

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: P631587

Luminaire Tested: GWS-SA2B-722-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-722-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

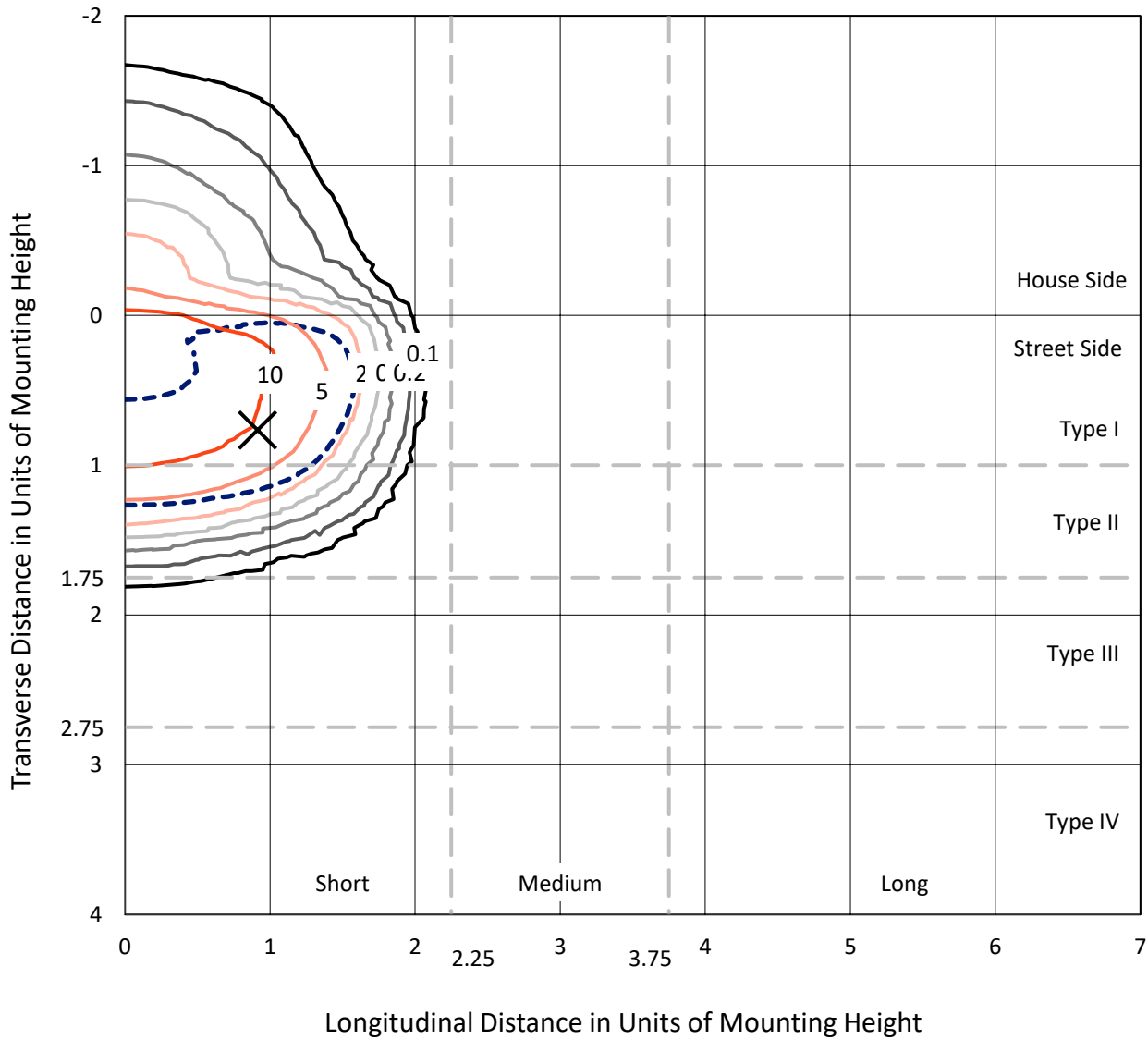
Lumens per Lamp: N/A  
Luminaire Lumens: 3828.5 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

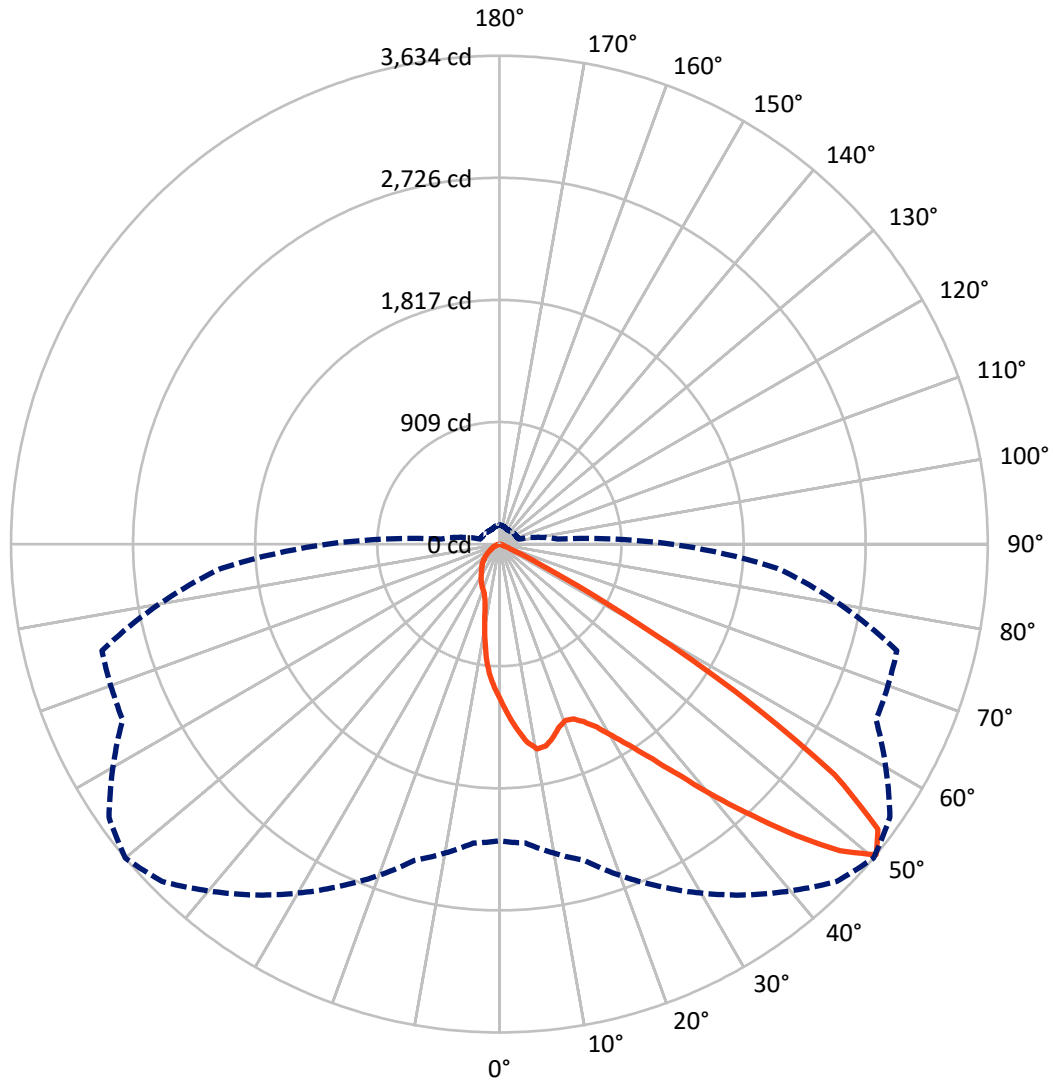
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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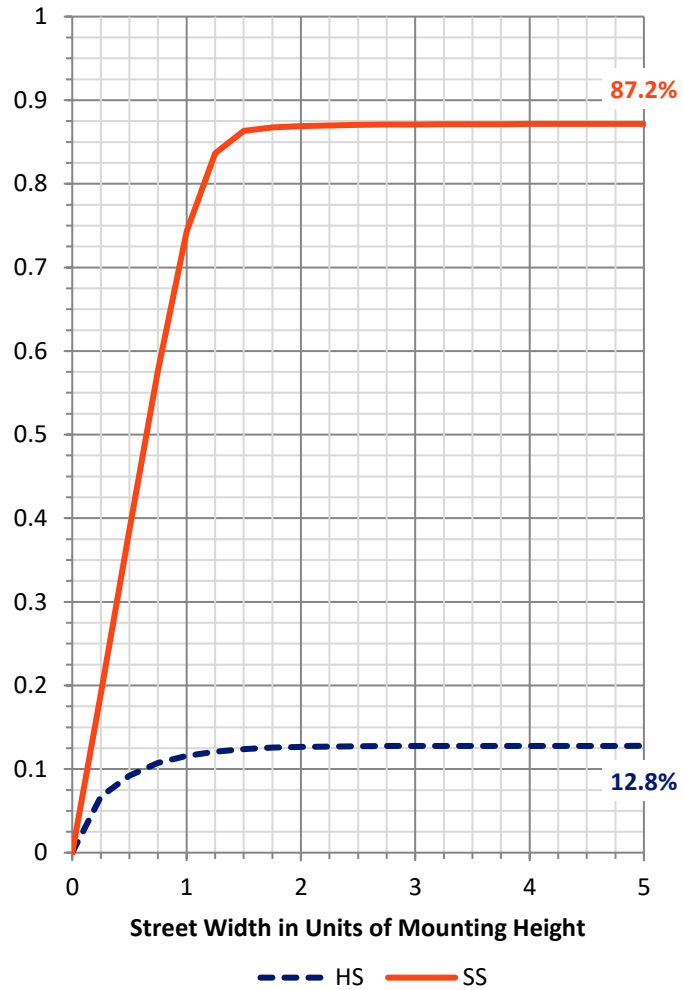
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	491.9	0.0	491.9
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	3336.6	0.0	3336.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3828.5	0.0	3828.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.6	2.8
10°-20°	277.6	7.3
20°-30°	458.2	12.0
30°-40°	756.1	19.7
40°-50°	1196.2	31.2
50°-60°	905.7	23.7
60°-70°	113.4	3.0
70°-80°	12.8	0.3
80°-90°	1.0	0.0
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°	3828.5	100.0
0°-180°	3828.5	100.0

**Coefficient of Utilization**



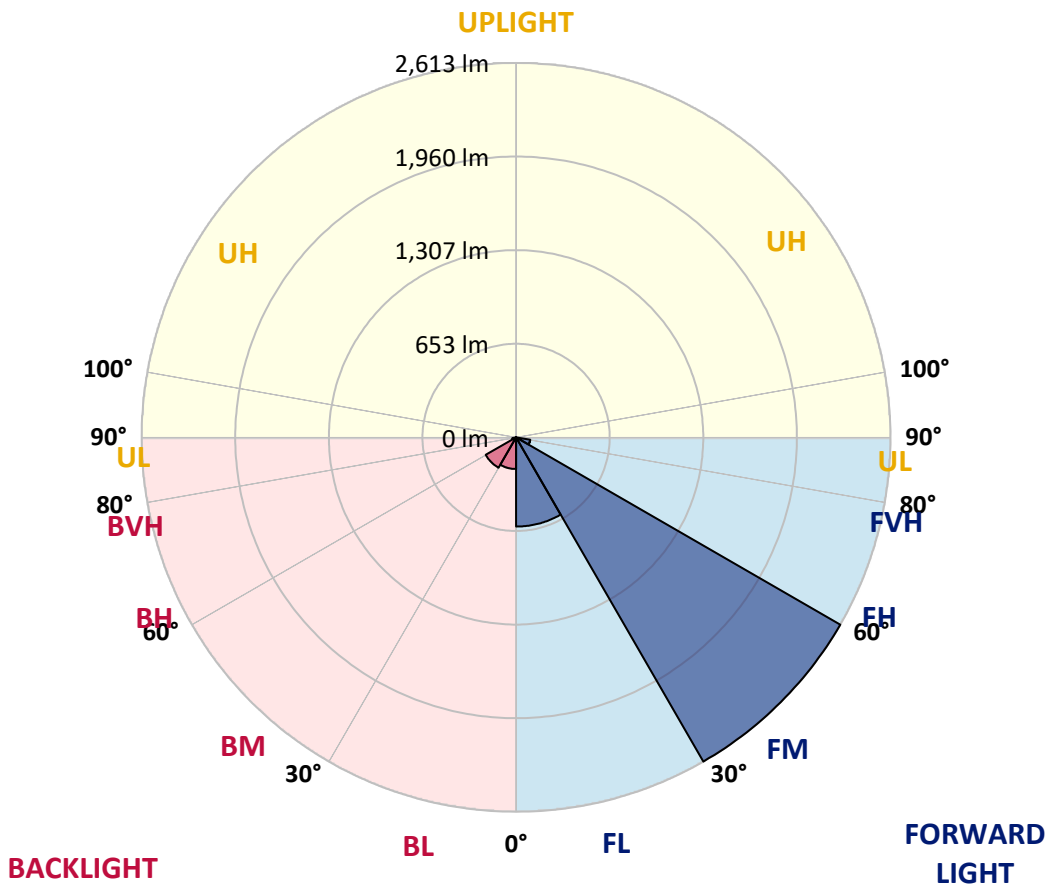
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.6	16.3			
FM (30°-60°)	2613.4	68.3			
FH (60°-80°)	100.2	2.6			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	220.8	5.8	B1/500		
