

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: P631593

Luminaire Tested: GWS-SA2B-722-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631593  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-722-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

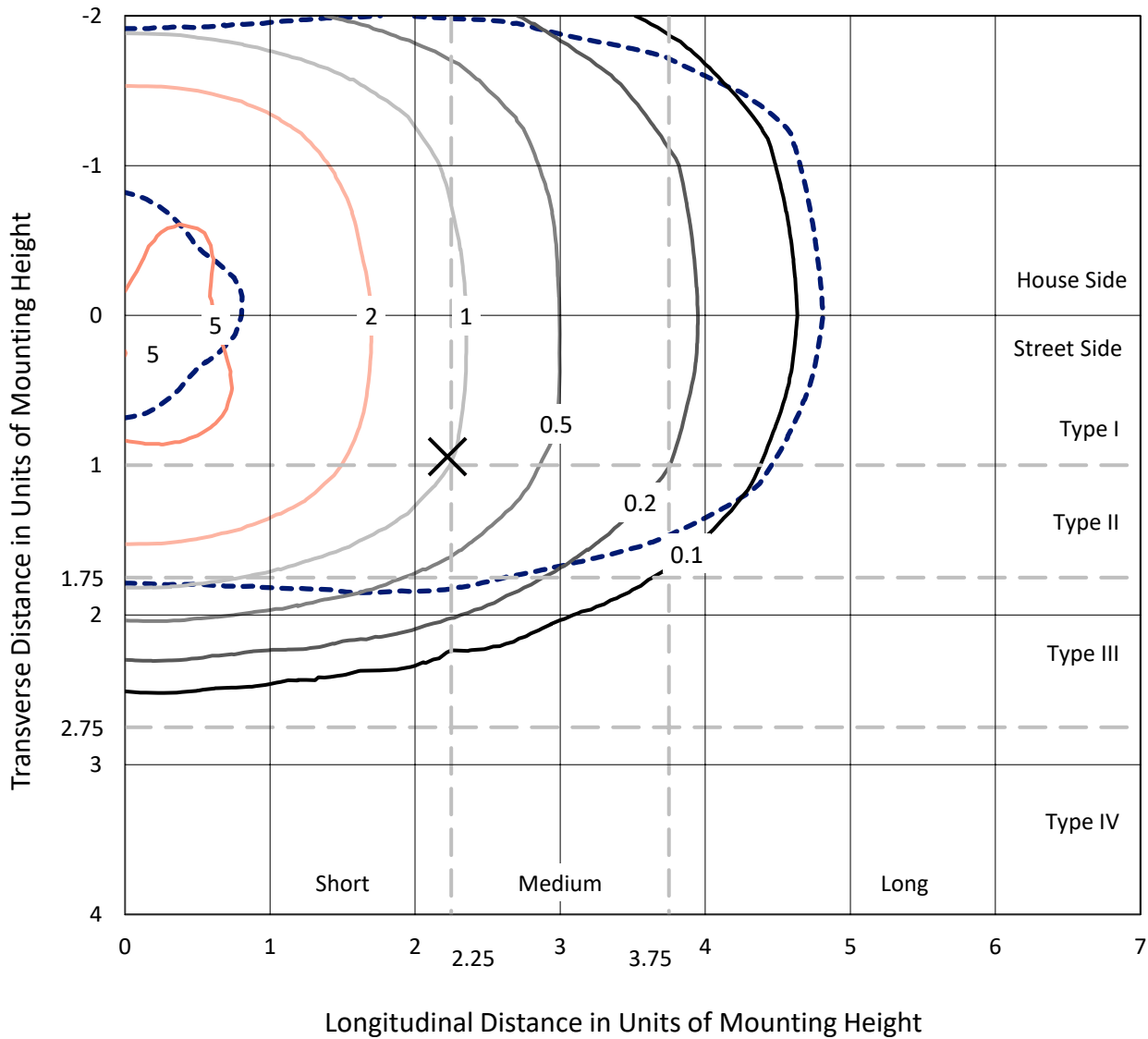
Lumens per Lamp: N/A  
Luminaire Lumens: 5233 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

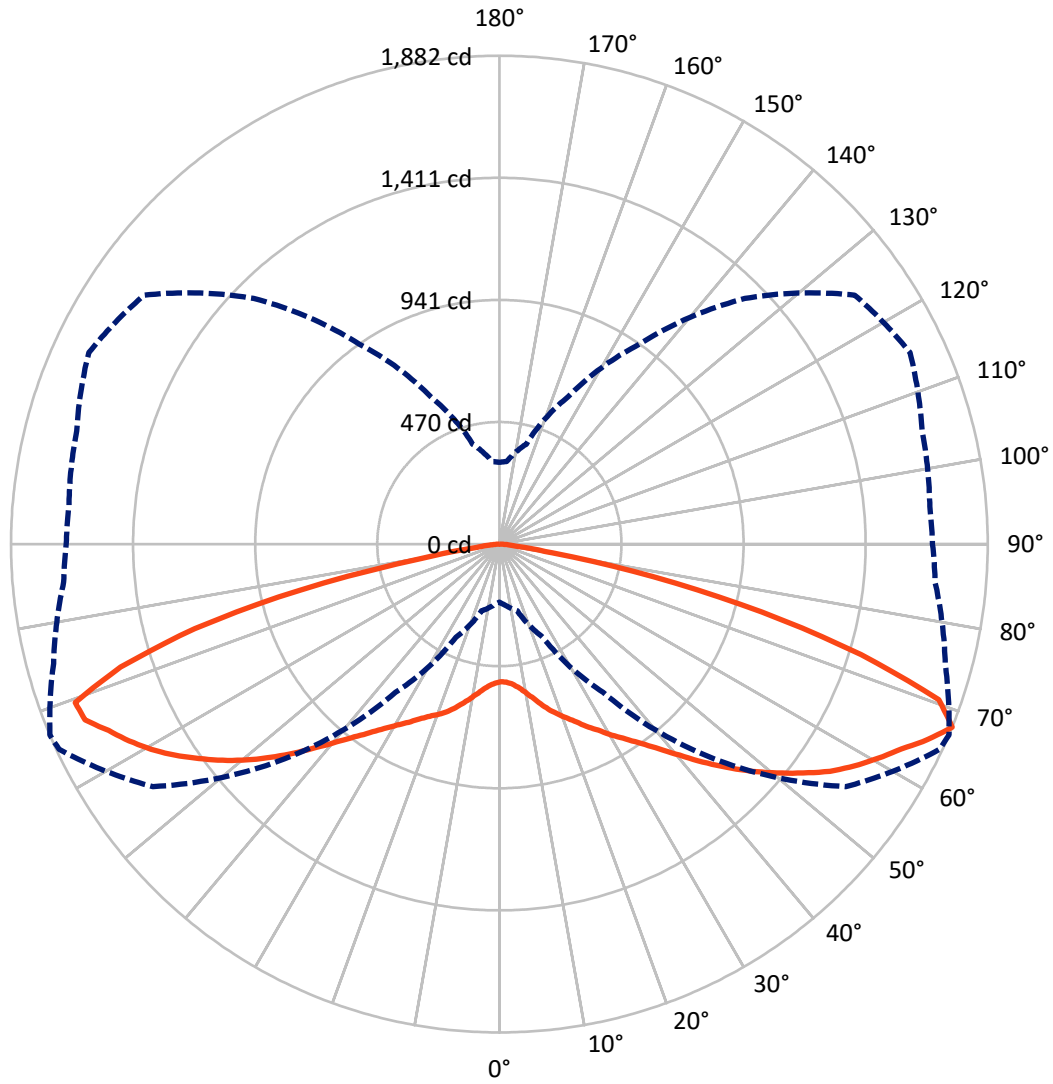
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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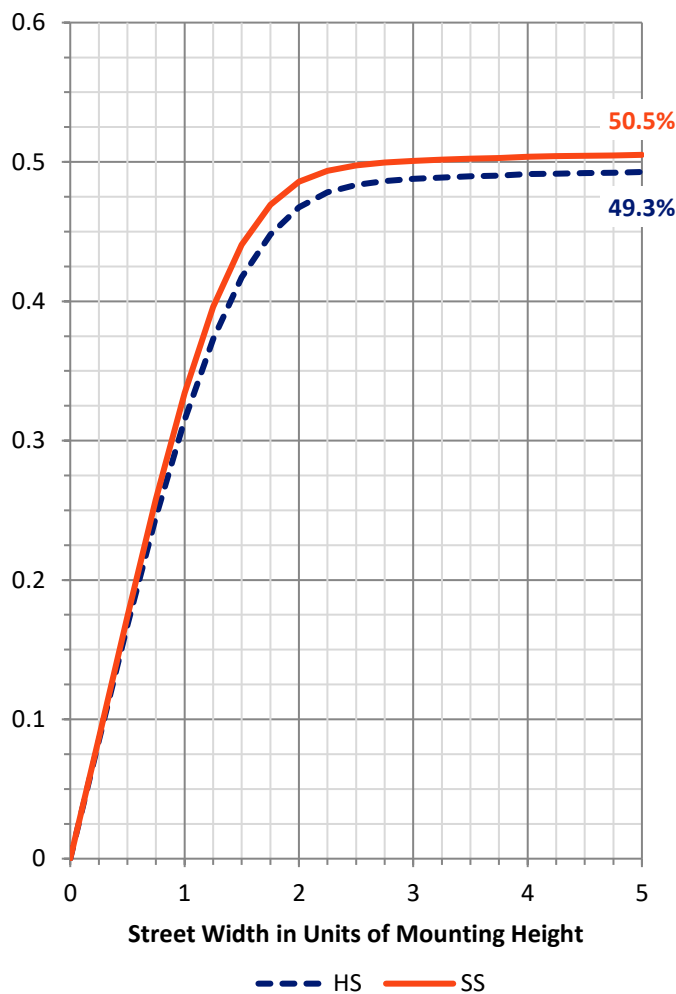
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2587.6	0.0	2587.6
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	2645.4	0.0	2645.4
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	5233.0	0.0	5233.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	1.0
10°-20°	175.6	3.4
20°-30°	344.6	6.6
30°-40°	587.1	11.2
40°-50°	942.7	18.0
50°-60°	1280.9	24.5
60°-70°	1225.3	23.4
70°-80°	582.6	11.1
80°-90°	42.2	0.8
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°	5233.0	100.0
0°-180°	5233.0	100.0

