

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: P629392

Luminaire Tested: GWS-SA1B-750-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629392  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-750-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

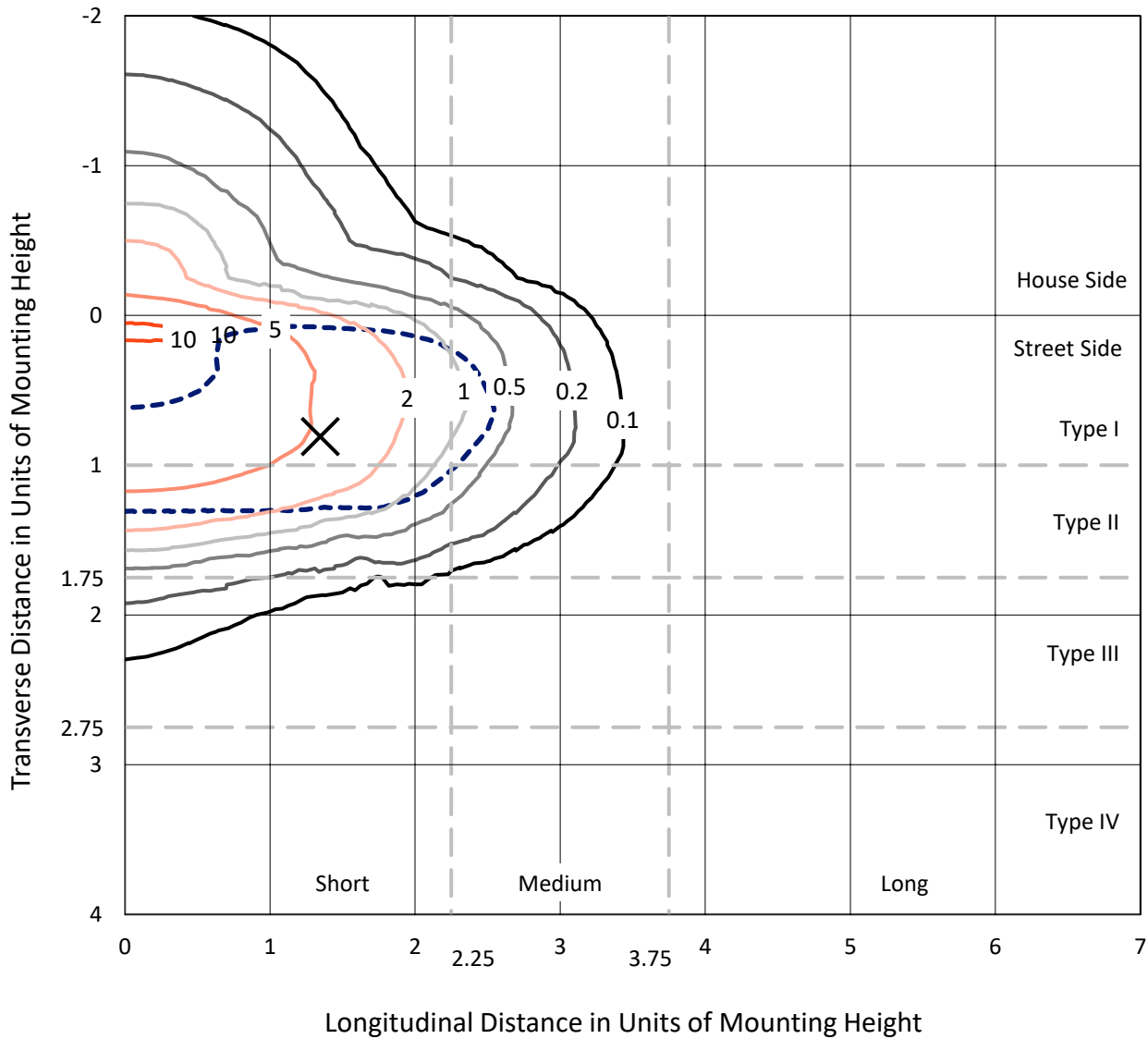
Lumens per Lamp: N/A  
Luminaire Lumens: 3733.3 lumens  
Efficiency: N/A  
Efficacy: 149.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

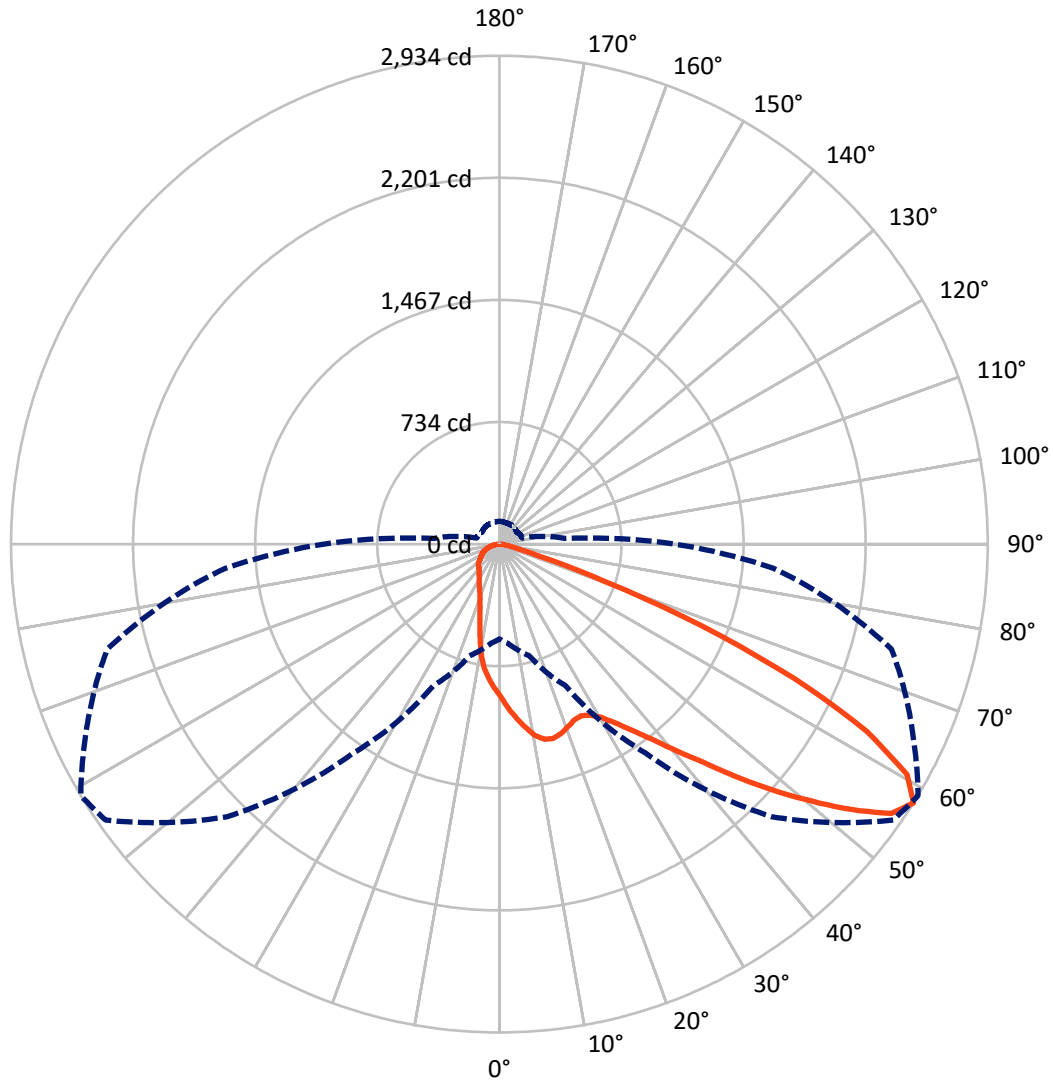
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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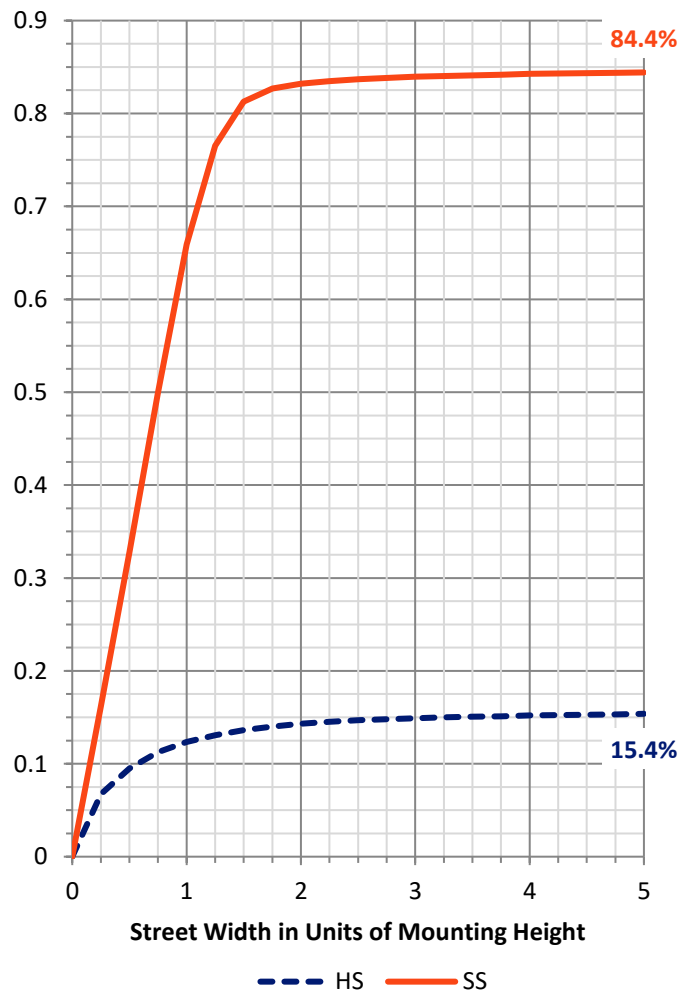
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	579.4	0.0	579.4
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	3153.9	0.0	3153.9
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	3733.3	0.0	3733.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.1	2.3
10°-20°	215.6	5.8
20°-30°	349.5	9.4
30°-40°	562.3	15.1
40°-50°	873.2	23.4
50°-60°	940.5	25.2
60°-70°	545.8	14.6
70°-80°	142.5	3.8
80°-90°	18.8	0.5
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°	3733.3	100.0
0°-180°	3733.3	100.0