BM (30°-60°)	244.6	6.4	B1/1000		
BH (60°-80°)	26.0	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9
2.5°	1321.7	1332.2	1329.3	1315.5	1300.5	1290.0	1273.6	1268.5	1231.3	1205.4	1178.1
5°	1481.3	1484.6	1480.9	1464.2	1437.9	1412.8	1385.8	1370.1	1307.8	1251.7	1194.5
7.5°	1519.5	1515.5	1522.5	1530.8	1527.2	1516.3	1487.8	1470.7	1396.4	1304.9	1218.2
10°	1400.0	1390.9	1416.8	1460.1	1505.7	1557.1	1549.8	1551.2	1482.7	1372.0	1249.2
12.5°	1241.5	1237.9	1257.2	1307.5	1396.7	1513.4	1541.4	1588.4	1561.8	1444.5	1284.5
15°	1171.9	1173.7	1185.4	1217.1	1281.2	1426.3	1493.7	1578.6	1632.5	1514.8	1323.5
17.5°	1182.5	1189.0	1188.7	1199.2	1238.2	1354.5	1433.2	1547.6	1687.2	1595.7	1368.3
20°	1254.3	1260.8	1251.0	1243.0	1256.1	1336.3	1401.5	1516.3	1724.0	1677.3	1415.7
22.5°	1361.8	1369.4	1346.1	1323.1	1314.8	1366.1	1413.5	1503.5	1752.0	1752.0	1458.0
25°	1491.9	1502.4	1466.3	1425.5	1402.2	1429.2	1464.9	1532.3	1780.8	1819.1	1486.7
27.5°	1637.2	1637.6	1606.6	1560.7	1517.0	1520.3	1541.8	1597.2	1812.5	1891.2	1509.3
30°	1800.9	1802.0	1760.8	1705.8	1650.7	1635.8	1654.0	1695.9	1878.5	1982.0	1540.7
32.5°	2012.2	2017.3	1958.3	1877.4	1806.0	1777.9	1788.5	1832.6	1983.4	2095.7	1587.7
35°	2297.9	2303.4	2216.3	2109.5	1995.8	1953.5	1964.1	2008.6	2135.4	2257.1	1662.8
