

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: P629777

Luminaire Tested: GWS-SA1C-735-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629777  
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-SA1C-735-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

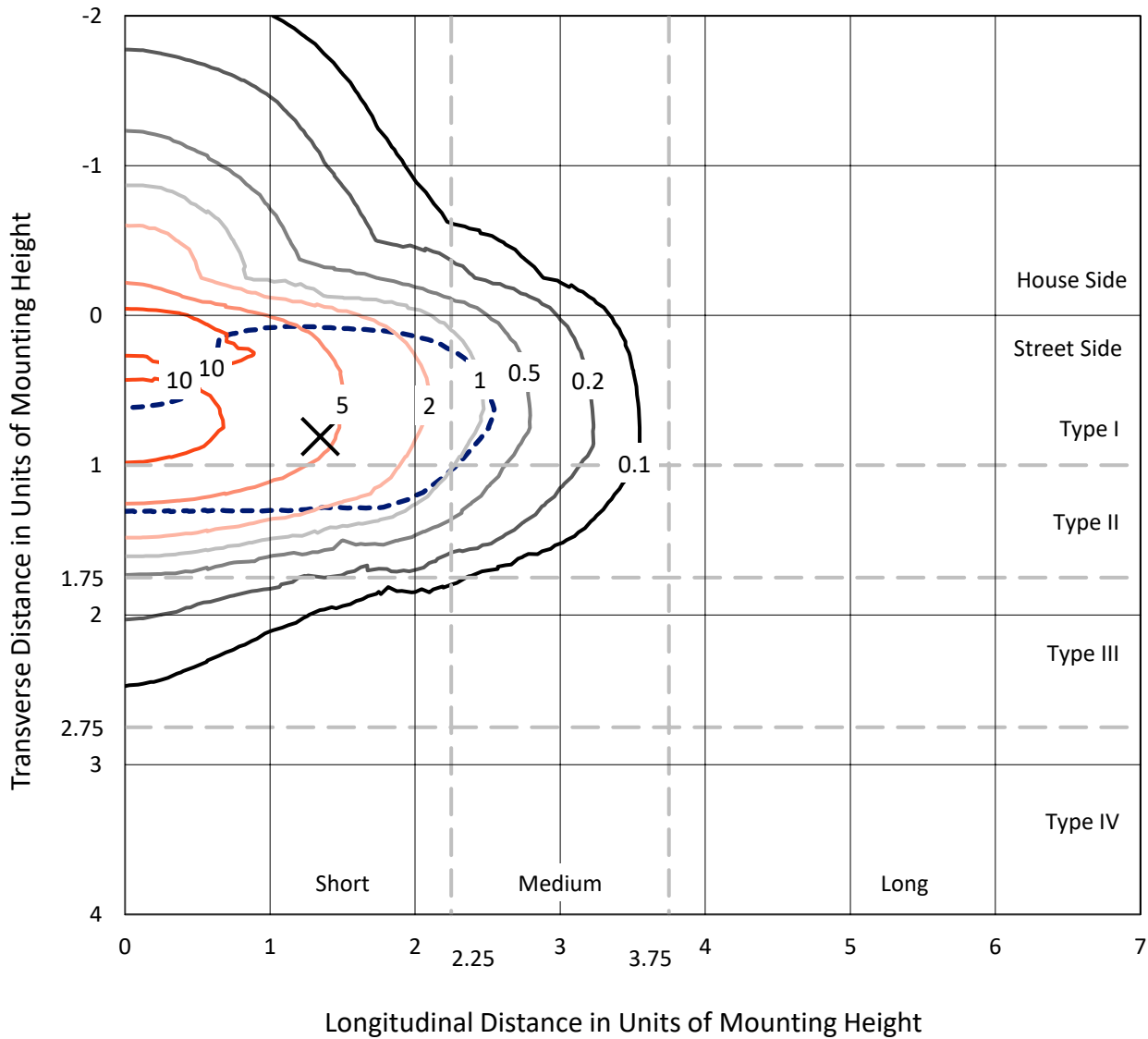
Lumens per Lamp: N/A  
Luminaire Lumens: 4827.5 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

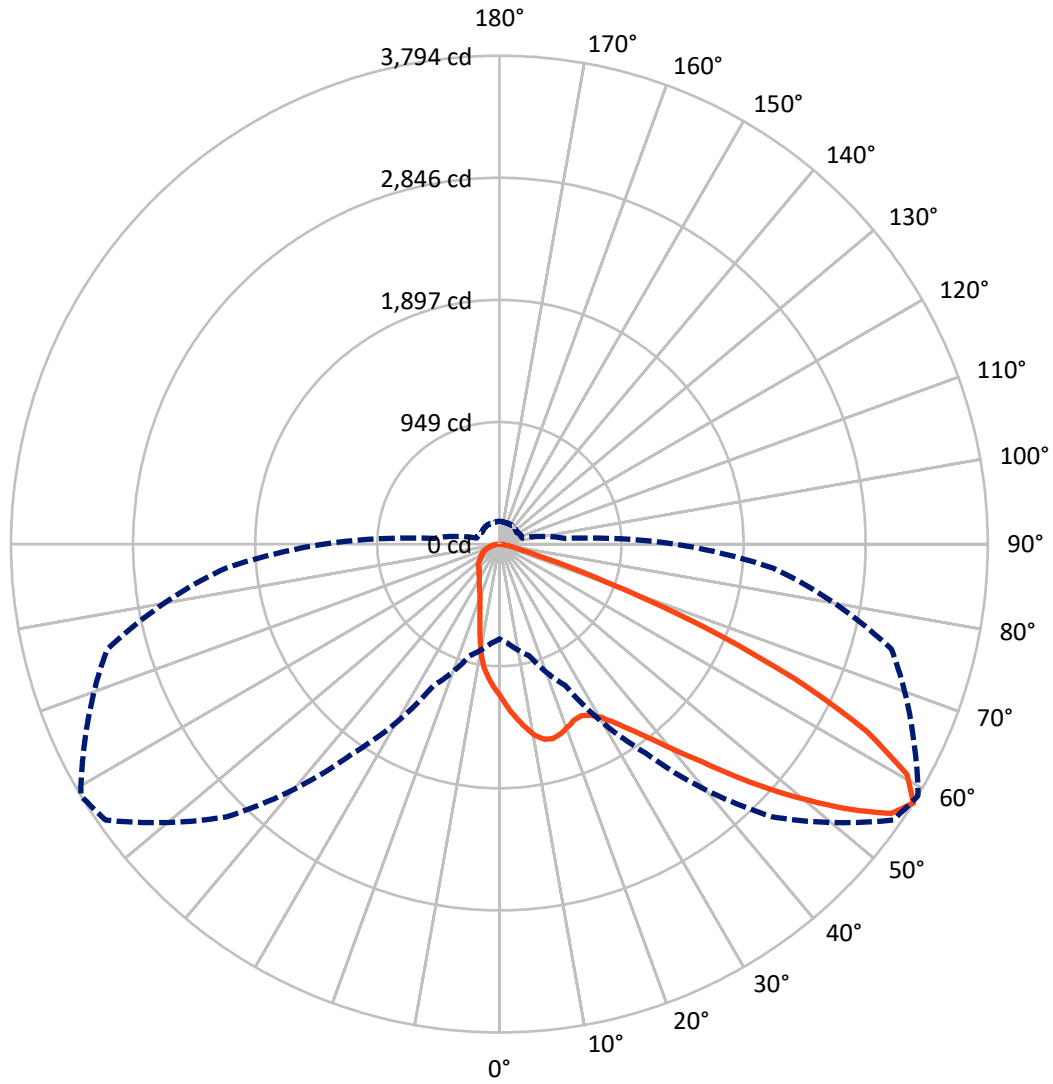
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc  
 Type II - Short - N/A

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CATALOG NUMBER: GWS-SA1C-735-U-AFL-W

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA1C-735-U-AFL-W

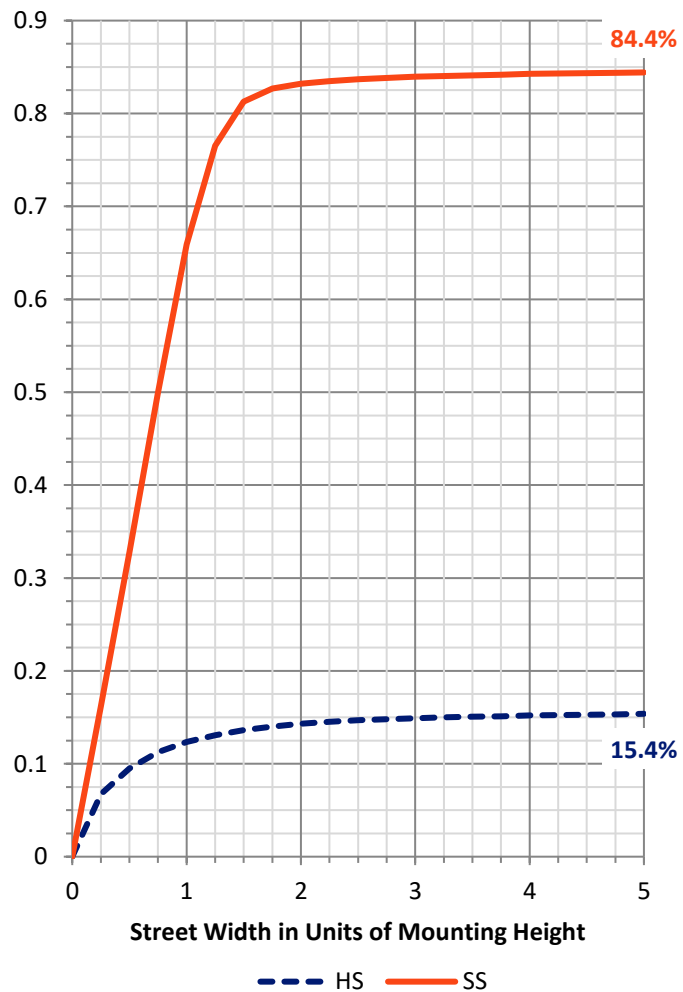
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	749.2	0.0	749.2
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	4078.3	0.0	4078.3
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	4827.5	0.0	4827.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.0	2.3
10°-20°	278.8	5.8
20°-30°	452.0	9.4
30°-40°	727.1	15.1
40°-50°	1129.1	23.4
50°-60°	1216.2	25.2
60°-70°	705.8	14.6
70°-80°	184.3	3.8
