

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: P632037

Luminaire Tested: GWS-SA2B-830-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-830-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5387.3 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

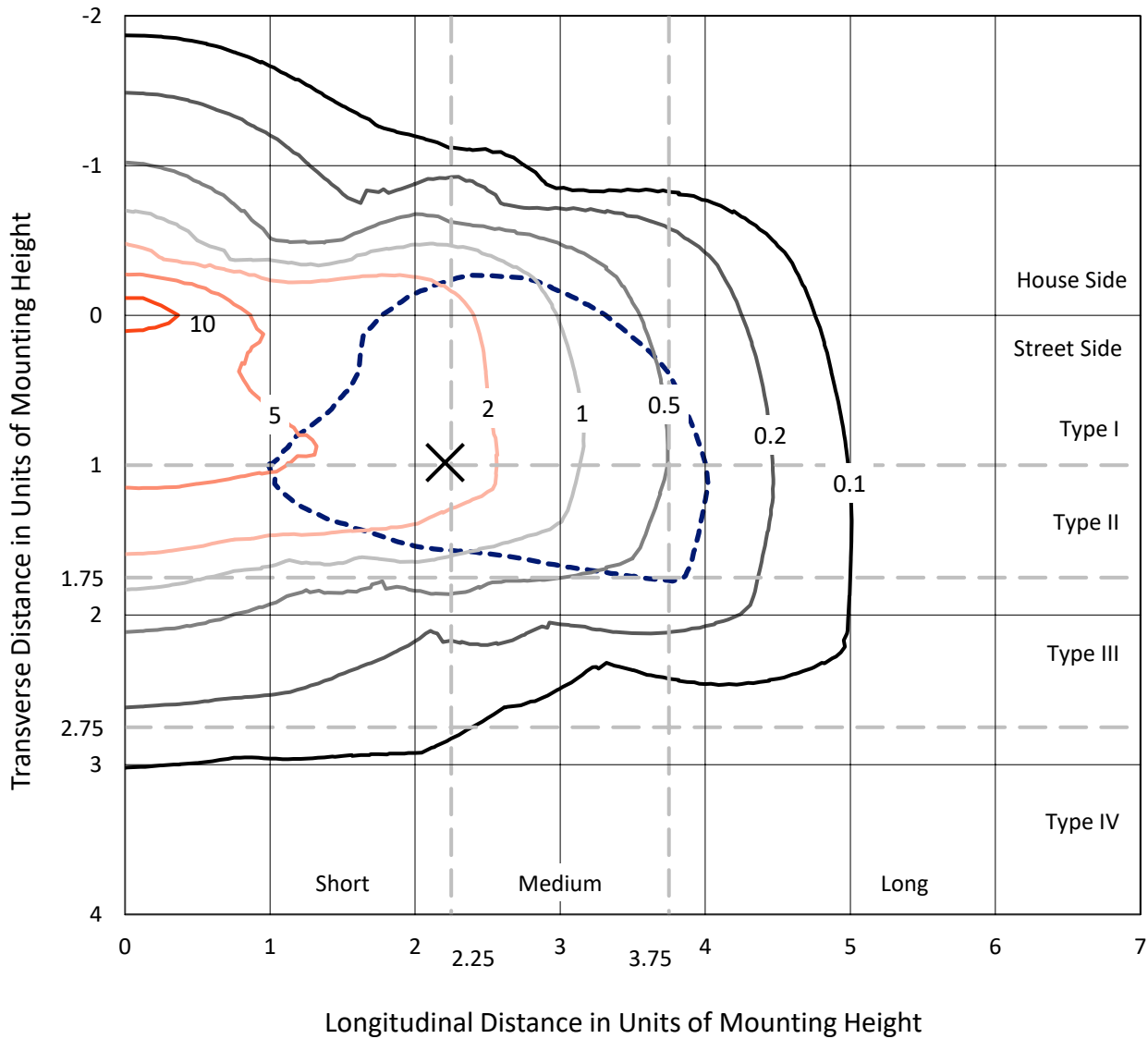
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

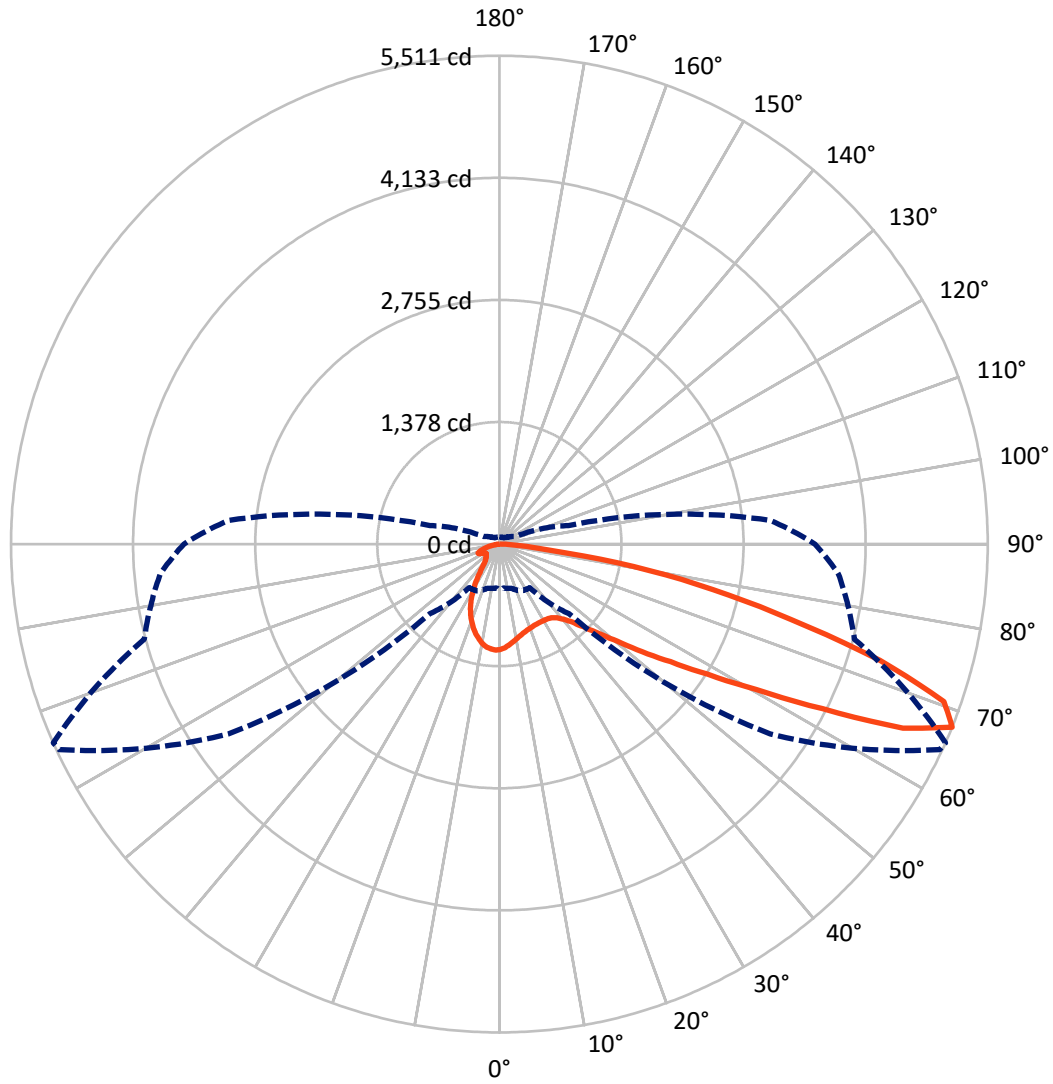
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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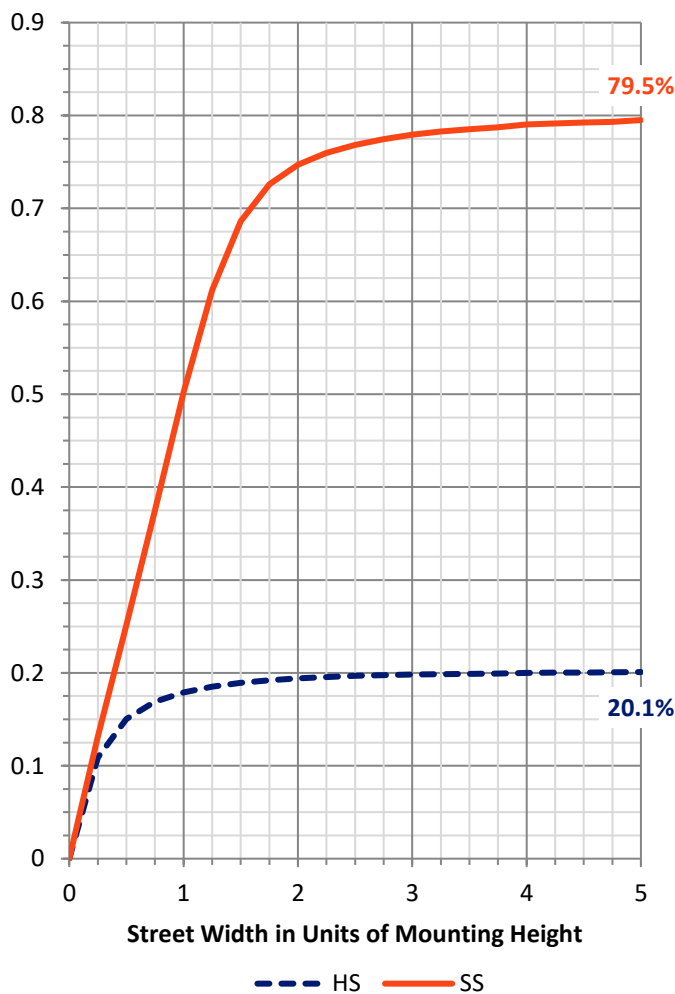
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1093.2	0.0	1093.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	4294.1	0.0	4294.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	5387.3	0.0	5387.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	1.9
10°-20°	256.8	4.8
20°-30°	352.9	6.6
30°-40°	482.5	9.0
40°-50°	731.1	13.6
50°-60°	1136.6	21.1
60°-70°	1383.7	25.7
70°-80°	842.9	15.6
80°-90°	96.3	1.8
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°	5387.3	100.0
0°-180°	5387.3	100.0

Coefficient of Utilization



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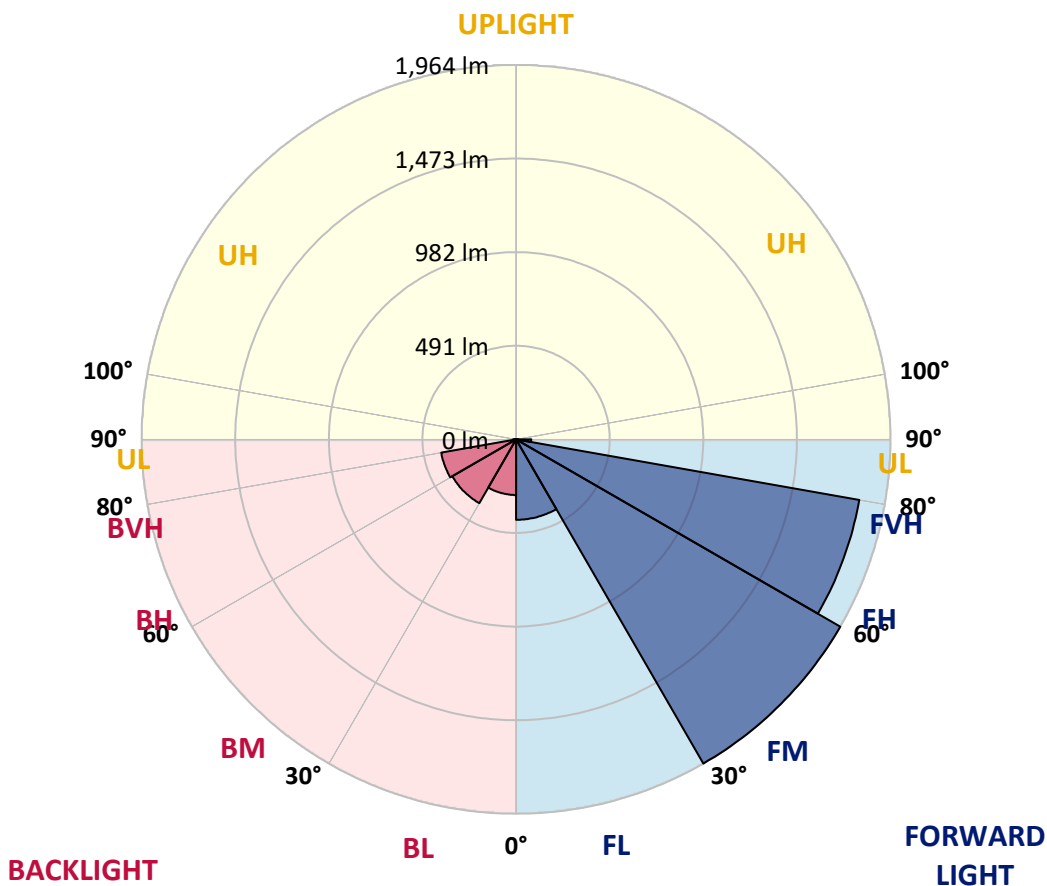