**Coefficient of Utilization**



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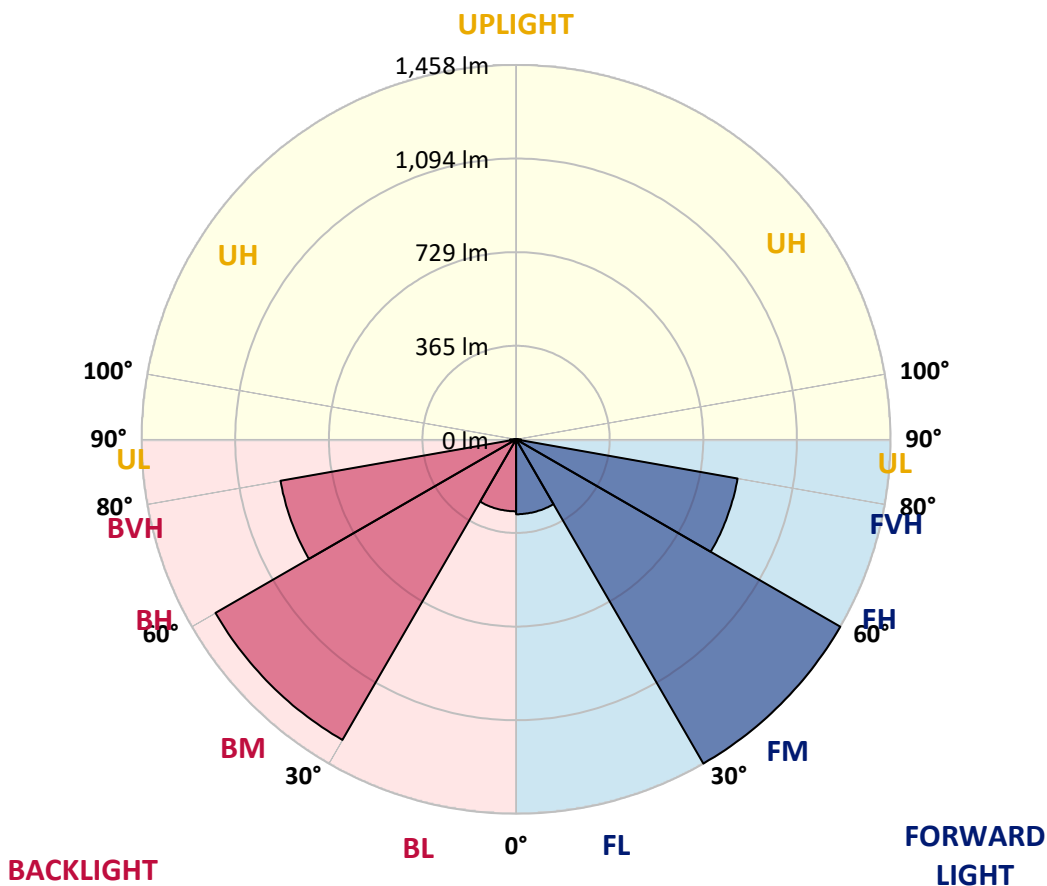
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.8	5.6			
FM (30°-60°)	1458.5	27.9			
FH (60°-80°)	876.1	16.7			G1/1800
FVH (80°-90°)	19.0	0.4			G1/100
BL (0°-30°)	280.4	5.4	B1/500		
BM (30°-60°)	1352.2	25.8	B2/2500		
BH (60°-80°)	931.7	17.8	B2/1000		G2/1000
BVH (80°-90°)	23.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9
2.5°	518.9	519.7	520.8	522.9	525.1	528.4	531.7	531.3	532.8	533.9	535.0
5°	516.0	516.8	518.6	521.5	524.8	530.2	537.2	540.1	542.3	546.3	549.9
7.5°	522.2	523.7	526.2	530.2	535.3	542.3	551.7	556.8	560.1	567.4	573.6
10°	530.6	532.4	537.5	545.2	552.8	563.4	575.4	583.1	585.3	594.7	606.4
12.5°	538.6	540.8	549.2	563.0	576.9	591.1	605.3	614.8	615.5	628.3	641.4
15°	551.4	553.2	564.5	582.3	603.5	623.2	640.7	647.2	650.1	659.2	675.6
17.5°	579.4	581.6	596.2	615.5	637.7	658.5	676.0	681.5	681.5	689.1	702.6
20°	609.7	611.9	631.2	656.0	682.9	704.1	717.5	712.4	710.6	712.8	722.3
22.5°	643.6	647.6	666.2	695.0	728.1	754.0	760.9	745.6	740.5	735.4	737.6
25°	686.9	691.7	709.9	740.5	772.9	800.3	804.3	780.6	777.7	759.8	753.3