80°-90°	24.3	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°	4827.5	100.0
0°-180°	4827.5	100.0

**Coefficient of Utilization**



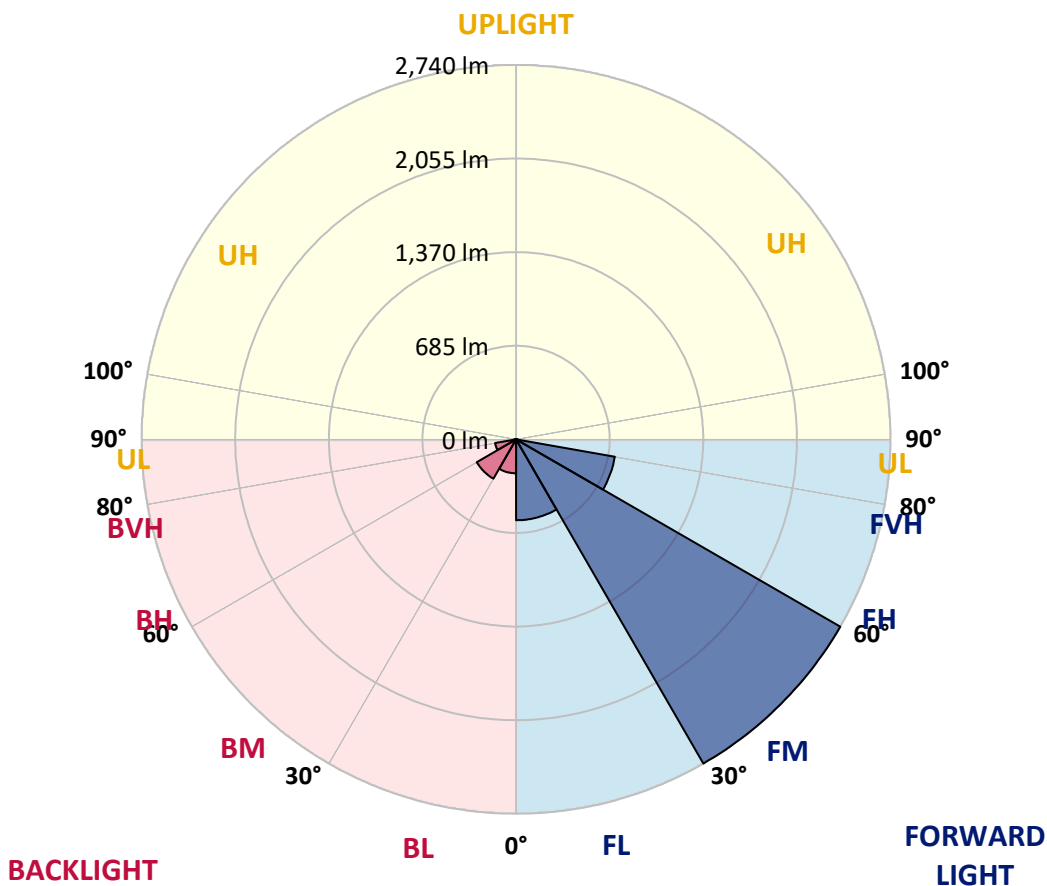
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CATALOG NUMBER: GWS-SA1C-735-U-AFL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.3	12.3			
FM (30°-60°)	2740.1	56.8			
FH (60°-80°)	734.2	15.2			G1/1800
FVH (80°-90°)	11.6	0.2			G1/100
BL (0°-30°)	248.6	5.1	B1/500		
BM (30°-60°)	332.2	6.9	B1/1000		
BH (60°-80°)	155.8	3.2	B1/500		G1/500
BVH (80°-90°)	12.6	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1
2.5°	1344.1	1332.9	1340.7	1326.8	1321.0	1305.7	1286.0	1272.7	1252.3	1225.8	1202.7
5°	1477.7	1469.8	1471.5	1456.6	1443.3	1417.9	1377.4	1355.0	1320.3	1267.0	1217.3
7.5°	1473.6	1482.8	1487.9	1500.8	1504.5	1502.1	1465.8	1434.5	1396.4	1316.2	1241.5
10°	1321.0	1338.3	1354.0	1398.1	1451.8	1519.8	1528.3	1509.6	1471.2	1379.1	1270.4
12.5°	1154.8	1168.1	1182.0	1235.0	1317.3	1453.2	1545.3	1556.8	1541.6	1441.3	1303.0
15°	1073.2	1079.4	1092.6	1127.6	1193.2	1344.1	1515.7	1566.4	1593.9	1507.2	1339.7
17.5°	1069.8	1072.6	1079.0	1097.7	1143.3	1259.8	1462.4	1547.3	1635.0	1576.9	1382.5
