

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: P631357

Luminaire Tested: GWS-SA1F-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8352.7 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

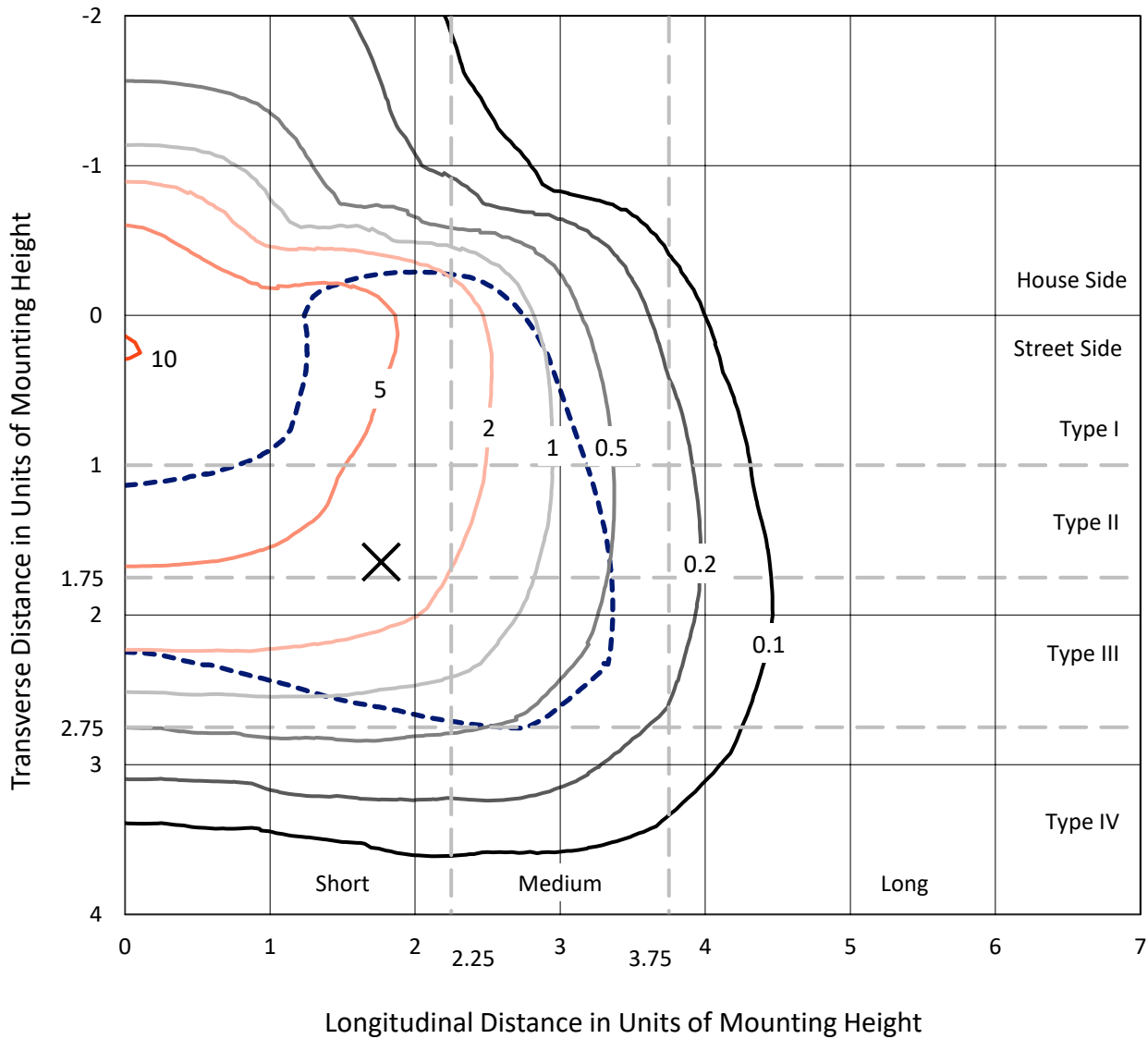
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

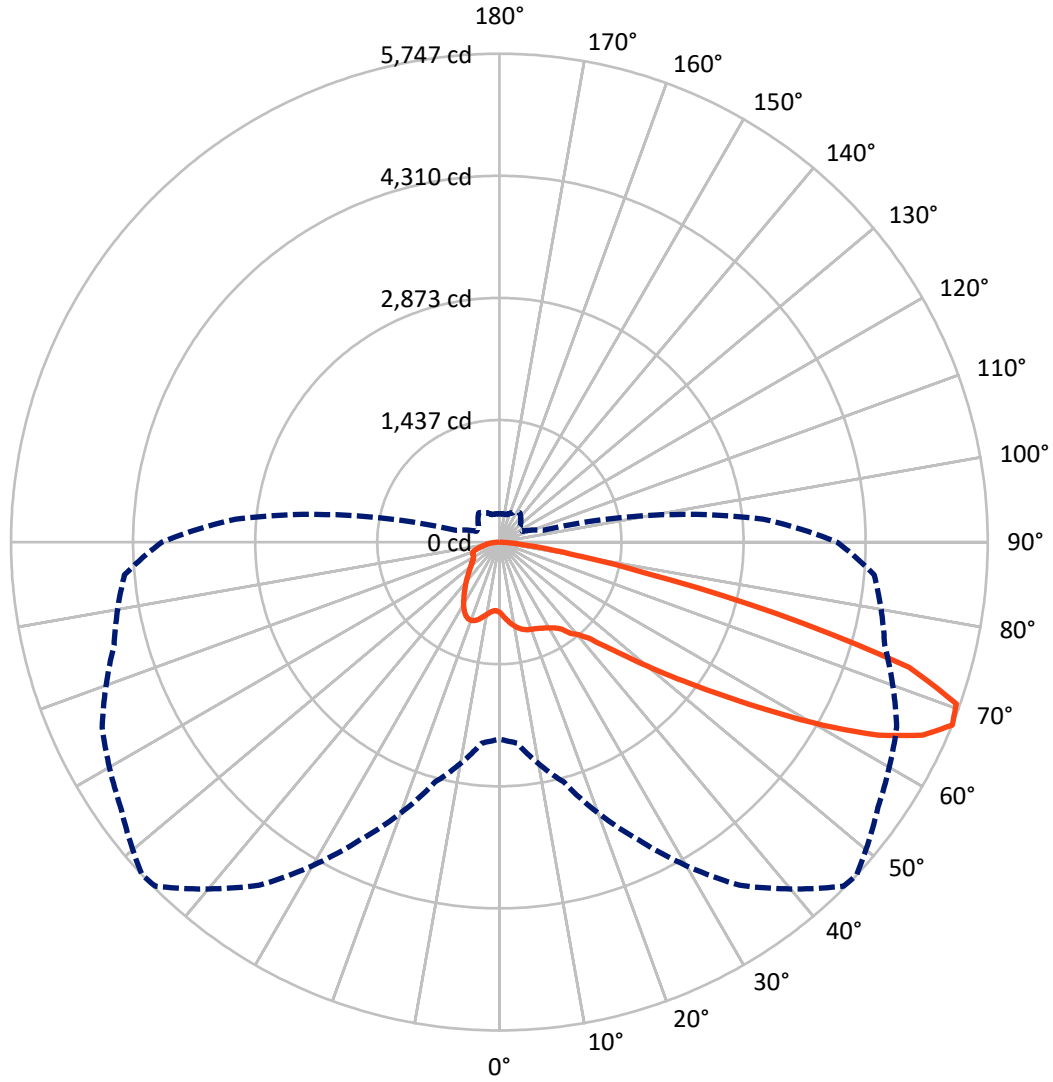
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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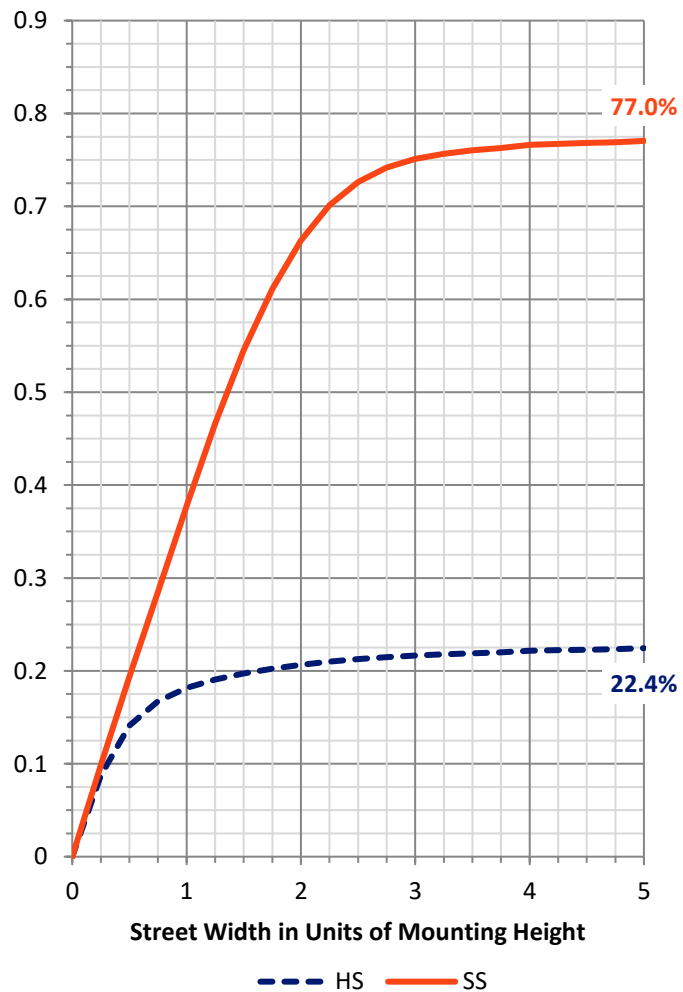
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1903.6	0.0	1903.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	6449.1	0.0	6449.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	8352.7	0.0	8352.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	1.0
10°-20°	281.9	3.4
20°-30°	479.2	5.7
30°-40°	702.0	8.4
40°-50°	1069.6	12.8
50°-60°	1913.7	22.9
60°-70°	2553.7	30.6
70°-80°	1154.8	13.8
80°-90°	113.1	1.4
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°	8352.7	100.0
0°-180°	8352.7	100.0

Coefficient of Utilization



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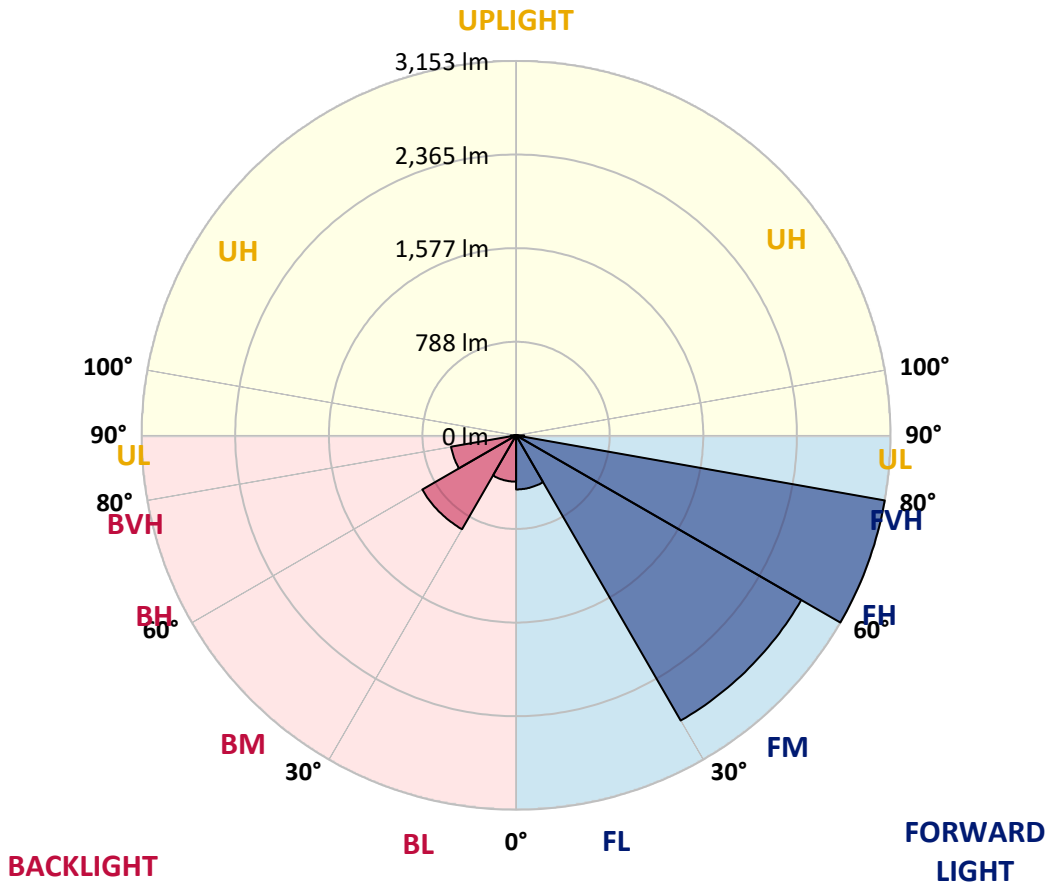
