

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: P631050

Luminaire Tested: GWS-SA1E-830-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

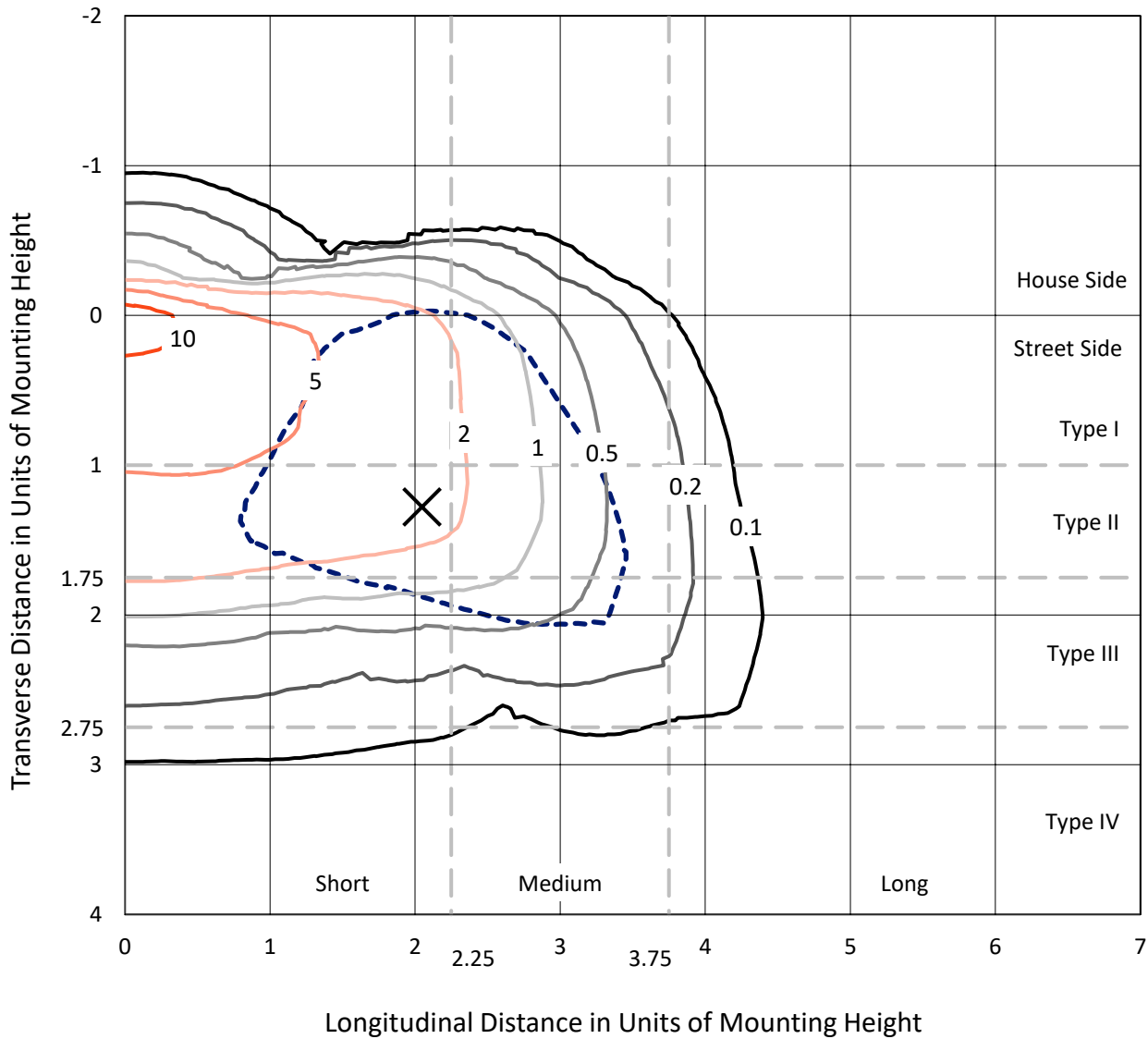
Lumens per Lamp: N/A  
Luminaire Lumens: 4875.4 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

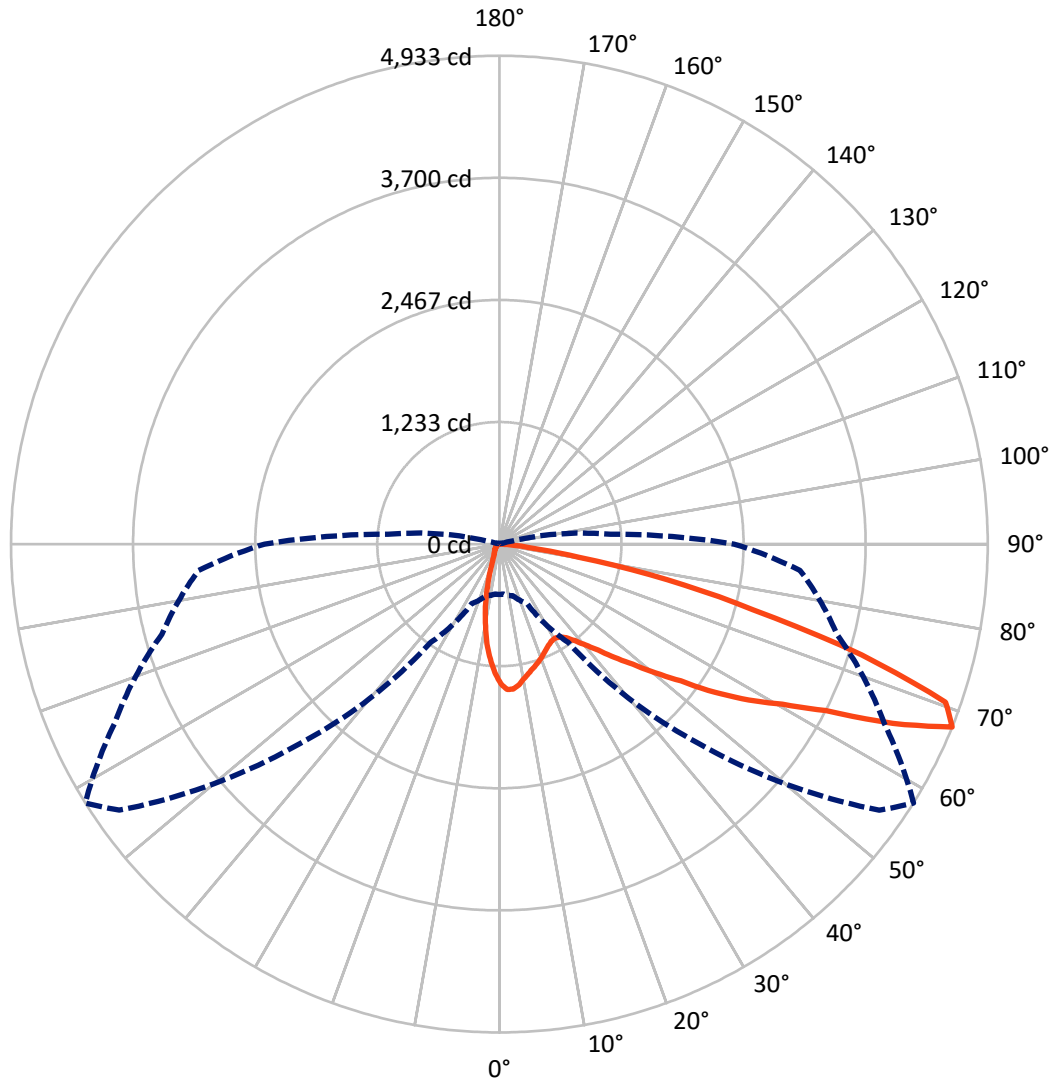
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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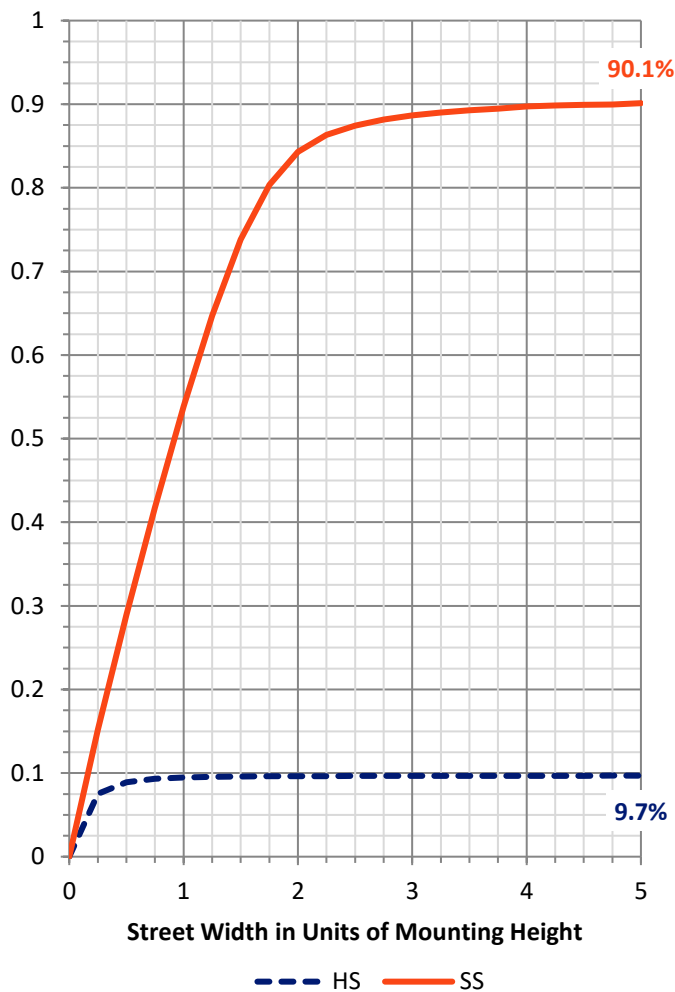
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	476.3	0.0	476.3
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	4399.1	0.0	4399.1
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	4875.4	0.0	4875.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	2.3
10°-20°	237.9	4.9
20°-30°	320.8	6.6
30°-40°	450.8	9.2
40°-50°	696.2	14.3
50°-60°	1113.3	22.8
60°-70°	1318.2	27.0
70°-80°	583.2	12.0
80°-90°	40.8	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°	4875.4	100.0
0°-180°	4875.4	100.0

**Coefficient of Utilization**



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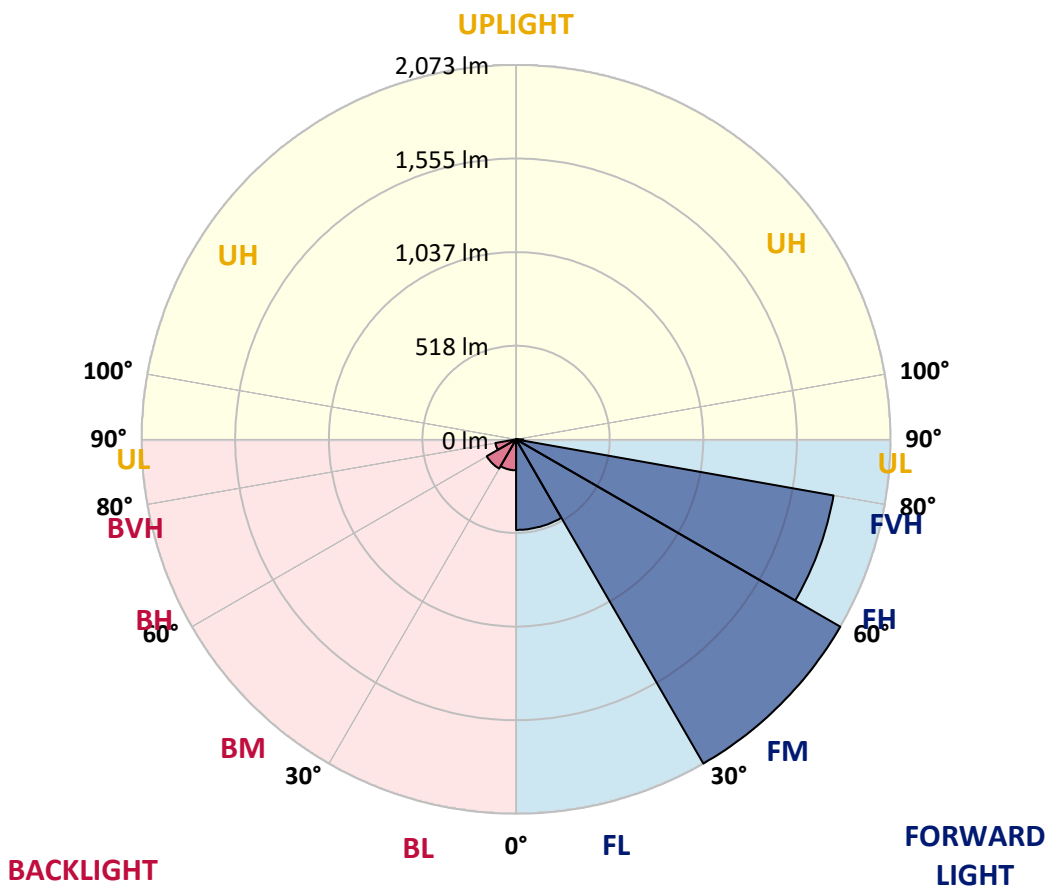
