

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: P632547

Luminaire Tested: GWS-SA2C-830-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-830-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7338.8 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

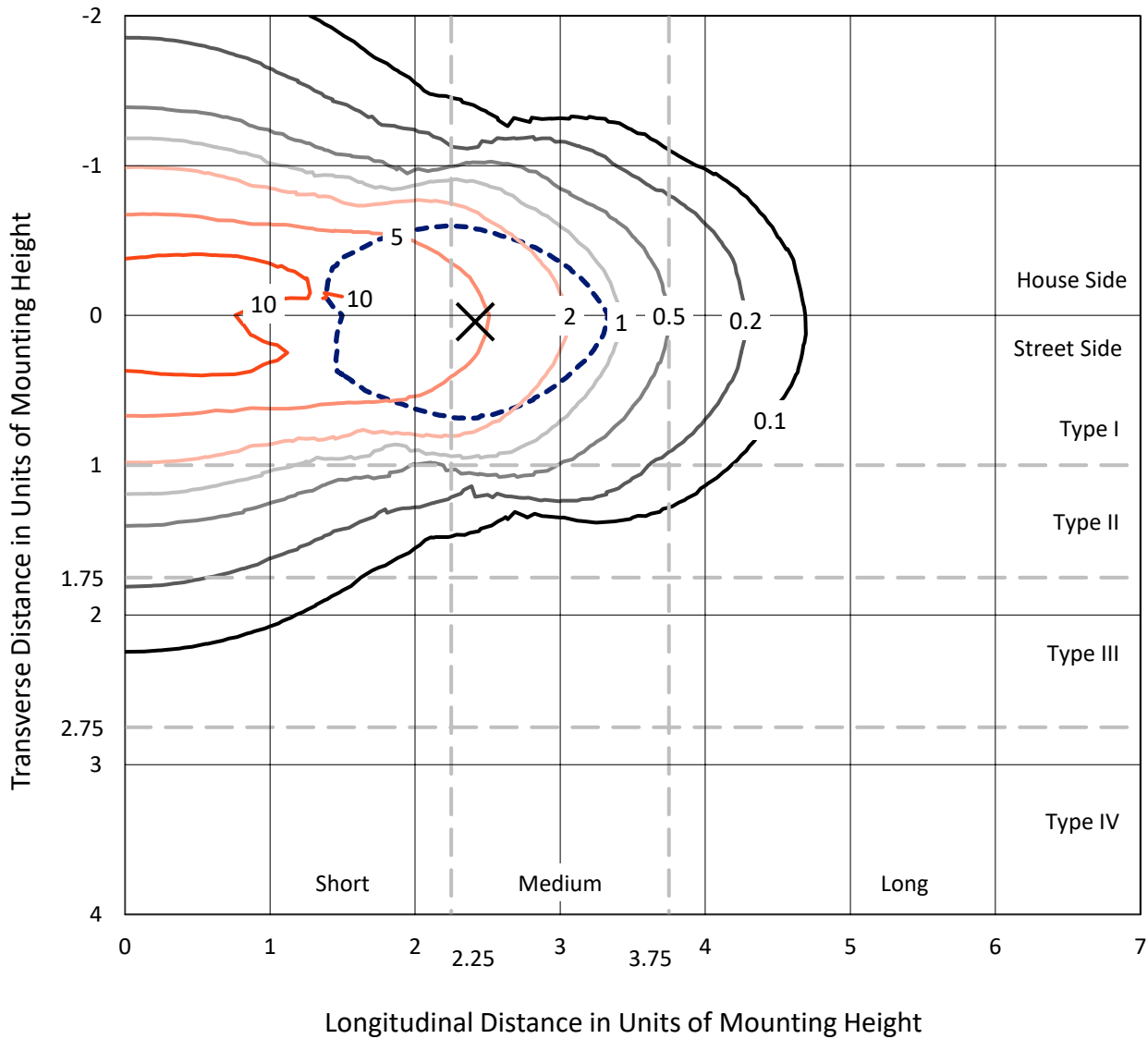
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

