

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: P631545

Luminaire Tested: GWS-SA1F-830-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631545  
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-SA1F-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**

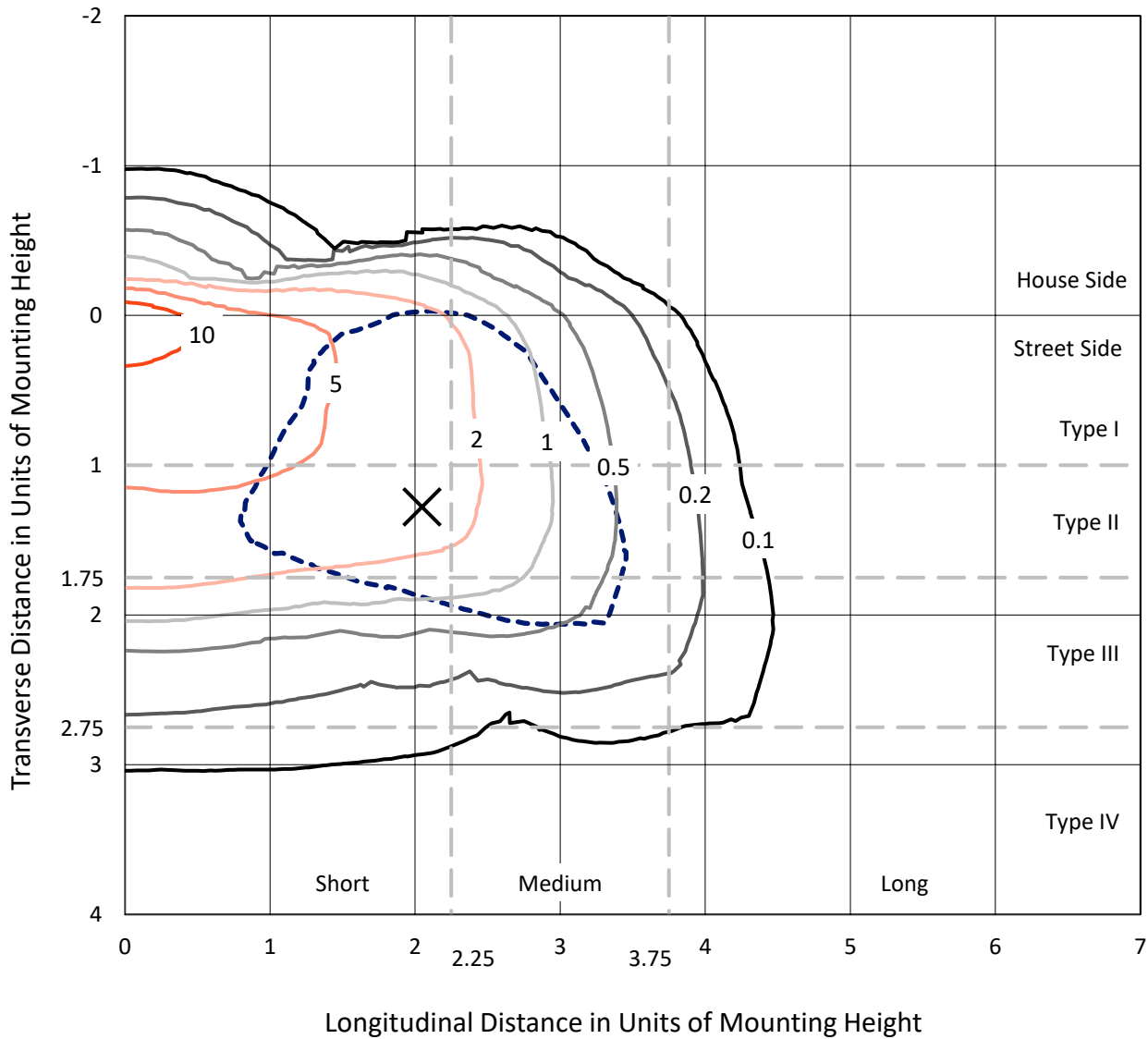
Lumens per Lamp: N/A  
Luminaire Lumens: 5420.5 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

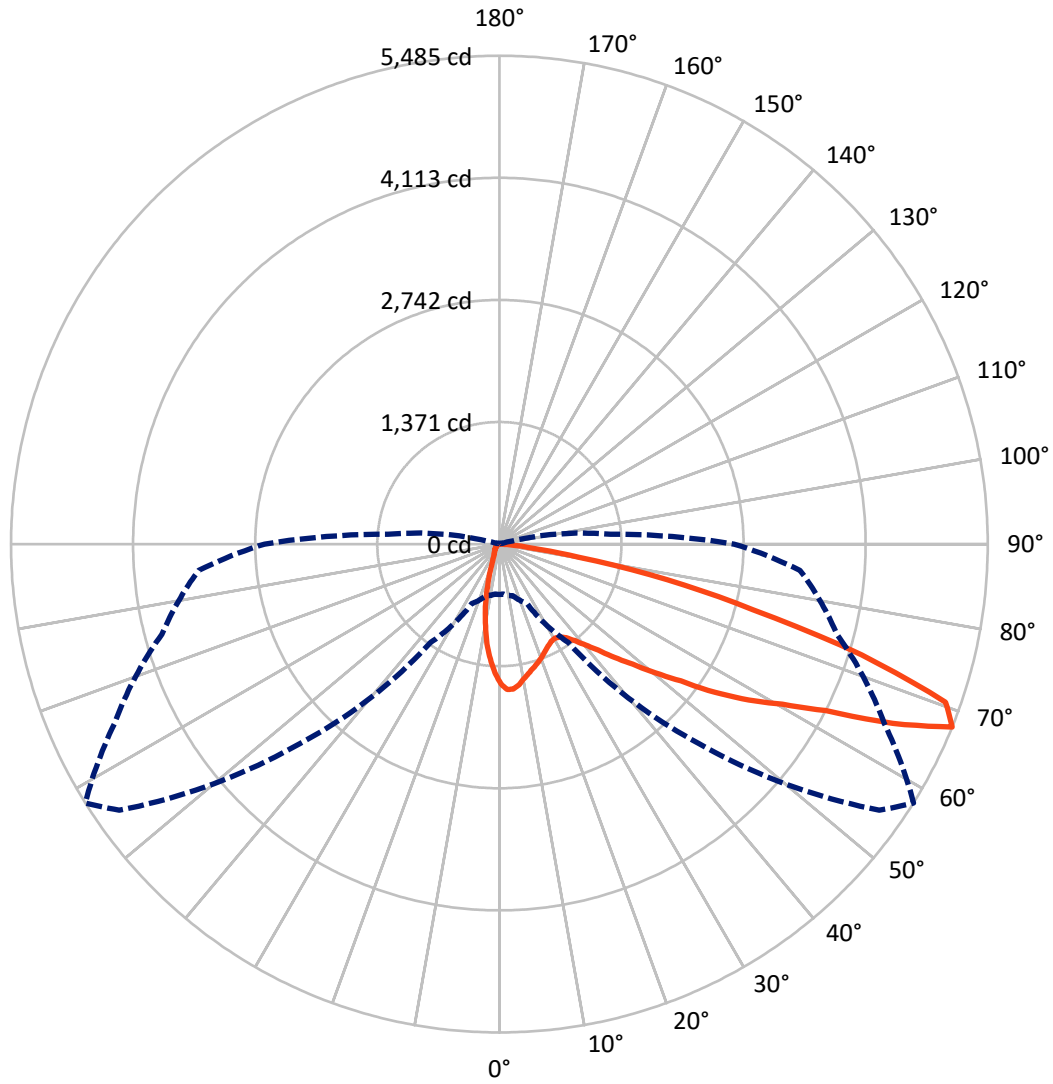
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 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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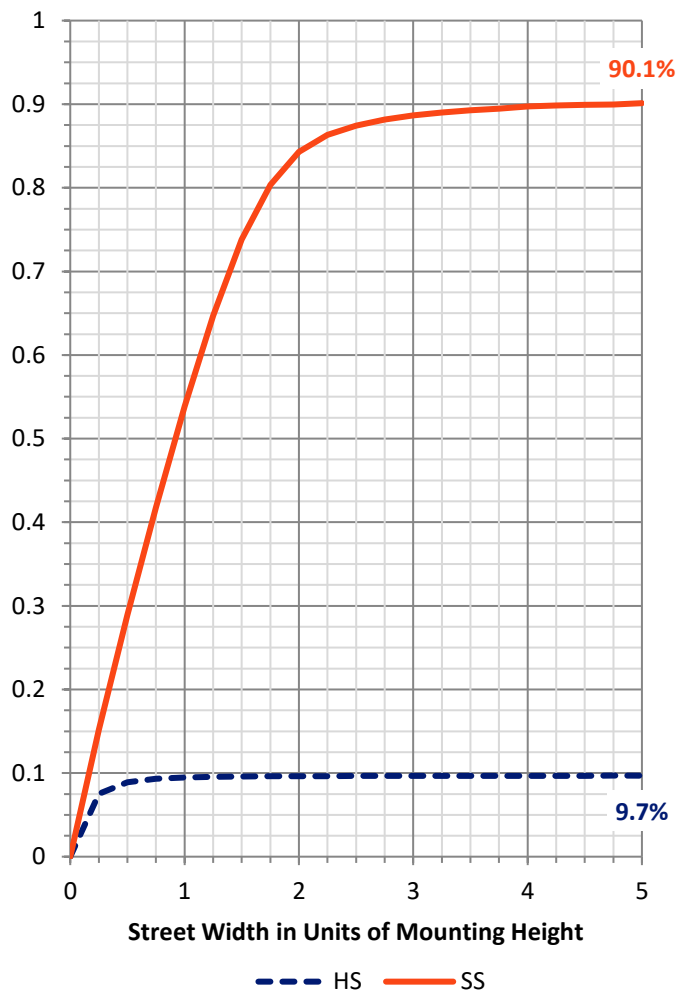
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	529.6	0.0	529.6
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	4891.0	0.0	4891.0
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	5420.5	0.0	5420.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.1	2.3
10°-20°	264.5	4.9
20°-30°	356.7	6.6
30°-40°	501.2	9.2
40°-50°	774.0	14.3
50°-60°	1237.8	22.8
60°-70°	1465.6	27.0
70°-80°	648.4	12.0
80°-90°	45.3	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°	5420.5	100.0