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.6	10.3			
FM (30°-60°)	2073.4	42.5			
FH (60°-80°)	1785.1	36.6			G1/1800
FVH (80°-90°)	39.0	0.8			G1/100
BL (0°-30°)	171.4	3.5	B1/500		
BM (30°-60°)	186.9	3.8	B0/220		
BH (60°-80°)	116.3	2.4	B1/500		G1/500
BVH (80°-90°)	1.7	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3
2.5°	1479.2	1481.8	1485.3	1489.6	1488.7	1484.8	1480.1	1469.3	1462.4	1440.8	1414.5
5°	1431.8	1431.3	1440.0	1448.2	1462.8	1470.6	1481.4	1471.5	1468.0	1442.1	1399.4
7.5°	1339.0	1343.7	1353.6	1366.6	1387.7	1410.6	1436.5	1433.5	1443.8	1426.6	1373.5
10°	1247.9	1245.3	1260.9	1280.3	1312.7	1342.0	1379.5	1379.1	1406.3	1404.6	1344.2
12.5°	1168.1	1167.7	1179.8	1201.8	1239.7	1280.7	1331.6	1332.9	1366.6	1380.4	1319.1
15°	1100.8	1101.6	1113.3	1136.2	1175.4	1225.5	1284.6	1295.4	1333.4	1361.4	1294.5
17.5°	1052.9	1053.3	1060.2	1080.1	1118.5	1172.0	1243.2	1257.9	1306.6	1347.2	1274.7
20°	1030.9	1029.2	1030.4	1040.4	1070.1	1118.9	1200.9	1219.9	1282.0	1337.3	1256.6
22.5°	1033.9	1031.3	1025.3	1024.0	1037.4	1074.5	1156.0	1179.3	1255.3	1331.2	1240.2