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.5	5.5			
FM (30°-60°)	2773.2	33.2			
FH (60°-80°)	3153.1	37.7			G2/5000
FVH (80°-90°)	67.3	0.8			G1/100
BL (0°-30°)	390.3	4.7	B1/500		
BM (30°-60°)	912.1	10.9	B1/1000		
BH (60°-80°)	555.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	45.8	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0
2.5°	883.0	886.0	885.4	880.6	877.5	872.1	872.7	864.3	851.6	843.1	833.5
5°	960.9	965.7	959.7	951.8	939.7	922.2	920.4	901.1	876.9	860.0	842.5
7.5°	1028.5	1031.5	1024.3	1011.0	993.5	969.9	965.7	942.8	912.6	886.0	860.6
10°	1081.1	1084.7	1075.0	1057.5	1034.6	1011.0	1008.0	984.4	952.4	921.0	889.0
12.5°	1125.8	1127.0	1116.7	1093.2	1068.4	1044.2	1041.2	1019.5	989.9	957.9	922.8
15°	1151.7	1152.3	1139.7	1113.7	1090.1	1069.0	1067.2	1048.5	1021.3	991.1	953.6
17.5°	1149.9	1151.1	1142.1	1119.1	1098.6	1085.9	1084.1	1072.0	1050.9	1023.7	986.3
20°	1127.6	1128.8	1122.7	1107.6	1096.8	1093.2	1093.8	1090.1	1077.4	1055.1	1017.1
22.5°	1110.1	1111.9	1106.4	1095.6	1094.4	1102.8	1104.6	1106.4	1100.4	1080.5	1043.6
25°	1118.5	1121.5	1113.1	1098.0	1100.4	1119.1	1122.7	1128.8	1124.0	1107.0	1075.0
27.5°	1177.1	1178.9	1157.2	1126.4	1119.1	1139.1	1144.5	1154.2	1150.5	1134.8	1110.1