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.1	7.8			
FM (30°-60°)	1963.9	36.5			
FH (60°-80°)	1828.0	33.9			G2/5000
FVH (80°-90°)	80.0	1.5			G1/100
BL (0°-30°)	292.0	5.4	B1/500		
BM (30°-60°)	386.3	7.2	B1/1000		
BH (60°-80°)	398.6	7.4	B1/500		G1/500
BVH (80°-90°)	16.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4
2.5°	1115.0	1118.9	1116.6	1131.5	1132.3	1151.1	1161.8	1170.8	1171.6	1183.4	1191.2
5°	1038.7	1041.1	1041.1	1055.2	1064.7	1089.8	1114.2	1140.1	1142.1	1170.4	1192.0
7.5°	977.0	979.4	977.8	996.7	1008.9	1036.8	1067.8	1107.5	1111.4	1157.0	1194.8
10°	928.7	927.9	931.8	949.1	964.9	998.3	1032.8	1078.0	1083.9	1141.7	1197.9
12.5°	895.7	896.5	898.8	916.9	933.8	966.8	1002.6	1051.7	1058.0	1124.0	1196.3
15°	880.0	878.4	880.4	896.9	913.0	942.1	979.0	1029.7	1036.0	1108.3	1196.7
17.5°	876.4	875.2	874.8	886.6	898.8	925.9	961.3	1012.8	1019.5	1098.1	1199.1
20°	887.4	885.9	881.5	886.6	891.7	914.5	948.7	1000.6	1008.1	1091.4	1203.8
22.5°	917.7	914.9	908.3	902.0	895.3	909.0	940.9	991.6	999.0	1087.1	1208.5
25°	963.7	961.3	954.2	940.1	915.7	913.4	939.3	987.6	995.1	1083.9	1210.5