20°	1140.2	1133.1	1129.0	1128.6	1151.1	1231.6	1410.7	1516.7	1654.4	1648.3	1428.4
22.5°	1237.7	1240.1	1231.3	1209.5	1206.8	1251.7	1384.9	1485.8	1660.2	1711.5	1470.9
25°	1376.1	1387.9	1361.8	1320.3	1299.9	1309.8	1400.9	1476.3	1659.5	1764.2	1497.4
27.5°	1537.5	1546.7	1520.1	1465.8	1423.6	1399.8	1448.4	1504.5	1665.3	1809.7	1513.3
30°	1721.3	1724.4	1688.0	1630.9	1569.4	1518.4	1527.6	1562.6	1694.8	1869.5	1532.0
32.5°	1946.0	1958.9	1903.8	1813.4	1727.5	1662.2	1634.0	1656.4	1758.7	1940.2	1560.9
35°	2231.1	2235.5	2165.5	2036.0	1914.4	1824.0	1764.8	1776.7	1855.9	2039.1	1604.4
37.5°	2499.9	2504.3	2429.9	2309.6	2135.6	2011.9	1926.3	1920.8	1980.3	2178.8	1675.5
40°	2670.5	2683.1	2649.8	2574.4	2408.2	2241.3	2125.1	2106.4	2143.4	2349.7	1774.4
42.5°	2762.3	2767.7	2767.1	2776.9	2678.0	2512.2	2349.4	2312.0	2336.8	2534.3	1874.3
45°	2763.0	2776.6	2812.9	2907.8	2912.2	2808.9	2632.8	2574.4	2551.6	2720.2	1978.6
47.5°	2639.3	2653.9	2753.8	2940.4	3078.0	3101.5	2972.3	2855.1	2759.2	2880.2	2064.2
50°	2264.8	2301.5	2491.8	2821.8	3110.6	3336.0	3296.2	3137.1	2943.8	3003.9	2117.9
52.5°	1939.5	1938.2	2055.4	2486.7	2974.4	3439.3	3609.5	3427.4	3126.3	3082.4	2131.5
55°	1420.2	1428.0	1548.0	1901.8	2610.7	3339.4	3781.8	3694.5	3335.6	3124.2	2126.1