27.5°	736.9	740.5	763.1	793.3	823.6	846.6	850.9	821.8	811.9	787.2	771.8
30°	801.4	804.6	824.3	854.2	880.4	896.5	901.9	861.9	854.2	816.3	792.6
32.5°	871.7	873.2	893.2	922.0	945.3	960.6	953.0	906.3	895.0	852.4	820.0
35°	952.2	952.2	978.1	1001.4	1020.0	1024.4	1009.8	956.6	943.5	897.2	856.8
37.5°	1031.3	1033.5	1057.6	1085.3	1101.6	1100.9	1074.3	1016.0	1001.1	950.8	906.0
40°	1117.0	1121.7	1145.7	1176.7	1192.4	1190.2	1149.4	1084.5	1069.2	1009.8	966.1
42.5°	1195.7	1203.3	1231.4	1263.1	1280.2	1278.8	1236.1	1163.2	1148.3	1081.2	1037.5
45°	1258.4	1266.4	1301.4	1345.4	1372.8	1370.2	1327.2	1244.9	1226.6	1156.3	1108.2
47.5°	1313.4	1321.8	1360.8	1407.4	1450.8	1455.1	1415.8	1327.2	1307.9	1236.9	1182.6
50°	1355.7	1359.7	1403.4	1454.4	1504.7	1529.1	1494.9	1410.0	1386.6	1316.3	1255.1
52.5°	1352.4	1357.8	1411.8	1481.0	1548.4	1588.5	1564.8	1487.9	1465.3	1388.8	1329.0
55°	1285.7	1291.1	1355.3	1456.2	1572.8	1631.9	1629.3	1562.3	1545.9	1462.8	1405.9
57.5°	1188.4	1200.4	1264.2	1373.1	1540.8	1666.5	1676.7	1630.1	1612.9	1535.3	1482.1
60°	1014.2	1030.2	1103.8	1245.2	1438.0	1654.8	1727.4	1687.3	1676.7	1602.7	1551.0
62.5°	736.9	748.5	846.6	1032.0	1285.7	1571.8	1770.0	1746.3	1738.3	1663.2	1613.3