30°	1313.0	1311.8	1265.3	1189.8	1159.6	1167.4	1171.7	1185.6	1186.8	1176.5	1152.9
32.5°	1504.4	1498.4	1426.5	1306.3	1218.8	1199.4	1204.3	1223.0	1236.9	1226.0	1194.0
35°	1706.8	1701.3	1622.2	1481.5	1328.1	1261.0	1255.6	1270.1	1291.2	1261.0	1215.1
37.5°	1899.4	1891.0	1810.0	1636.1	1462.8	1369.2	1361.3	1346.8	1334.1	1276.1	1241.1
40°	2113.2	2103.6	2032.9	1836.0	1611.3	1451.9	1432.0	1374.6	1363.1	1326.3	1308.8
42.5°	2341.5	2341.5	2282.9	2089.1	1790.7	1570.3	1544.3	1457.9	1470.0	1445.9	1425.3
45°	2569.8	2576.5	2530.0	2343.9	2030.5	1793.7	1752.1	1629.5	1658.4	1647.6	1637.3
47.5°	2764.3	2777.0	2767.9	2604.2	2324.0	2065.5	2002.1	1874.7	1936.9	1962.8	1991.8
50°	2973.9	2987.7	2978.7	2914.1	2667.7	2394.7	2337.9	2206.2	2313.1	2391.0	2485.9
52.5°	3284.9	3304.8	3229.3	3204.6	3085.0	2768.5	2717.8	2568.0	2761.9	2891.1	3102.5
55°	3547.6	3547.0	3520.4	3577.2	3533.1	3225.7	3169.5	3033.6	3281.3	3418.4	3727.6
57.5°	3669.6	3684.1	3775.3	3935.9	4024.1	3784.4	3730.6	3591.7	3838.7	3910.0	4244.0
60°	3732.4	3750.5	3926.9	4244.6	4481.9	4394.3	4373.2	4196.3	4335.2	4326.7	4679.4
62.5°	3644.2	3680.5	3963.7	4385.9	4808.7	5007.4	5000.7	4733.2	4757.3	4674.6	4949.4