**Coefficient of Utilization**



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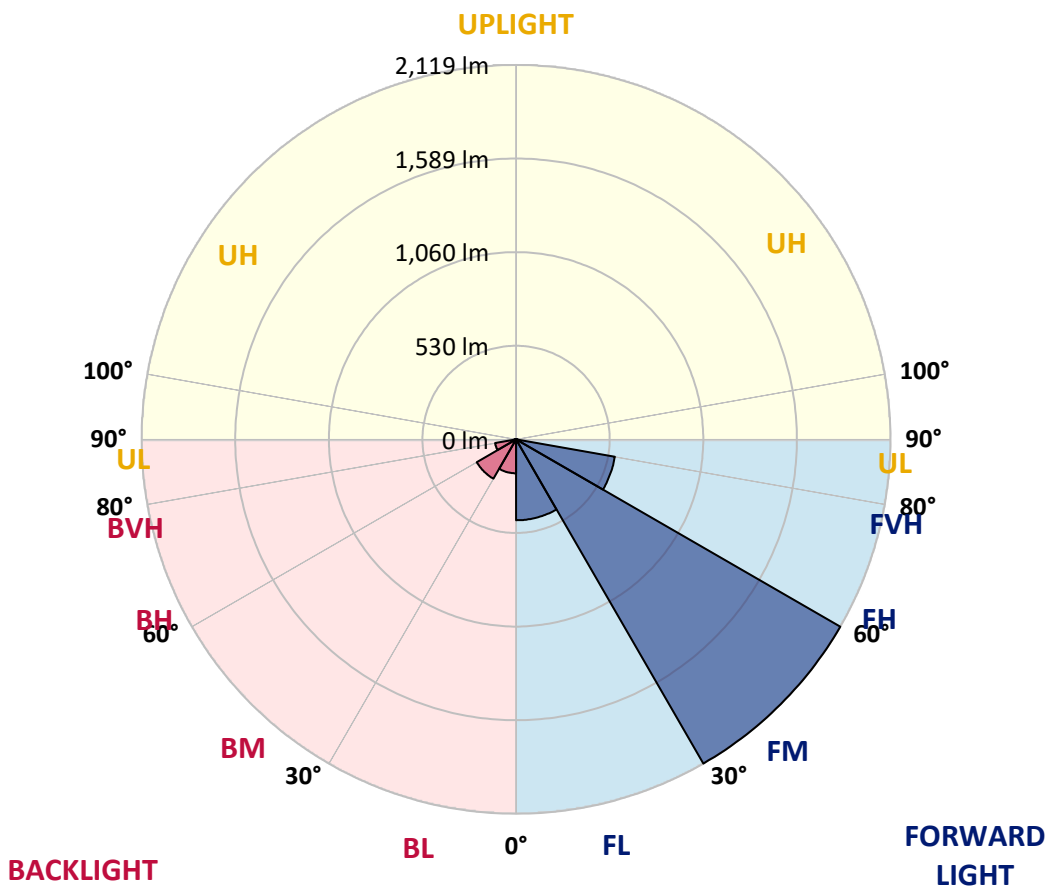
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.0	12.3			
FM (30°-60°)	2119.1	56.8			
FH (60°-80°)	567.8	15.2			G0/660
FVH (80°-90°)	9.0	0.2			G0/10
BL (0°-30°)	192.2	5.1	B1/500		
BM (30°-60°)	256.9	6.9	B1/1000		
BH (60°-80°)	120.5	3.2	B1/500		G1/500
BVH (80°-90°)	9.8	0.3			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°	59°	65°	75°	85°
0°	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5
2.5°	1039.4	1030.8	1036.8	1026.0	1021.6	1009.8	994.5	984.3	968.5	948.0	930.1
5°	1142.7	1136.7	1138.0	1126.4	1116.2	1096.5	1065.2	1047.9	1021.1	979.8	941.4
7.5°	1139.6	1146.7	1150.6	1160.6	1163.5	1161.7	1133.5	1109.4	1079.9	1017.9	960.1
10°	1021.6	1035.0	1047.1	1081.2	1122.8	1175.3	1181.9	1167.4	1137.7	1066.5	982.4
12.5°	893.1	903.3	914.1	955.1	1018.7	1123.8	1195.0	1204.0	1192.1	1114.6	1007.6
15°	830.0	834.7	845.0	872.0	922.8	1039.4	1172.2	1211.3	1232.6	1165.6	1036.0
17.5°	827.4	829.5	834.5	848.9	884.1	974.3	1130.9	1196.6	1264.4	1219.5	1069.1
20°	881.8	876.2	873.1	872.8	890.2	952.5	1091.0	1173.0	1279.4	1274.7	1104.6