25°	1060.7	1055.0	1046.4	1033.5	1028.3	1046.8	1116.8	1140.9	1230.2	1331.6	1227.6
27.5°	1101.6	1095.6	1084.8	1067.6	1047.3	1039.5	1090.0	1112.9	1212.5	1341.6	1221.6
30°	1153.9	1149.1	1138.8	1118.0	1090.9	1058.9	1084.4	1103.4	1203.9	1361.8	1224.2
32.5°	1215.6	1212.1	1203.5	1184.5	1153.4	1104.7	1103.4	1118.0	1210.8	1391.2	1234.1
35°	1275.1	1276.4	1276.8	1266.5	1233.3	1174.1	1155.6	1160.8	1239.3	1435.2	1256.6
37.5°	1339.4	1336.4	1351.9	1359.3	1327.3	1264.3	1236.3	1236.7	1293.7	1500.4	1298.8
40°	1388.2	1389.0	1422.7	1452.9	1439.5	1378.7	1338.5	1338.1	1377.4	1589.7	1367.0
42.5°	1433.9	1439.5	1489.1	1540.9	1559.5	1505.5	1476.6	1465.8	1494.8	1710.5	1469.3
45°	1482.7	1490.9	1560.3	1634.1	1682.9	1651.0	1628.1	1632.4	1635.9	1851.2	1606.9
47.5°	1539.6	1544.8	1630.7	1734.7	1825.7	1817.5	1818.8	1813.6	1811.9	2028.5	1789.0
50°	1608.7	1620.8	1719.6	1843.8	1968.1	2022.5	2040.6	2042.8	2014.7	2221.8	1977.6
52.5°	1755.4	1770.1	1854.6	1963.4	2123.5	2237.8	2311.6	2296.9	2253.8	2409.1	2184.3
55°	1928.4	1939.6	2021.2	2133.8	2313.3	2473.9	2649.0	2643.0	2537.3	2606.3	2354.3
57.5°	1944.8	1957.3	2083.8	2256.4	2557.1	2765.6	2949.8	2969.2	2814.3	2746.1	2506.2