37.5°	2579.9	2587.2	2499.1	2399.6	2243.6	2173.6	2184.6	2226.8	2363.5	2480.1	1783.0
40°	2774.9	2784.7	2757.4	2690.4	2545.7	2453.9	2467.0	2482.3	2614.6	2746.8	1939.0
42.5°	2877.7	2891.5	2903.2	2937.4	2861.3	2784.4	2762.1	2763.2	2870.0	3018.7	2101.1
45°	2883.9	2897.3	2957.1	3089.4	3147.3	3131.3	3090.8	3063.5	3065.0	3199.8	2202.4
47.5°	2683.4	2708.6	2820.5	3079.5	3297.5	3430.5	3410.0	3345.2	3147.0	3211.8	2191.5
50°	2208.6	2233.4	2436.7	2809.5	3188.1	3550.0	3634.2	3547.1	3093.4	3062.0	2078.9
52.5°	1604.1	1606.6	1738.5	2174.0	2745.0	3329.5	3527.8	3519.4	3011.8	2880.6	1925.1
55°	762.0	752.8	901.2	1226.9	1898.5	2692.9	3027.1	3121.8	2895.9	2749.4	1806.0
57.5°	221.9	226.3	292.2	478.8	949.6	1721.1	2073.1	2249.4	2377.0	2260.4	1400.8
60°	99.5	99.8	111.1	145.8	316.3	800.6	1071.7	1290.0	1421.2	1316.9	694.9
62.5°	72.2	72.5	76.9	82.4	107.5	271.1	401.9	535.7	545.5	357.1	176.0
65°	60.1	60.1	60.9	60.9	64.5	96.9	122.1	157.4	132.6	98.4	68.9
67.5°	48.5	48.8	49.6	49.6	48.5	48.5	52.5	57.6	61.6	76.2	63.4
70°	37.9	37.5	37.5	37.9	36.8	31.3	33.9	38.6	42.3	59.4	55.0
72.5°	29.5	29.9	29.5	28.1	25.5	18.6	20.0	25.1	27.0	37.2	37.2
75°	22.2	22.6	21.1	16.0	10.6	5.8	7.7	12.4	15.7	18.2	13.5
77.5°	2.9	2.9	2.2	2.2	1.8	2.2	2.2	2.9	4.4	4.4	3.3
80°	0.4	0.4	0.4	0.7	1.1	1.5	1.5	1.5	1.5	1.8	1.8