27.5°	1026.9	1023.4	1016.3	995.9	956.2	929.5	945.2	987.3	994.3	1080.4	1208.5
30°	1102.0	1099.7	1095.7	1071.0	1017.9	963.7	958.6	990.4	995.9	1078.4	1204.6
32.5°	1178.3	1175.9	1179.0	1167.3	1102.0	1020.3	987.6	999.0	1003.0	1078.0	1201.1
35°	1245.5	1248.2	1271.0	1273.0	1208.9	1096.9	1033.6	1019.1	1019.9	1085.9	1202.6
37.5°	1315.8	1326.4	1356.3	1381.8	1328.4	1198.3	1102.0	1056.8	1056.0	1105.9	1212.4
40°	1409.0	1413.7	1451.8	1499.7	1466.3	1337.4	1199.1	1118.5	1113.0	1146.8	1238.8
42.5°	1499.7	1511.1	1572.1	1627.1	1616.1	1494.2	1321.3	1210.9	1201.1	1219.1	1293.0
45°	1615.3	1626.3	1694.7	1765.4	1785.5	1671.5	1477.7	1342.1	1332.3	1328.0	1392.4
47.5°	1730.8	1742.2	1803.5	1905.7	1976.1	1893.1	1681.3	1515.5	1499.3	1482.4	1542.6
50°	1808.7	1822.0	1880.6	2003.2	2168.3	2169.8	1922.6	1742.6	1722.2	1695.5	1754.0
52.5°	1805.9	1814.5	1870.4	2011.8	2306.6	2487.8	2245.7	2031.9	2015.4	1957.2	2008.3
55°	1664.0	1677.0	1733.2	1910.0	2321.5	2789.2	2720.4	2373.0	2343.5	2239.4	2295.6
57.5°	1379.1	1390.1	1446.7	1664.8	2189.1	2943.7	3323.3	2807.7	2767.2	2546.7	2611.6
60°	1041.1	1027.7	1054.5	1245.5	1872.3	2947.6	3855.5	3397.2	3329.6	2875.3	2929.5