0°-180°	5420.5	100.0

**Coefficient of Utilization**

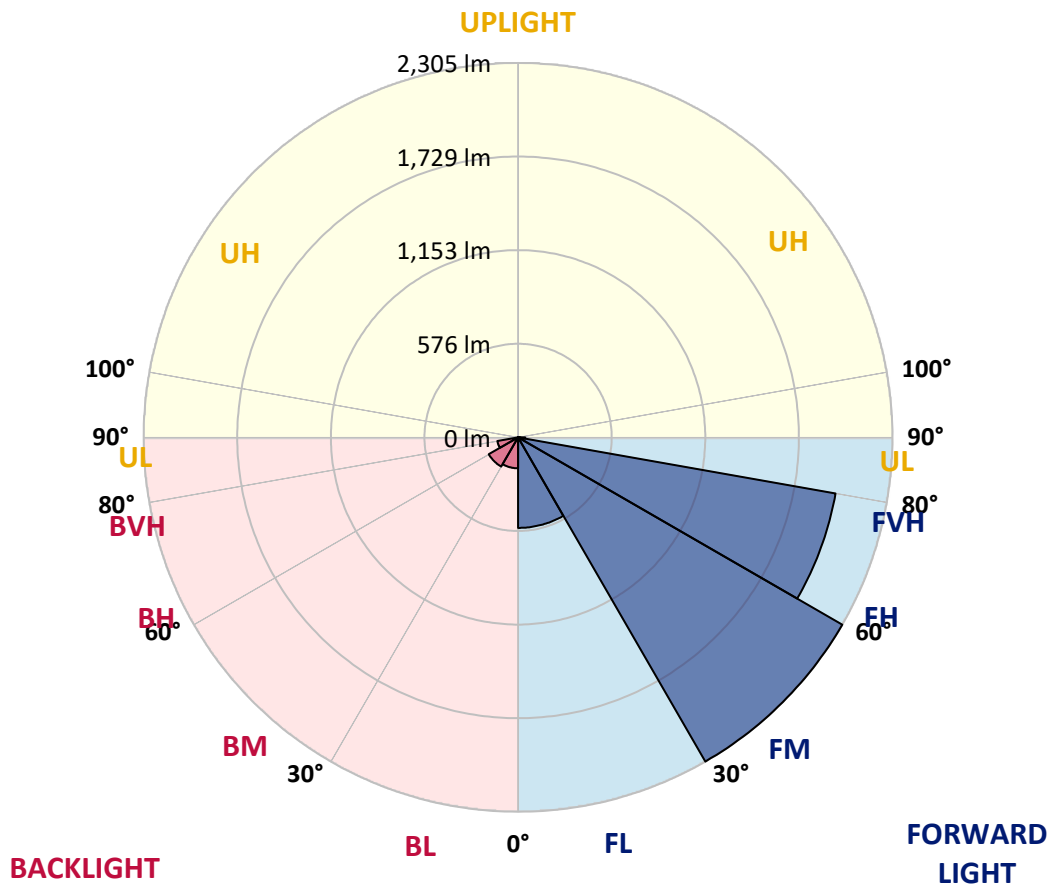


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.6	10.3			
FM (30°-60°)	2305.2	42.5			
FH (60°-80°)	1984.7	36.6			G2/5000
FVH (80°-90°)	43.4	0.8			G1/100
BL (0°-30°)	190.6	3.5	B1/500		
BM (30°-60°)	207.8	3.8	B0/220		
BH (60°-80°)	129.3	2.4	B1/500		G1/500
BVH (80°-90°)	1.9	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-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5
2.5°	1644.6	1647.5	1651.3	1656.1	1655.2	1650.8	1645.6	1633.6	1625.9	1601.9	1572.6
5°	1591.8	1591.4	1600.9	1610.1	1626.4	1635.0	1647.0	1636.0	1632.1	1603.3	1555.9
7.5°	1488.7	1494.0	1505.0	1519.4	1542.9	1568.3	1597.1	1593.8	1605.3	1586.1	1527.1
10°	1387.5	1384.6	1401.8	1423.4	1459.4	1492.0	1533.8	1533.3	1563.5	1561.6	1494.4
12.5°	1298.7	1298.2	1311.7	1336.1	1378.3	1423.9	1480.5	1482.0	1519.4	1534.7	1466.6
15°	1223.9	1224.8	1237.8	1263.2	1306.9	1362.5	1428.2	1440.2	1482.4	1513.6	1439.3
17.5°	1170.6	1171.1	1178.8	1200.8	1243.5	1303.0	1382.2	1398.5	1452.7	1497.8	1417.2
20°	1146.1	1144.2	1145.7	1156.7	1189.8	1244.0	1335.2	1356.3	1425.4	1486.8	1397.1