57.5°	736.5	775.2	898.2	1213.6	1983.7	2995.4	3736.0	3794.1	3548.4	3153.8	2133.2
60°	372.1	364.7	408.8	579.4	1149.4	2339.5	3453.2	3638.4	3586.8	3176.9	2137.7
62.5°	248.4	246.4	234.2	268.5	469.7	1385.6	2943.8	3203.4	3320.0	3122.5	2081.2
65°	215.1	211.0	188.6	187.3	228.0	574.7	2157.7	2518.3	2743.9	2880.9	1946.3
67.5°	193.7	187.6	164.8	153.6	163.8	252.5	1216.0	1689.1	2026.2	2436.4	1650.6
70°	173.0	169.9	147.2	130.8	129.8	154.0	447.9	871.7	1239.8	1662.2	1206.8
72.5°	155.0	149.5	130.2	114.5	106.7	109.1	194.4	335.8	641.6	1036.9	721.8
75°	134.2	130.2	113.2	97.5	88.0	79.9	118.6	155.3	292.6	492.8	340.9
77.5°	103.7	100.9	89.4	77.5	72.0	59.5	72.0	97.9	135.3	207.6	177.4
80°	60.2	61.9	66.6	60.5	53.0	42.5	46.9	56.4	81.2	112.5	100.6
82.5°	30.2	32.3	43.2	35.0	31.6	24.8	27.9	33.3	42.5	62.2	39.4
85°	2.4	2.4	7.8	8.8	10.9	8.8	11.2	13.6	19.4	24.8	13.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.7	3.1	5.8	3.7
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°	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1	1185.1
2.5°	1187.1	1169.8	1149.0	1132.0	1105.9	1091.9	1074.3	1052.5	1043.7	1039.6	1037.2
5°	1189.5	1158.9	1114.7	1073.9	1028.7	993.0	953.3	911.8	888.0	882.2	878.2