65°	3239.6	3278.9	3723.4	4315.2	4995.3	5473.6	5475.4	5219.3	5081.6	4843.7	4904.1
67.5°	2316.8	2372.9	2922.5	3861.1	4929.4	5725.5	5746.6	5439.8	5157.7	4693.9	4428.2
70°	1262.9	1303.9	1734.5	2806.6	4336.4	5665.1	5704.3	5333.5	4821.9	4060.4	3408.7
72.5°	573.8	587.0	806.9	1540.1	2962.4	4876.3	5040.6	4759.7	3960.1	2999.2	2167.6
75°	262.7	268.8	351.5	736.8	1547.9	3263.1	3378.5	3545.2	2755.8	1894.0	1130.0
77.5°	164.9	166.7	199.9	337.0	771.8	1628.9	1750.3	2110.8	1613.8	937.3	472.3
80°	97.2	99.0	124.4	182.4	362.4	745.3	860.6	834.7	758.6	404.6	215.0
82.5°	48.9	50.7	71.9	103.9	197.5	296.5	349.1	350.9	282.6	219.2	121.4
85°	17.5	18.1	23.6	41.1	83.9	97.8	109.3	133.5	138.3	127.4	58.6
87.5°	0.0	0.0	0.6	1.2	2.4	9.7	10.3	19.3	40.5	45.3	23.6
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°	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0	828.0
2.5°	830.4	821.4	818.4	815.3	810.5	808.7	805.1	801.4	801.4	797.8	796.0
5°	834.7	822.6	814.7	811.1	808.1	809.9	809.9	811.1	815.3	812.9	814.1
7.5°	849.8	835.9	825.0	822.0	822.0	829.2	834.1	840.1	847.9	849.2	849.2
10°	876.3	860.0	848.6	846.7	849.8	860.0	867.3	874.5	884.2	884.8	886.0