60°	1760.6	1786.0	1958.6	2190.8	2650.3	3157.8	3279.5	3283.4	3017.6	2888.1	2691.8
62.5°	1411.0	1423.1	1597.0	1899.9	2506.6	3386.5	3783.1	3701.1	3278.6	3107.7	2985.6
65°	739.6	788.8	940.3	1275.5	2032.8	3306.7	4388.9	4366.5	3748.1	3422.3	3214.3
67.5°	507.5	507.0	542.8	665.0	1212.1	2847.1	4686.2	4933.0	4290.9	3530.2	3048.6
70°	386.2	387.5	419.4	498.8	627.8	1895.2	4360.0	4782.0	4391.9	3205.3	2465.7
72.5°	256.3	258.9	312.0	403.0	501.4	929.0	3388.2	3826.2	3695.5	2574.4	1735.5
75°	153.2	155.3	193.3	293.0	445.8	520.0	2152.8	2645.2	2543.8	1774.4	930.3
77.5°	63.0	64.7	99.2	182.5	326.2	403.9	1190.5	1730.8	1523.7	705.5	254.2
80°	26.3	27.2	47.9	127.7	235.2	253.3	551.5	813.4	624.4	151.9	77.7
82.5°	9.5	9.9	17.7	70.3	146.3	190.7	278.3	321.5	176.1	49.6	41.9
85°	0.4	0.4	4.3	23.7	55.7	53.9	159.2	154.0	58.3	20.7	25.0
87.5°	0.0	0.0	0.4	0.4	0.9	2.2	15.1	26.8	12.5	5.2	10.8
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°	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3	1406.3
2.5°	1397.2	1374.4	1349.3	1326.0	1288.9	1266.9	1239.7	1227.6	1210.4	1206.1	1208.7