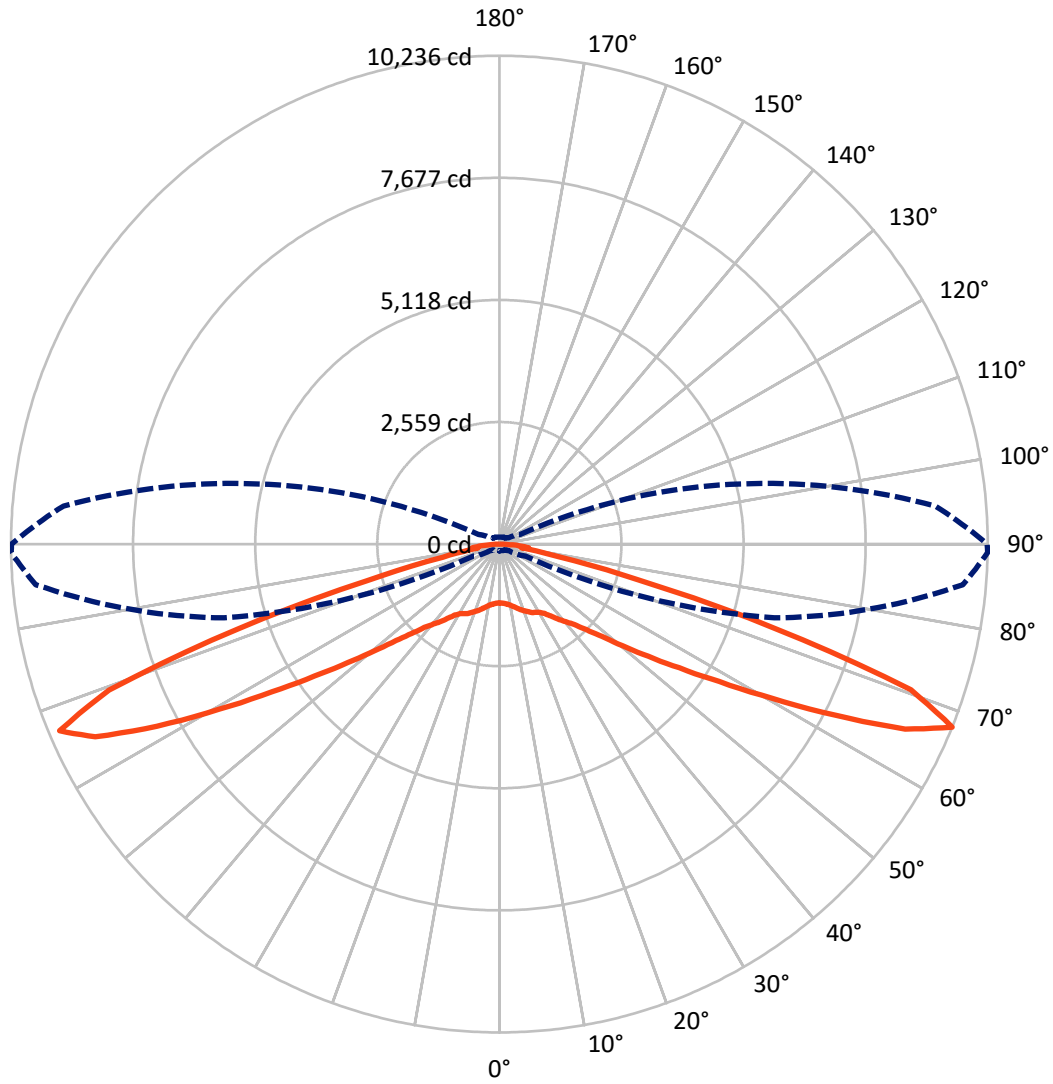
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3637.2	0.0	3637.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	3701.6	0.0	3701.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	7338.8	0.0	7338.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	1.7
10°-20°	402.3	5.5
20°-30°	680.1	9.3
30°-40°	933.3	12.7
40°-50°	1190.2	16.2
50°-60°	1493.3	20.3
60°-70°	1801.1	24.5
70°-80°	651.6	8.9
80°-90°	63.4	0.9
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°	7338.8	100.0
0°-180°	7338.8	100.0