22.5°	1149.5	1146.6	1139.9	1138.5	1153.3	1194.6	1285.3	1311.2	1395.6	1480.0	1378.8
25°	1179.2	1173.0	1163.4	1149.0	1143.3	1163.9	1241.6	1268.5	1367.8	1480.5	1364.9
27.5°	1224.8	1218.1	1206.1	1186.9	1164.4	1155.7	1211.9	1237.3	1348.1	1491.6	1358.2
30°	1282.9	1277.6	1266.1	1243.0	1212.8	1177.3	1205.6	1226.7	1338.5	1514.1	1361.1
32.5°	1351.5	1347.6	1338.0	1316.9	1282.4	1228.2	1226.7	1243.0	1346.2	1546.7	1372.1
35°	1417.7	1419.1	1419.6	1408.1	1371.1	1305.4	1284.8	1290.5	1377.9	1595.7	1397.1
37.5°	1489.2	1485.8	1503.1	1511.2	1475.7	1405.7	1374.5	1375.0	1438.3	1668.1	1444.1
40°	1543.4	1544.3	1581.8	1615.3	1600.5	1532.8	1488.2	1487.7	1531.4	1767.4	1519.9
42.5°	1594.2	1600.5	1655.6	1713.2	1733.8	1673.9	1641.7	1629.7	1661.9	1901.8	1633.6
45°	1648.4	1657.6	1734.8	1816.8	1871.1	1835.5	1810.1	1814.9	1818.8	2058.2	1786.6
47.5°	1711.8	1717.5	1813.0	1928.6	2029.8	2020.7	2022.2	2016.4	2014.5	2255.3	1989.1
50°	1788.5	1802.0	1911.8	2050.0	2188.2	2248.6	2268.8	2271.2	2240.0	2470.3	2198.7
52.5°	1951.6	1968.0	2062.0	2182.9	2360.9	2488.0	2570.1	2553.7	2505.8	2678.5	2428.5
55°	2144.0	2156.5	2247.2	2372.4	2572.0	2750.4	2945.2	2938.5	2821.0	2897.7	2617.6