22.5°	957.2	959.0	952.2	935.4	933.3	968.0	1071.0	1149.0	1283.9	1323.6	1137.5
25°	1064.2	1073.4	1053.1	1021.1	1005.3	1012.9	1083.3	1141.7	1283.3	1364.3	1158.0
27.5°	1189.0	1196.1	1175.6	1133.5	1100.9	1082.6	1120.1	1163.5	1287.8	1399.5	1170.3
30°	1331.2	1333.5	1305.4	1261.3	1213.7	1174.3	1181.4	1208.4	1310.7	1445.8	1184.8
32.5°	1504.9	1514.9	1472.3	1402.4	1335.9	1285.4	1263.6	1281.0	1360.1	1500.4	1207.1
35°	1725.4	1728.8	1674.7	1574.5	1480.5	1410.6	1364.8	1374.0	1435.3	1576.9	1240.8
37.5°	1933.3	1936.7	1879.2	1786.1	1651.6	1555.9	1489.7	1485.5	1531.4	1684.9	1295.7
40°	2065.2	2075.0	2049.2	1990.9	1862.3	1733.3	1643.4	1629.0	1657.6	1817.1	1372.2
42.5°	2136.2	2140.4	2139.9	2147.5	2071.0	1942.8	1816.9	1788.0	1807.1	1959.8	1449.4
45°	2136.7	2147.2	2175.4	2248.7	2252.1	2172.2	2036.1	1990.9	1973.2	2103.6	1530.1
47.5°	2041.1	2052.4	2129.6	2273.9	2380.4	2398.5	2298.6	2207.9	2133.8	2227.4	1596.4
50°	1751.4	1779.8	1927.0	2182.2	2405.6	2579.8	2549.1	2426.1	2276.5	2323.1	1637.9
52.5°	1499.9	1498.9	1589.5	1923.0	2300.2	2659.7	2791.4	2650.5	2417.7	2383.8	1648.4
55°	1098.3	1104.4	1197.1	1470.7	2019.0	2582.5	2924.7	2857.1	2579.6	2416.1	1644.2
