

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: P629318

Luminaire Tested: GWS-SA1B-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-735-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3099.2 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

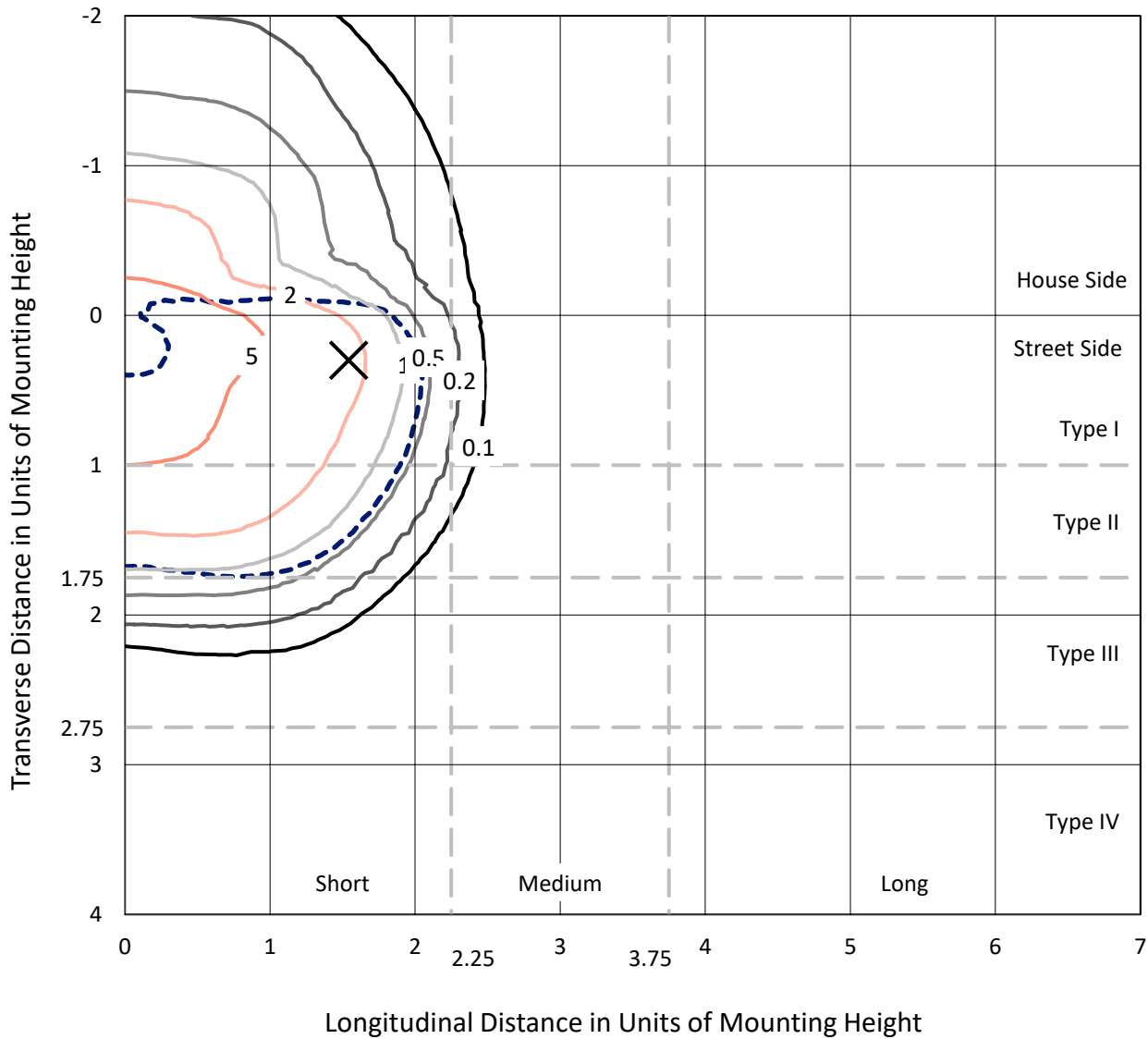
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

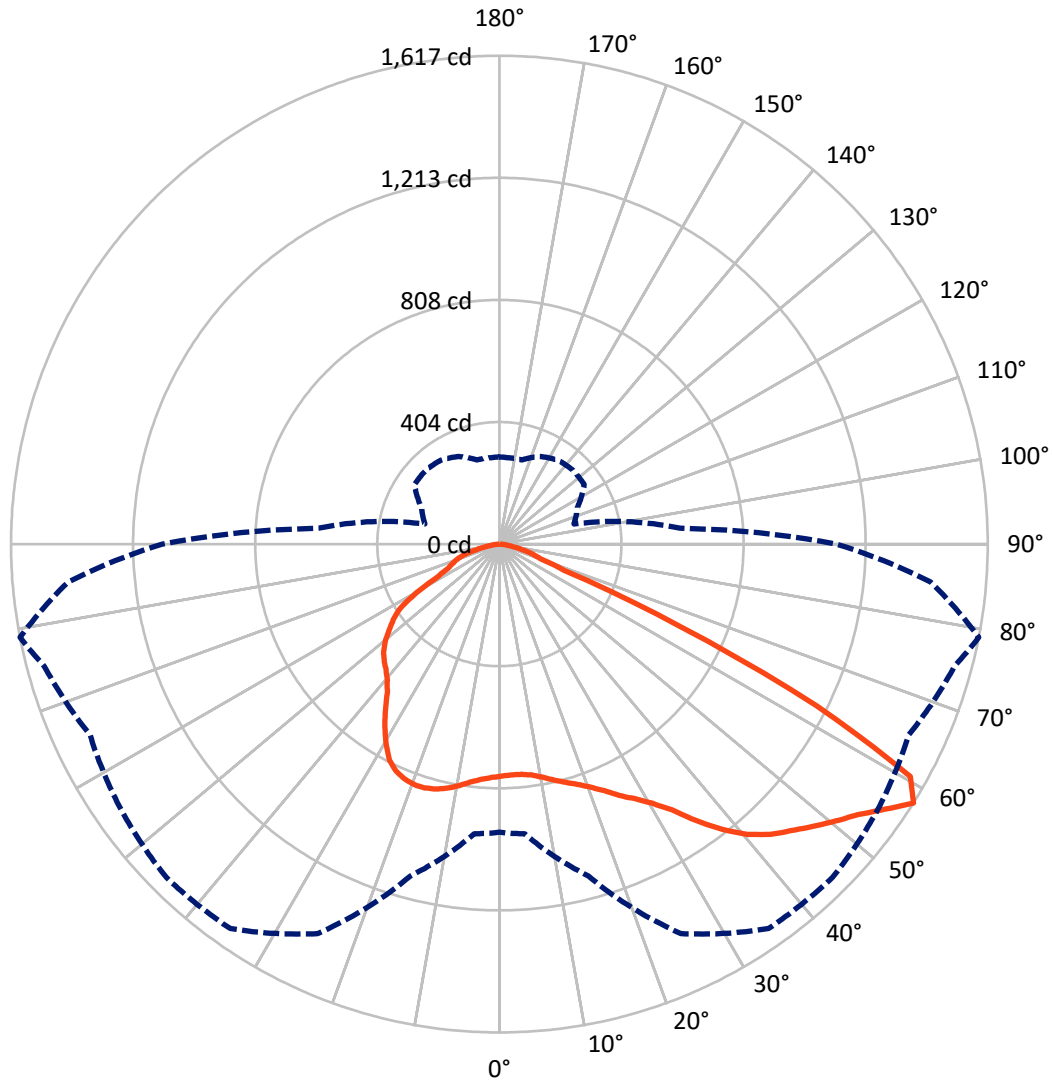
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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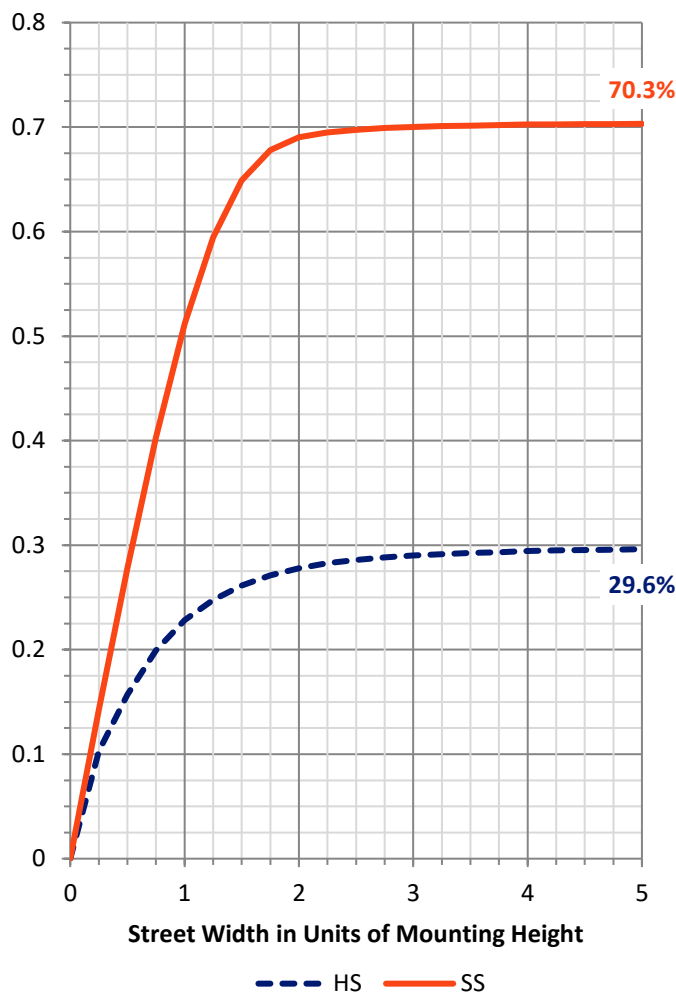
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	921.2	0.0	921.2
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	2178.0	0.0	2178.0
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	3099.2	0.0	3099.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.1	2.3
10°-20°	197.7	6.4
20°-30°	335.1	10.8
30°-40°	512.8	16.5
40°-50°	683.8	22.1
50°-60°	789.8	25.5
60°-70°	410.4	13.2
70°-80°	87.2	2.8
80°-90°	11.3	0.4
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°	3099.2	100.0
0°-180°	3099.2	100.0

**Coefficient of Utilization**



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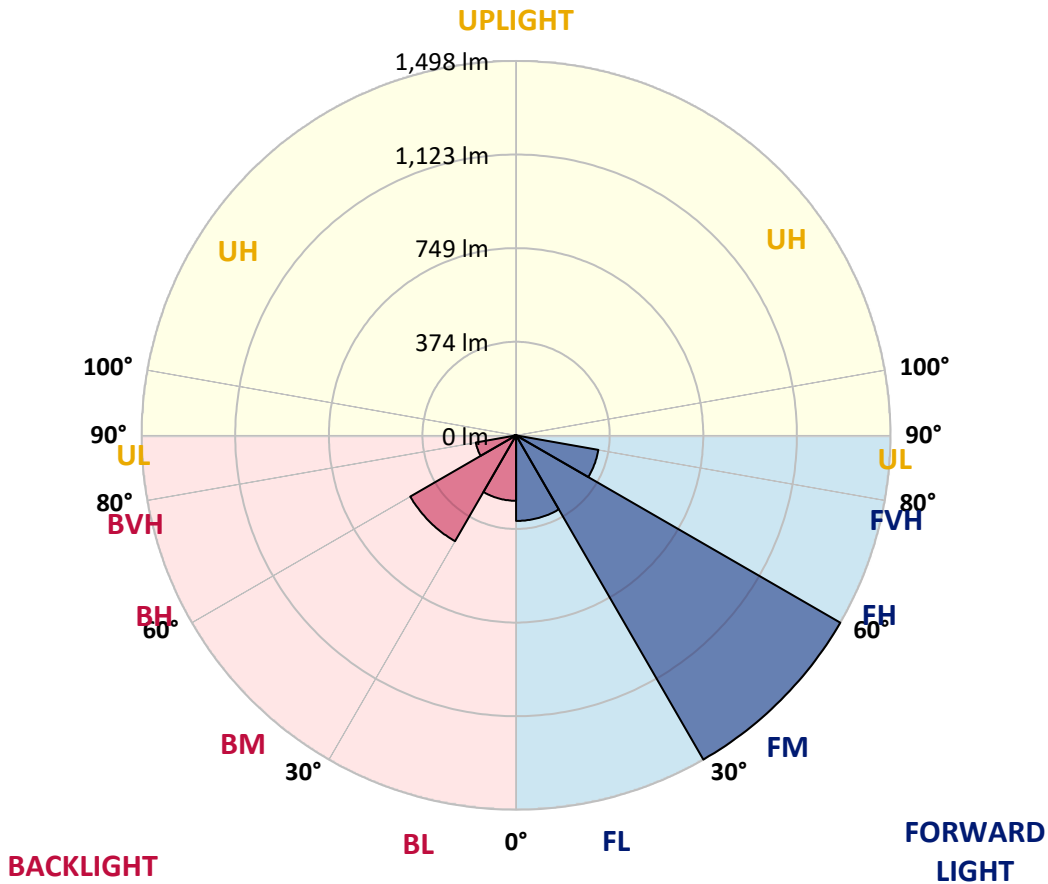
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.2	11.0			
FM (30°-60°)	1497.6	48.3			
FH (60°-80°)	334.2	10.8			G0/660