65°	441.3	467.9	546.6	729.9	1037.1	1415.1	1746.7	1823.6	1815.2	1725.5	1666.5
67.5°	223.4	235.4	266.4	395.8	697.5	1170.9	1629.7	1871.7	1881.9	1778.7	1685.5
70°	138.5	141.8	150.5	195.3	348.4	769.3	1332.7	1746.3	1796.2	1770.4	1636.3
72.5°	111.1	111.9	113.3	121.7	167.3	359.7	842.5	1367.7	1457.7	1653.4	1565.9
75°	92.2	92.6	92.9	95.5	104.2	146.9	410.0	939.8	1045.2	1405.2	1451.9
77.5°	74.0	72.2	73.6	74.7	76.9	82.0	141.4	501.4	608.2	922.4	1122.8
80°	48.1	47.4	50.3	51.4	53.6	56.8	75.4	170.2	206.6	335.6	357.1
82.5°	25.9	24.4	30.6	29.5	30.6	33.2	44.5	62.3	70.0	101.3	85.6
85°	8.0	8.0	8.4	9.8	12.0	11.7	19.3	30.6	33.9	43.4	32.1
87.5°	1.5	1.5	1.5	1.5	1.5	1.8	4.0	6.2	8.4	14.9	11.3
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°	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9
2.5°	537.2	533.9	535.7	536.8	536.4	535.7	532.1	531.3	529.5	526.6	525.9
5°	553.2	549.5	549.9	548.8	545.2	540.4	532.4	528.4	525.1	521.5	521.1
7.5°	578.3	574.3	573.2	568.1	557.9	547.0	534.2	527.0	521.5	516.8	516.0
10°	610.4	606.4	602.8	590.7	574.0	559.4	542.6	532.1	524.0	518.2	517.1
12.5°	646.1	642.8	633.7	616.2	596.2	579.1	561.9	548.8	537.2	528.4	527.3