57.5°	569.5	599.5	694.6	938.5	1534.1	2316.5	2889.2	2934.1	2744.1	2439.0	1649.7
60°	287.8	282.0	316.2	448.1	888.9	1809.2	2670.5	2813.7	2773.8	2456.8	1653.1
62.5°	192.1	190.5	181.1	207.6	363.2	1071.5	2276.5	2477.3	2567.5	2414.8	1609.5
65°	166.4	163.2	145.9	144.8	176.4	444.4	1668.6	1947.5	2122.0	2227.9	1505.2
67.5°	149.8	145.1	127.5	118.8	126.7	195.3	940.4	1306.2	1566.9	1884.2	1276.5
70°	133.8	131.4	113.8	101.2	100.4	119.1	346.4	674.1	958.8	1285.4	933.3
72.5°	119.8	115.6	100.7	88.6	82.5	84.4	150.3	259.7	496.2	801.9	558.2
75°	103.8	100.7	87.5	75.4	68.1	61.8	91.7	120.1	226.3	381.1	263.6
77.5°	80.2	78.1	69.1	59.9	55.7	46.0	55.7	75.7	104.6	160.6	137.2
80°	46.5	47.8	51.5	46.8	41.0	32.9	36.3	43.6	62.8	87.0	77.8
82.5°	23.4	25.0	33.4	27.1	24.4	19.2	21.6	25.8	32.9	48.1	30.5
85°	1.8	1.8	6.0	6.8	8.4	6.8	8.7	10.5	15.0	19.2	10.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.3	2.4	4.5	2.9
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°	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5
2.5°	918.0	904.6	888.6	875.5	855.2	844.4	830.8	814.0	807.1	804.0	802.1
5°	919.9	896.2	862.0	830.5	795.6	768.0	737.2	705.1	686.7	682.3	679.1