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	261.6	8.4	B1/500		
BM (30°-60°)	488.8	15.8	B1/1000		
BH (60°-80°)	163.5	5.3	B1/500		G1/500
BVH (80°-90°)	7.4	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1
2.5°	733.1	731.6	732.1	734.1	741.7	747.3	753.1	758.4	763.5	765.0	766.3
5°	707.0	704.2	705.0	708.3	717.1	726.5	736.9	749.6	761.7	765.8	771.1
7.5°	688.5	688.0	689.2	694.3	703.7	712.6	726.0	744.0	765.0	771.9	781.2
10°	663.9	662.9	668.0	678.4	693.8	708.0	724.0	745.2	774.6	784.8	799.2
12.5°	644.4	643.9	649.2	663.7	683.4	706.0	728.0	751.8	787.6	801.5	819.2
15°	655.8	653.5	653.8	663.9	681.6	708.3	738.2	763.7	800.5	818.2	841.0
17.5°	689.0	684.9	681.9	683.7	693.8	721.4	753.6	779.7	815.4	836.2	864.1
20°	734.9	732.6	724.2	718.6	720.9	745.2	777.9	802.3	835.0	858.3	888.2
22.5°	796.4	790.9	779.5	770.6	763.7	782.8	812.9	833.9	862.1	886.4	917.6
25°	872.7	864.6	846.6	832.7	818.0	837.5	864.3	880.3	899.3	921.9	951.5
27.5°	950.5	943.7	923.6	904.9	886.6	898.8	930.7	939.9	937.8	954.3	979.6
30°	1033.4	1024.7	1005.7	985.5	961.9	969.8	998.4	1003.0	981.4	995.1	1012.3
32.5°	1120.8	1112.4	1096.0	1072.4	1045.8	1048.8	1056.7	1061.0	1040.5	1048.3	1061.5
35°	1209.7	1201.9	1185.1	1161.8	1142.3	1123.8	1104.1	1121.3	1109.4	1124.6	1123.6
37.5°	1291.1	1283.2	1272.8	1254.8	1221.4	1184.9	1139.3	1160.6	1179.1	1198.3	1195.0