7.5°	1198.3	1155.5	1085.1	1017.8	933.9	856.1	780.3	705.2	666.8	652.2	650.8
10°	1210.5	1154.1	1055.2	943.4	801.7	678.7	590.0	531.2	506.4	498.2	495.5
12.5°	1225.8	1153.1	1015.8	840.1	649.1	532.9	482.2	472.7	476.1	475.4	475.4
15°	1245.2	1154.5	968.2	723.2	525.1	462.5	463.6	474.8	485.3	487.0	487.0
17.5°	1266.3	1153.1	899.2	606.0	450.6	445.9	461.5	477.1	486.7	488.0	488.0
20°	1289.0	1146.7	812.2	495.5	418.0	435.3	452.3	464.6	470.4	471.7	471.7
22.5°	1302.6	1128.3	717.8	419.4	397.3	418.7	429.9	442.5	443.2	432.3	431.9
25°	1300.6	1094.0	610.0	370.4	375.2	393.9	408.2	399.3	388.4	382.3	381.3
27.5°	1287.7	1042.3	500.3	333.4	349.0	370.1	365.7	358.2	355.5	348.7	348.0
30°	1271.4	978.8	401.7	304.5	321.8	341.2	334.4	333.7	331.0	323.5	323.5
32.5°	1255.7	913.2	327.3	283.1	304.5	305.9	315.4	316.1	314.7	301.8	300.4
35°	1251.3	847.6	277.0	266.1	287.5	286.8	300.4	300.1	276.6	258.6	258.3
37.5°	1264.6	781.0	247.1	252.2	264.1	272.9	283.8	264.1	256.2	245.4	244.7
40°	1292.8	719.5	231.8	244.0	249.1	262.0	245.0	246.4	244.4	236.2	235.2
42.5°	1330.2	667.1	223.3	241.3	240.6	244.0	225.3	230.8	233.8	227.7	226.7
45°	1366.2	621.6	218.9	231.1	234.5	214.8	211.0	216.1	220.9	218.5	217.5
