444.2	4203.2	782.9	282.2	182.4	156.4	146.2	139.5	136.8	136.4
65°	7008.2	6942.5	4129.4	512.9	214.2	154.8	140.3	134.8	128.9	126.2	126.2
67.5°	7625.2	6837.2	3562.2	356.1	169.8	136.0	126.5	121.4	111.6	109.3	109.3
70°	6753.9	5540.3	2334.9	260.6	137.6	119.1	110.0	103.0	99.0	96.7	96.3
72.5°	4467.0	3605.1	1241.5	180.8	114.8	101.4	93.1	90.4	85.7	83.3	82.9
75°	2223.3	1893.5	636.3	130.5	95.5	81.4	77.8	76.6	72.7	69.6	68.8
77.5°	926.7	843.0	296.7	94.7	72.7	65.6	62.5	62.5	58.2	54.6	53.1
80°	349.4	311.3	140.3	64.8	53.8	48.7	46.8	45.2	41.7	37.3	35.0
82.5°	467.3	305.4	68.8	40.5	35.4	31.4	28.7	27.5	25.5	23.6	22.0
85°	302.6	216.9	31.0	20.8	17.7	13.4	11.8	11.0	9.8	8.6	7.9
87.5°	61.7	72.7	9.4	3.9	2.4	1.2	1.2	0.4	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)