40°	1346.1	1340.7	1343.3	1340.5	1297.4	1225.2	1156.5	1179.8	1230.3	1263.2	1261.4
42.5°	1393.4	1388.1	1402.8	1413.5	1362.8	1262.4	1164.9	1187.2	1262.9	1314.4	1311.8
45°	1414.5	1413.0	1437.3	1471.0	1422.6	1302.0	1186.4	1202.4	1287.8	1353.7	1344.0
47.5°	1389.4	1394.7	1442.6	1499.6	1472.3	1348.8	1230.5	1234.6	1320.2	1396.2	1369.1
50°	1339.5	1351.1	1415.7	1500.4	1508.5	1401.8	1291.6	1281.4	1363.8	1441.6	1382.3
52.5°	1266.7	1278.9	1384.3	1494.5	1529.3	1463.1	1372.9	1358.5	1418.8	1486.9	1384.6
55°	1099.8	1116.2	1312.4	1481.4	1549.5	1518.9	1464.6	1435.3	1489.7	1549.3	1407.1
57.5°	954.0	962.7	1137.0	1422.8	1553.6	1559.9	1530.0	1495.1	1560.2	1616.7	1432.5
60°	700.1	702.2	859.0	1177.3	1429.2	1536.1	1524.7	1472.8	1526.7	1562.7	1316.4
62.5°	395.6	395.8	521.0	785.8	1067.6	1252.0	1259.1	1213.3	1167.9	1178.6	916.3
65°	148.5	162.4	237.9	386.2	615.5	739.2	768.6	779.2	703.7	656.8	491.3
67.5°	99.3	102.6	138.9	198.7	273.9	316.2	353.7	354.8	259.5	231.4	193.6
70°	75.8	79.1	109.2	142.2	138.9	128.2	138.6	134.8	139.4	143.2	147.2
72.5°	56.5	59.8	84.6	100.3	83.4	82.1	93.0	103.4	113.0	117.1	123.4
75°	37.5	40.0	57.0	53.7	46.1	54.5	67.9	78.3	83.9	88.7	93.5
77.5°	23.8	25.6	30.4	24.6	25.6	31.9	39.5	48.9	54.2	59.0	61.6
80°	10.9	10.6	10.4	11.7	14.4	18.8	23.8	29.4	33.4	35.5	37.0
82.5°	4.3	4.8	5.3	6.3	7.9	10.1	13.4	17.2	20.5	21.0	22.3