62.5°	781.3	767.9	773.8	827.7	1269.4	2709.4	4158.9	4203.7	4092.1	3246.3	3235.7
65°	617.4	610.0	626.9	663.8	740.0	2063.3	4161.2	5075.8	5005.4	3676.3	3549.7
67.5°	503.1	498.3	515.6	584.0	600.1	1108.7	3731.3	5482.9	5510.5	4147.1	3840.9
70°	405.2	398.1	425.2	515.2	558.1	670.9	2672.9	5275.4	5319.8	4427.7	3758.8
72.5°	279.8	280.2	294.0	417.4	538.8	579.3	1511.9	4392.7	4489.0	4173.4	3304.5
75°	188.6	190.2	194.1	275.5	496.4	562.0	805.7	3325.7	3393.7	3449.5	2731.4
77.5°	114.0	114.8	123.8	166.6	342.3	524.7	545.9	2410.7	2464.2	2274.0	1693.1
80°	66.0	68.8	77.0	111.6	231.1	394.2	422.5	1478.1	1538.7	1010.8	538.0
82.5°	29.1	31.0	42.1	64.8	134.8	335.2	329.7	584.0	575.4	281.8	186.7
85°	5.1	6.3	9.0	20.4	49.5	176.9	255.9	257.8	242.5	106.9	77.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	38.5	69.2	68.8	30.3	26.7
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°	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4	1190.4
2.5°	1196.3	1185.7	1195.2	1196.3	1194.4	1192.8	1181.0	1170.8	1169.6	1158.6	1158.6
5°	1200.7	1190.8	1195.5	1186.5	1172.4	1157.8	1132.7	1115.4	1107.5	1093.4	1093.4
7.5°	1206.6	1196.3	1190.8	1168.4	1135.4	1103.6	1063.1	1029.3	1015.5	995.5	994.7