12.5°	905.3	889.0	877.5	880.0	883.0	896.3	904.1	910.2	919.8	919.8	919.2
15°	935.5	917.4	907.7	912.6	921.6	936.7	937.9	938.5	943.4	942.2	941.6
17.5°	966.9	947.6	940.4	947.6	957.3	964.5	958.5	950.0	948.2	945.8	944.6
20°	997.7	977.8	974.8	980.2	983.2	977.2	958.5	942.8	935.5	931.9	930.7
22.5°	1024.3	1007.4	1005.6	1005.6	990.5	969.3	941.6	920.4	910.8	905.9	904.7
25°	1055.7	1040.0	1037.0	1020.7	982.0	943.4	905.9	886.6	878.7	876.3	876.9
27.5°	1092.5	1081.7	1072.0	1025.5	957.9	897.5	855.2	846.7	843.7	846.7	848.6
30°	1137.8	1127.0	1105.2	1019.5	919.2	837.7	797.2	796.6	805.7	813.5	814.7
32.5°	1174.7	1169.9	1134.2	1000.1	864.9	771.8	737.4	739.8	756.1	767.0	768.8
35°	1203.7	1211.5	1158.4	968.1	800.2	709.6	682.5	683.7	692.7	707.8	708.4
37.5°	1244.7	1271.3	1180.1	919.2	725.9	655.9	631.1	622.1	620.9	625.1	626.3
40°	1327.5	1367.3	1195.8	847.9	654.1	607.6	579.8	562.3	547.2	535.7	532.1
42.5°	1452.5	1498.4	1204.9	761.6	590.1	559.9	528.5	506.1	479.5	455.4	446.9
45°	1682.0	1697.1	1204.9	669.8	533.3	515.2	483.8	457.2	423.4	395.0	388.9
47.5°	2049.2	2000.9	1206.1	581.0	483.2	475.9	448.7	418.5	381.1	357.5	353.9
50°	2602.4	2432.7	1230.9	507.3	441.5	442.7	422.8	389.5	355.7	338.2	335.2