15°	685.8	678.6	664.7	642.1	623.2	609.3	588.5	570.7	552.1	540.4	537.9
17.5°	713.5	707.3	690.9	669.1	654.1	642.1	617.7	592.2	567.0	549.9	546.3
20°	733.2	726.7	708.1	692.0	687.3	677.1	648.7	619.2	590.0	568.9	564.1
22.5°	747.4	740.5	721.6	713.5	720.1	718.3	690.6	657.1	622.4	597.3	591.5
25°	760.9	754.4	737.6	740.5	758.0	763.5	733.6	694.6	655.2	625.7	618.8
27.5°	773.7	765.3	757.6	773.7	798.4	808.7	776.9	732.9	690.2	660.0	654.5
30°	793.3	783.5	782.4	805.7	845.1	853.8	818.9	774.8	732.5	701.9	695.0
32.5°	818.1	809.0	809.7	844.7	890.3	897.6	867.7	826.5	784.2	753.6	744.2
35°	851.7	840.4	846.6	889.6	935.5	949.0	924.9	890.6	849.5	818.1	807.6
37.5°	897.9	881.5	894.3	939.5	985.8	1005.8	987.2	961.7	920.9	889.2	879.4
40°	957.0	943.5	948.6	998.5	1046.3	1070.3	1058.6	1033.5	993.1	959.9	948.6
42.5°	1026.9	1013.5	1011.6	1064.8	1112.6	1149.0	1137.7	1114.8	1072.9	1035.0	1024.0
45°	1095.5	1083.1	1085.6	1139.9	1193.5	1233.2	1221.9	1194.9	1149.4	1105.7	1096.9
47.5°	1166.9	1156.7	1158.9	1216.4	1275.5	1315.2	1301.0	1268.2	1215.0	1168.3	1157.8
50°	1240.1	1228.5	1231.7	1292.2	1356.0	1393.6	1371.7	1323.2	1264.5	1219.0	1209.9