10°	1212.1	1199.1	1180.2	1136.6	1083.9	1033.2	974.3	926.3	893.7	869.7	869.7
12.5°	1211.7	1194.8	1157.4	1093.0	1020.3	946.8	868.2	795.9	752.6	715.3	712.9
15°	1210.9	1187.7	1128.3	1042.3	946.0	844.2	737.3	643.0	578.9	542.4	539.2
17.5°	1210.1	1178.6	1095.7	984.5	855.6	716.9	575.8	473.6	420.1	397.7	398.5
20°	1210.1	1168.4	1060.7	918.1	751.4	564.4	422.5	348.2	334.8	336.0	337.2
22.5°	1206.6	1155.9	1021.8	845.8	635.5	415.0	311.7	286.5	293.6	304.6	306.2
25°	1198.3	1135.0	976.6	765.6	497.6	302.2	254.3	249.6	262.5	276.3	280.2
27.5°	1185.3	1111.1	925.9	671.7	366.3	242.9	223.6	223.2	233.5	243.7	247.2
30°	1171.6	1084.3	872.5	567.1	265.3	211.4	204.0	204.0	209.1	215.4	214.6
32.5°	1155.5	1057.2	815.1	458.3	216.2	193.8	191.4	190.2	191.0	193.4	193.4
35°	1141.7	1033.2	756.2	343.1	193.8	183.9	181.6	178.8	177.6	176.1	176.9
37.5°	1136.6	1014.4	695.2	258.6	182.8	176.9	172.9	169.0	166.2	165.5	165.1
40°	1144.9	1006.5	634.3	213.0	174.9	169.4	165.1	160.0	157.6	157.6	157.6
42.5°	1177.1	1012.4	572.2	192.6	169.4	163.1	156.8	152.1	151.3	152.1	152.5
45°	1236.0	1035.2	507.8	182.4	164.7	156.8	149.3	145.8	145.8	146.6	146.6