85°	1.8	2.0	2.3	2.8	3.5	4.6	5.6	7.9	9.9	10.6	11.4
87.5°	0.0	0.0	0.0	0.0	0.3	0.5	0.8	1.3	2.3	2.5	2.8
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°	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1
2.5°	773.1	769.8	775.4	779.2	782.8	778.9	777.7	774.4	773.9	773.9	775.7
5°	780.2	777.9	783.8	786.0	785.8	777.4	772.4	765.8	762.5	762.5	763.0
7.5°	792.9	791.6	794.9	791.4	783.3	766.3	749.6	735.6	726.2	721.4	722.9
10°	813.9	812.4	809.6	796.4	773.1	737.9	703.7	678.4	663.1	654.5	655.0
12.5°	834.4	831.9	822.0	792.9	745.0	689.0	644.1	615.8	599.0	588.9	586.6
15°	857.0	850.4	829.1	774.6	699.1	629.2	582.3	551.7	533.7	527.6	527.3
17.5°	878.5	866.9	828.4	742.2	644.1	566.6	519.5	500.5	497.4	500.2	501.0
20°	900.3	881.6	820.0	697.4	578.8	504.3	479.9	487.8	499.2	506.8	508.6
22.5°	922.9	893.7	801.0	639.6	509.8	462.2	472.3	489.6	503.8	513.9	514.9
25°	948.2	905.1	772.6	568.9	454.6	450.5	470.6	488.8	504.0	515.7	517.7
27.5°	962.7	905.4	732.8	496.2	429.3	446.0	466.3	483.5	498.7	511.4	513.6
30°	976.9	898.6	669.7	437.1	421.9	440.7	458.9	474.9	489.3	501.7	504.5
32.5°	996.9	892.2	597.0	403.2	417.6	435.6	450.5	464.7	475.9	481.5	483.0
35°	1021.7	884.1	519.7	388.5	414.8	431.5	444.7	452.3	437.9	434.8	438.1
37.5°	1056.4	876.5	442.7	382.1	413.0	430.0	441.7	422.2	404.4	397.3	399.9
40°	1093.9	872.2	390.5	377.1	413.8	431.5	429.0	400.1	374.5	359.6	359.1