5°	1368.8	1329.5	1269.5	1215.1	1144.8	1088.3	1031.3	1007.1	976.1	955.4	946.7
7.5°	1328.6	1277.3	1183.6	1084.8	988.2	885.0	806.5	754.7	707.7	681.8	676.6
10°	1288.1	1221.2	1087.0	945.4	795.7	672.3	566.1	487.6	423.7	394.8	372.4
12.5°	1246.2	1162.9	988.6	803.9	630.0	461.7	330.5	254.2	208.4	190.3	193.3
15°	1207.8	1106.8	891.1	662.4	443.6	278.8	182.5	154.0	143.3	139.8	139.4
17.5°	1171.1	1053.7	794.0	524.7	292.6	170.9	139.8	132.9	129.9	128.2	128.2
20°	1137.9	1002.8	699.0	395.3	189.0	135.5	126.4	123.0	120.4	119.1	119.1
22.5°	1106.8	953.6	606.3	279.6	139.4	121.7	116.1	112.6	109.6	107.9	107.9
25°	1078.8	909.2	517.8	192.5	120.0	111.3	105.3	101.4	96.2	93.2	93.2
27.5°	1058.5	869.5	432.8	140.2	108.3	100.1	93.2	88.0	82.4	79.0	78.1
30°	1046.4	835.8	346.9	115.2	97.5	89.3	81.6	75.1	68.6	65.2	64.7
32.5°	1039.5	804.8	268.4	100.5	88.5	79.0	70.3	63.4	57.0	53.1	52.6
35°	1042.1	780.6	201.1	90.6	79.8	69.9	60.4	53.5	47.9	44.4	43.6
37.5°	1064.5	769.8	151.0	82.9	72.5	62.1	52.2	45.7	40.6	38.0	37.5
40°	1108.1	772.0	118.7	76.8	66.5	54.4	44.9	38.8	35.0	32.8	32.4
42.5°	1175.9	790.1	98.0	71.6	60.0	47.5	38.8	34.1	30.2	28.0	27.6