7.5°	926.7	893.6	839.2	787.1	722.2	662.0	603.4	545.3	515.7	504.4	503.3
10°	936.2	892.5	816.1	729.6	620.0	524.8	456.3	410.8	391.6	385.3	383.2
12.5°	948.0	891.7	785.6	649.7	502.0	412.1	372.9	365.6	368.2	367.7	367.7
15°	963.0	892.8	748.8	559.3	406.1	357.7	358.5	367.2	375.3	376.6	376.6
17.5°	979.3	891.7	695.4	468.6	348.5	344.8	356.9	369.0	376.4	377.4	377.4
20°	996.9	886.8	628.1	383.2	323.3	336.7	349.8	359.3	363.7	364.8	364.8
22.5°	1007.4	872.6	555.1	324.3	307.2	323.8	332.5	342.2	342.7	334.3	334.0
25°	1005.8	846.0	471.8	286.5	290.2	304.6	315.6	308.8	300.4	295.7	294.9
27.5°	995.8	806.1	386.9	257.8	269.9	286.2	282.8	277.0	274.9	269.7	269.1
30°	983.2	756.9	310.7	235.5	248.9	263.9	258.6	258.1	256.0	250.2	250.2
32.5°	971.1	706.2	253.1	218.9	235.5	236.5	243.9	244.4	243.4	233.4	232.3
35°	967.7	655.5	214.2	205.8	222.3	221.8	232.3	232.1	213.9	200.0	199.7
37.5°	978.0	604.0	191.1	195.0	204.2	211.0	219.5	204.2	198.2	189.8	189.2
40°	999.8	556.4	179.2	188.7	192.6	202.6	189.5	190.5	189.0	182.7	181.9
42.5°	1028.7	515.9	172.7	186.6	186.1	188.7	174.2	178.5	180.8	176.1	175.3
45°	1056.5	480.7	169.3	178.7	181.3	166.1	163.2	167.2	170.8	169.0	168.2