42.5°	1125.9	865.6	357.0	373.8	415.8	437.4	411.8	380.6	342.6	333.7	334.0
45°	1147.4	848.9	339.3	370.2	417.6	438.6	403.7	353.7	326.6	321.1	320.8
47.5°	1156.3	818.5	327.9	364.6	417.3	428.2	387.2	342.6	315.5	314.0	315.0
50°	1150.4	768.6	316.2	353.7	411.3	417.3	368.2	332.7	307.9	316.2	322.3
52.5°	1128.9	703.9	302.3	338.8	400.4	404.9	358.6	326.6	302.3	313.5	318.3
55°	1123.3	651.5	284.6	319.3	384.2	382.9	348.4	323.6	298.5	294.2	295.0
57.5°	1116.0	600.3	255.2	284.3	343.1	345.1	338.8	320.0	288.6	287.4	288.6
60°	969.5	460.2	227.6	245.3	281.8	292.7	327.9	313.5	272.7	267.3	267.1
62.5°	633.2	278.7	202.5	213.9	229.6	242.2	299.0	294.5	255.2	251.9	254.2
65°	340.6	198.7	184.2	191.1	199.7	209.3	247.8	262.3	230.6	218.9	219.2
67.5°	174.1	169.0	170.5	175.4	181.9	186.8	199.9	212.6	196.6	186.8	186.5
70°	149.0	153.1	155.3	158.1	162.4	161.7	162.9	165.2	163.9	159.1	158.9
72.5°	127.0	133.3	133.8	134.3	135.8	132.3	130.0	126.2	126.4	127.2	127.5
75°	96.5	102.6	104.1	103.4	104.9	100.3	97.3	93.5	88.9	88.2	88.7
77.5°	62.8	67.7	69.9	69.4	70.2	66.6	65.1	61.1	55.7	53.7	53.7
80°	38.0	40.8	42.6	43.1	43.8	41.3	38.8	35.2	32.9	30.7	30.7
82.5°	23.1	24.8	26.1	26.1	26.9	24.1	22.0	19.5	18.5	16.5	16.5
85°	11.7	12.9	13.4	13.2	12.7	10.4	9.6	8.4	7.9	6.8	6.8
87.5°	2.8	3.5	3.5	2.5	2.5	1.3	0.8	0.3	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)