47.5°	1341.4	1094.9	444.1	176.1	160.0	151.7	143.8	140.3	139.9	140.7	140.7
50°	1523.7	1202.6	386.7	171.7	156.4	147.8	139.9	135.2	134.0	133.6	133.6
52.5°	1753.6	1389.3	350.2	168.6	152.1	143.5	135.6	129.3	126.9	125.8	125.8
55°	2031.5	1638.1	350.2	166.2	146.6	138.3	129.3	123.0	119.5	117.9	117.9
57.5°	2346.3	1927.7	410.7	164.3	142.3	132.4	122.6	116.3	112.4	110.0	110.0
60°	2666.6	2233.9	560.4	161.5	138.3	125.0	115.2	109.3	104.1	101.4	101.0
62.5°	2998.7	2571.1	757.7	163.1	135.6	117.9	107.3	100.6	96.3	93.5	93.1
65°	3302.9	2892.2	930.3	175.3	136.0	111.6	98.3	92.4	88.8	85.3	84.9
67.5°	3561.1	3069.4	809.2	200.0	144.2	104.1	89.2	83.3	80.2	77.8	77.4
70°	3380.3	2799.0	459.0	215.4	155.6	96.3	79.0	75.1	71.9	70.3	70.0
72.5°	2890.6	2369.9	306.9	190.2	141.9	86.1	69.6	66.4	64.1	62.1	61.7
75°	2341.6	1879.4	234.6	156.0	110.4	70.0	59.7	57.4	55.0	53.1	52.7
77.5°	1385.4	1085.9	172.9	123.4	77.8	54.6	49.5	47.6	45.2	43.6	43.2
80°	442.1	377.3	109.7	84.9	51.5	42.1	38.1	36.6	34.2	32.2	31.8
82.5°	168.6	145.8	58.2	43.2	34.2	28.7	25.5	24.0	22.4	20.4	20.0
85°	74.7	70.0	32.2	23.2	18.5	14.1	12.6	11.8	9.8	8.3	7.9
87.5°	26.3	26.3	13.8	6.7	3.9	2.0	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)