47.5°	1077.0	450.2	167.4	167.9	175.3	158.5	153.7	155.6	160.1	160.8	160.6
50°	1083.3	424.2	165.3	159.0	157.4	150.9	147.2	146.7	151.9	155.6	156.1
52.5°	1071.3	401.1	159.8	151.1	143.5	144.6	143.2	140.6	145.9	150.9	151.4
55°	1053.4	387.9	151.1	143.5	134.6	138.8	139.3	136.9	140.3	143.8	143.8
57.5°	1054.7	395.5	142.7	136.4	126.7	132.2	135.1	134.0	134.0	136.7	136.9
60°	1063.4	406.6	137.2	127.5	118.8	124.6	131.1	130.1	127.7	131.1	131.1
62.5°	1038.4	391.9	133.5	118.8	110.4	117.2	125.1	124.6	121.9	127.5	128.0
65°	964.8	352.4	129.3	108.0	102.0	109.9	116.7	118.5	116.2	123.5	124.8
67.5°	808.7	296.5	121.2	97.8	93.6	100.9	107.5	110.1	108.3	117.0	118.0
70°	602.9	240.0	108.3	86.5	83.3	89.9	95.9	97.0	97.2	107.5	108.5
72.5°	384.5	186.6	91.2	73.9	71.5	76.5	80.9	85.2	87.0	96.7	96.5
75°	214.5	138.8	73.3	62.6	58.3	62.3	67.5	72.5	77.8	92.0	93.6
77.5°	123.5	97.5	58.1	50.2	45.2	49.4	53.9	61.0	76.7	89.1	87.5
80°	69.6	63.3	43.9	36.8	33.6	36.8	40.2	53.6	60.4	65.7	66.5
82.5°	32.6	35.5	30.0	22.6	22.6	24.7	27.9	41.5	45.7	37.3	32.6
85°	11.8	16.0	14.7	11.6	10.2	10.0	17.3	23.7	14.7	13.1	11.3
87.5°	3.2	4.5	4.2	2.9	1.6	1.3	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)