57.5°	2162.3	2176.2	2316.7	2508.6	2843.0	3074.8	3279.6	3301.2	3129.0	3053.2	2786.4
60°	1957.4	1985.7	2177.6	2435.7	2946.7	3510.9	3646.1	3650.5	3354.9	3211.0	2992.7
62.5°	1568.8	1582.2	1775.6	2112.4	2786.9	3765.1	4206.0	4114.9	3645.2	3455.2	3319.4
65°	822.3	877.0	1045.4	1418.2	2260.1	3676.4	4879.6	4854.7	4167.2	3804.9	3573.7
67.5°	564.2	563.7	603.5	739.3	1347.6	3165.4	5210.2	5484.6	4770.7	3924.9	3389.5
70°	429.4	430.8	466.3	554.6	698.0	2107.1	4847.5	5316.7	4883.0	3563.6	2741.3
72.5°	285.0	287.9	346.9	448.1	557.5	1032.9	3767.0	4254.0	4108.6	2862.2	1929.6
75°	170.3	172.7	214.9	325.8	495.6	578.1	2393.5	2940.9	2828.2	1972.8	1034.4
77.5°	70.0	72.0	110.3	202.9	362.7	449.1	1323.6	1924.3	1694.0	784.4	282.6
80°	29.3	30.2	53.3	142.0	261.5	281.6	613.1	904.3	694.2	168.9	86.4
82.5°	10.6	11.0	19.7	78.2	162.6	212.1	309.4	357.4	195.7	55.2	46.5
85°	0.5	0.5	4.8	26.4	61.9	60.0	177.0	171.3	64.8	23.0	27.8
87.5°	0.0	0.0	0.5	0.5	1.0	2.4	16.8	29.7	13.9	5.8	12.0
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°	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5