45°	1276.8	827.6	85.4	65.6	53.1	41.0	33.7	29.3	25.9	23.3	22.9
47.5°	1423.1	892.8	77.2	60.0	47.0	35.4	28.9	24.6	21.6	19.4	19.0
50°	1578.9	970.9	70.3	54.4	41.9	30.6	24.6	20.3	17.7	15.5	15.1
52.5°	1745.0	1055.0	65.2	49.2	37.1	26.3	20.7	16.8	14.2	12.1	11.7
55°	1904.7	1139.6	59.1	45.7	31.5	22.4	17.3	13.8	11.2	9.5	9.5
57.5°	2060.0	1217.3	52.6	40.1	25.9	19.0	14.2	11.2	9.1	7.8	7.3
60°	2245.6	1324.7	45.3	34.1	21.6	16.0	11.7	9.1	7.3	6.0	6.0
62.5°	2521.3	1436.5	38.8	28.5	18.1	13.4	9.5	7.3	6.0	5.2	4.7
65°	2611.5	1376.1	32.8	23.3	14.7	10.8	7.8	6.5	5.2	4.7	4.3
67.5°	2370.7	1128.0	27.2	19.0	12.1	9.1	6.9	5.6	4.7	4.3	3.9
70°	1849.9	800.5	21.1	14.2	9.9	7.3	6.0	5.2	4.3	3.9	3.9
72.5°	1258.3	473.4	16.8	10.8	8.2	6.5	5.2	4.7	4.3	3.9	3.5
75°	619.6	168.3	12.9	8.2	6.5	5.6	4.7	4.3	3.9	3.5	3.5
77.5°	167.0	46.6	9.9	6.5	5.2	4.3	4.3	4.3	3.9	3.0	3.0
80°	56.5	19.4	7.3	4.7	4.3	3.5	3.0	3.9	3.5	3.0	2.6
82.5°	31.1	9.5	5.2	3.9	3.0	2.6	2.6	2.6	2.6	2.2	2.2
85°	19.8	5.2	3.5	3.0	3.0	2.2	1.7	1.7	1.3	1.3	1.3
87.5°	9.1	3.0	3.0	2.6	2.6	2.2	1.3	0.9	0.4	0.4	0.4
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)