47.5°	1392.7	582.2	216.5	217.2	226.7	204.9	198.8	201.2	207.0	208.0	207.6
50°	1400.9	548.5	213.8	205.6	203.6	195.1	190.3	189.6	196.4	201.2	201.9
52.5°	1385.2	518.6	206.6	195.4	185.6	186.9	185.2	181.8	188.6	195.1	195.8
55°	1362.1	501.6	195.4	185.6	174.0	179.4	180.1	177.1	181.5	185.9	185.9
57.5°	1363.8	511.5	184.5	176.4	163.8	170.9	174.7	173.3	173.3	176.7	177.1
60°	1375.0	525.7	177.4	164.8	153.6	161.1	169.6	168.2	165.2	169.6	169.6
62.5°	1342.7	506.7	172.6	153.6	142.7	151.6	161.8	161.1	157.7	164.8	165.5
65°	1247.6	455.7	167.2	139.7	131.9	142.1	150.9	153.3	150.2	159.7	161.4
67.5°	1045.7	383.4	156.7	126.4	121.0	130.5	139.0	142.4	140.0	151.2	152.6
70°	779.6	310.3	140.0	111.8	107.7	116.2	124.0	125.4	125.7	139.0	140.4
72.5°	497.2	241.3	117.9	95.5	92.4	98.9	104.7	110.1	112.5	125.1	124.7
75°	277.3	179.4	94.8	80.9	75.4	80.5	87.3	93.8	100.6	118.9	121.0
77.5°	159.7	126.1	75.1	64.9	58.5	63.9	69.7	78.8	99.2	115.2	113.2
80°	90.1	81.9	56.8	47.6	43.5	47.6	52.0	69.3	78.2	85.0	86.0
82.5°	42.1	45.9	38.7	29.2	29.2	31.9	36.0	53.7	59.1	48.3	42.1
85°	15.3	20.7	19.0	15.0	13.3	12.9	22.4	30.6	19.0	17.0	14.6
87.5°	4.1	5.8	5.4	3.7	2.0	1.7	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)