2.5°	1553.5	1528.0	1500.2	1474.3	1433.0	1408.6	1378.3	1364.9	1345.7	1340.9	1343.8
5°	1521.8	1478.1	1411.4	1351.0	1272.8	1209.9	1146.6	1119.8	1085.2	1062.2	1052.6
7.5°	1477.2	1420.1	1316.0	1206.1	1098.6	984.0	896.7	839.1	786.8	758.0	752.3
10°	1432.1	1357.7	1208.5	1051.1	884.7	747.5	629.4	542.1	471.1	439.0	414.0
12.5°	1385.5	1292.9	1099.1	893.8	700.4	513.3	367.5	282.6	231.7	211.6	214.9
15°	1342.8	1230.6	990.7	736.4	493.2	309.9	202.9	171.3	159.3	155.4	155.0
17.5°	1302.1	1171.6	882.8	583.4	325.3	190.0	155.4	147.8	144.4	142.5	142.5
20°	1265.1	1115.0	777.2	439.5	210.1	150.6	140.6	136.7	133.9	132.4	132.4
22.5°	1230.6	1060.3	674.1	310.9	155.0	135.3	129.1	125.2	121.9	119.9	119.9
25°	1199.4	1010.8	575.7	214.0	133.4	123.8	117.1	112.7	107.0	103.6	103.6
27.5°	1176.8	966.7	481.2	155.9	120.4	111.3	103.6	97.9	91.6	87.8	86.8
30°	1163.4	929.3	385.7	128.1	108.4	99.3	90.7	83.5	76.3	72.4	72.0
32.5°	1155.7	894.7	298.4	111.8	98.4	87.8	78.2	70.5	63.3	59.0	58.5
35°	1158.6	867.9	223.6	100.7	88.8	77.7	67.2	59.5	53.3	49.4	48.5
37.5°	1183.6	855.9	167.9	92.1	80.6	69.1	58.1	50.9	45.1	42.2	41.7
40°	1232.0	858.3	131.9	85.4	73.9	60.4	49.9	43.2	38.9	36.5	36.0