52.5°	3229.3	2964.8	1297.3	453.0	406.5	415.5	404.6	372.6	342.4	327.3	324.3
55°	3818.8	3454.0	1354.1	414.3	376.9	392.6	392.0	362.4	335.2	320.1	318.3
57.5°	4320.1	3789.2	1345.6	382.9	351.5	371.4	380.5	355.7	330.4	317.7	315.9
60°	4631.7	3966.8	1225.4	353.9	332.2	356.3	373.8	353.9	332.8	329.8	330.4
62.5°	4767.0	3934.1	994.7	332.2	319.5	349.1	381.1	366.6	355.1	362.4	366.6
65°	4556.8	3653.9	732.0	315.9	307.4	350.9	398.0	386.5	355.1	360.0	361.8
67.5°	3973.4	3110.3	529.1	299.6	292.3	356.3	422.2	383.5	334.6	334.6	331.0
70°	2863.3	2237.0	384.1	283.3	277.2	348.5	423.4	363.0	311.0	309.2	300.2
72.5°	1723.1	1319.6	299.6	265.1	254.3	309.2	396.8	338.8	288.1	273.0	262.1
75°	895.1	661.3	251.2	245.2	218.0	262.1	363.0	301.4	246.4	233.1	227.1
77.5°	383.5	309.2	215.6	218.6	181.2	220.4	292.9	260.9	218.6	201.7	196.3
80°	189.0	175.7	170.3	175.1	144.9	170.3	252.5	228.3	185.4	166.1	158.2
82.5°	108.1	102.7	122.6	124.4	103.3	142.5	213.2	193.3	153.4	132.3	119.6
85°	50.1	53.8	74.3	74.9	64.0	97.8	139.5	108.7	81.5	67.6	64.6
87.5°	19.9	23.6	32.6	32.0	18.7	18.1	12.1	6.6	5.4	4.8	4.2
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)