52.5°	1313.0	1299.2	1307.5	1364.8	1430.7	1460.6	1420.2	1361.5	1304.6	1259.4	1249.2
55°	1396.8	1382.3	1373.1	1434.4	1499.6	1512.0	1456.6	1388.1	1320.7	1269.3	1263.1
57.5°	1473.4	1461.0	1443.8	1505.1	1553.2	1544.1	1484.7	1380.8	1281.7	1215.7	1207.0
60°	1541.9	1531.3	1516.4	1568.5	1590.3	1569.9	1462.1	1294.4	1185.5	1116.6	1112.6
62.5°	1604.9	1593.6	1579.8	1624.2	1621.3	1573.9	1359.3	1161.8	1016.0	942.0	935.5
65°	1654.8	1644.6	1640.6	1675.6	1670.9	1495.6	1199.3	944.6	742.3	658.9	656.3
67.5°	1669.1	1665.0	1686.5	1745.9	1672.0	1338.2	940.6	626.4	398.7	319.6	314.9
70°	1615.8	1615.5	1677.1	1762.0	1520.4	1022.2	555.0	282.4	200.4	177.8	174.9
72.5°	1546.6	1545.5	1594.3	1520.0	1127.5	559.4	233.6	151.2	125.4	119.2	119.2
75°	1432.9	1430.0	1466.8	1156.3	634.1	210.6	123.9	103.9	98.4	97.3	97.3
77.5°	1168.0	1143.6	1085.6	714.6	221.2	103.5	82.0	81.6	78.4	78.0	78.0
80°	384.1	384.1	446.4	272.6	97.7	63.8	57.9	60.9	57.6	55.4	55.0
82.5°	62.7	86.4	122.8	78.0	52.8	39.7	35.7	37.9	39.7	31.7	31.7
85°	24.8	32.4	47.4	36.4	24.4	16.0	17.1	18.9	16.8	14.6	14.2
87.5°	9.5	11.7	16.8	8.7	5.1	2.9	1.8	1.8	1.5	1.5	1.5
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)