82.5°	0.4	0.4	0.4	0.4	1.1	1.1	1.5	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.4	0.7	1.1	1.1	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.4	0.7	1.1	1.1	1.1	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9
2.5°	1161.7	1140.6	1115.1	1097.6	1072.8	1056.4	1033.1	1017.4	1003.9	993.4	999.2
5°	1162.1	1128.5	1076.4	1032.0	983.5	939.1	891.3	853.8	819.9	804.6	813.0
7.5°	1169.4	1121.3	1041.5	962.4	869.5	777.6	691.6	621.7	587.0	570.6	575.8
10°	1183.6	1118.0	1002.5	871.3	720.4	595.1	511.6	464.2	444.9	434.7	436.6
12.5°	1196.7	1115.8	951.8	751.4	568.5	461.7	418.3	411.8	415.8	416.1	415.8
15°	1214.5	1111.8	889.1	628.2	454.8	399.0	400.1	409.6	419.1	422.0	421.2
17.5°	1233.5	1105.6	808.2	510.2	385.9	380.8	393.6	406.3	415.8	417.2	417.6
20°	1253.2	1092.8	716.0	416.5	353.8	367.0	381.2	390.6	397.6	399.7	400.5
22.5°	1262.3	1065.9	609.6	349.5	332.3	349.8	360.4	372.8	375.0	367.0	368.4
25°	1257.5	1020.3	505.8	304.3	310.8	328.3	344.0	337.8	328.7	322.9	324.7
27.5°	1242.6	959.8	404.1	271.1	287.9	310.1	311.9	305.0	303.5	298.8	300.3
30°	1226.6	890.2	325.0	244.5	264.6	287.9	282.4	285.0	285.3	279.9	281.7
32.5°	1216.7	817.3	258.7	226.7	249.6	254.0	264.9	270.0	270.4	257.6	259.8
35°	1220.0	745.6	219.0	212.1	235.8	234.7	250.0	252.9	231.8	214.3	216.1
37.5°	1246.6	679.2	196.4	200.8	211.7	220.1	231.8	212.4	207.7	199.7	200.8