42.5°	1307.3	878.4	108.9	79.6	66.7	52.8	43.2	37.9	33.6	31.2	30.7
45°	1419.6	920.2	95.0	72.9	59.0	45.6	37.4	32.6	28.8	25.9	25.4
47.5°	1582.2	992.6	85.9	66.7	52.3	39.3	32.1	27.3	24.0	21.6	21.1
50°	1755.4	1079.5	78.2	60.4	46.5	34.1	27.3	22.5	19.7	17.3	16.8
52.5°	1940.1	1173.0	72.4	54.7	41.3	29.3	23.0	18.7	15.8	13.4	13.0
55°	2117.6	1267.0	65.7	50.9	35.0	24.9	19.2	15.4	12.5	10.6	10.6
57.5°	2290.4	1353.4	58.5	44.6	28.8	21.1	15.8	12.5	10.1	8.6	8.2
60°	2496.7	1472.9	50.4	37.9	24.0	17.8	13.0	10.1	8.2	6.7	6.7
62.5°	2803.2	1597.1	43.2	31.7	20.1	14.9	10.6	8.2	6.7	5.8	5.3
65°	2903.5	1529.9	36.5	25.9	16.3	12.0	8.6	7.2	5.8	5.3	4.8
67.5°	2635.8	1254.1	30.2	21.1	13.4	10.1	7.7	6.2	5.3	4.8	4.3
70°	2056.7	889.9	23.5	15.8	11.0	8.2	6.7	5.8	4.8	4.3	4.3
72.5°	1399.0	526.3	18.7	12.0	9.1	7.2	5.8	5.3	4.8	4.3	3.8
75°	688.9	187.1	14.4	9.1	7.2	6.2	5.3	4.8	4.3	3.8	3.8
77.5°	185.7	51.8	11.0	7.2	5.8	4.8	4.8	4.8	4.3	3.4	3.4
80°	62.8	21.6	8.2	5.3	4.8	3.8	3.4	4.3	3.8	3.4	2.9
82.5°	34.5	10.6	5.8	4.3	3.4	2.9	2.9	2.9	2.9	2.4	2.4
85°	22.1	5.8	3.8	3.4	3.4	2.4	1.9	1.9	1.4	1.4	1.4
87.5°	10.1	3.4	3.4	2.9	2.9	2.4	1.4	1.0	0.5	0.5	0.5
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)