40°	1296.2	622.8	182.9	193.9	195.3	208.8	190.9	193.5	193.9	188.8	189.9
42.5°	1354.1	575.8	174.9	189.9	186.2	188.4	170.5	175.6	181.1	178.9	179.3
45°	1383.3	529.8	168.0	176.0	177.1	156.3	152.3	157.8	164.7	165.8	166.2
47.5°	1357.4	486.1	160.7	156.0	163.3	142.5	137.7	139.6	147.6	152.0	152.7
50°	1278.3	435.8	149.8	138.1	134.1	127.9	123.5	123.9	133.0	140.7	142.1
52.5°	1167.2	383.3	131.9	117.0	107.9	112.6	113.7	111.5	119.9	127.5	129.0
55°	1059.3	317.8	104.6	95.1	86.7	96.9	99.8	96.9	99.5	104.6	104.9
57.5°	745.9	179.6	80.2	78.7	71.8	83.1	87.8	83.4	79.1	82.4	83.1
60°	345.8	94.0	61.6	61.6	59.8	71.4	79.4	73.2	64.9	66.3	67.4
62.5°	108.2	59.4	45.2	42.6	48.8	60.9	67.4	61.2	51.4	51.4	52.8
65°	61.2	51.0	35.7	32.8	39.7	48.8	52.8	46.3	37.5	36.8	36.8
67.5°	56.8	48.5	31.7	26.6	28.1	31.3	32.8	28.4	25.9	25.5	25.9
70°	47.0	40.4	25.5	18.2	17.1	16.8	17.5	16.4	15.7	16.0	17.1
72.5°	29.2	24.4	16.0	10.9	9.5	9.1	9.1	9.1	8.7	8.7	8.7
75°	10.6	9.1	7.3	5.5	4.7	4.4	4.4	4.7	4.4	4.0	3.6
77.5°	3.3	2.9	2.9	2.9	2.6	2.2	1.8	1.8	1.5	1.1	1.1
80°	1.8	1.8	1.8	1.8	1.5	1.5	1.1	0.7	0.4	0.4	0.0
82.5°	1.8	1.8	1.8	1.5	1.5	1.5	1.1	0.7	0.4	0.0	0.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.1	0.7	0.4	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.1	0.7	0.4	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)