Coefficient of Utilization



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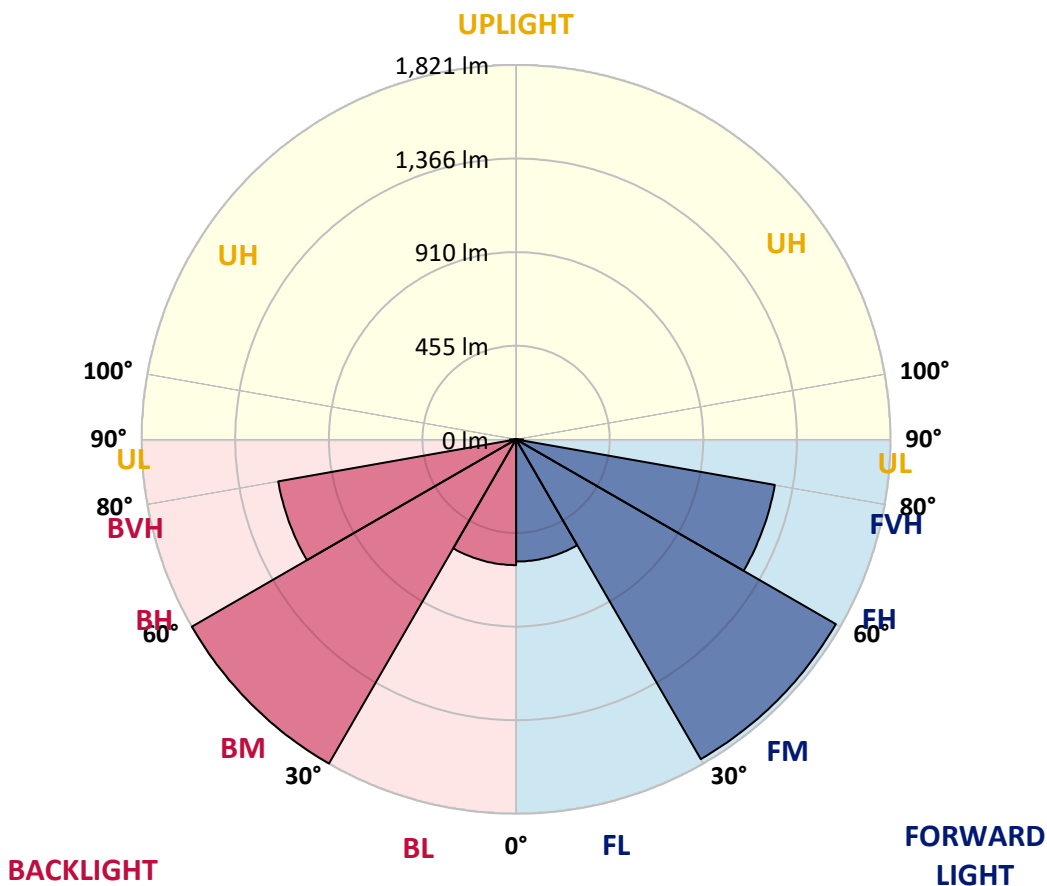
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.4	8.1			
FM (30°-60°)	1796.0	24.5			
FH (60°-80°)	1277.8	17.4			G1/1800
FVH (80°-90°)	33.4	0.5			G1/100
BL (0°-30°)	611.6	8.3	B2/1000		
BM (30°-60°)	1820.9	24.8	B2/2500		
BH (60°-80°)	1174.8	16.0	B3/2500		G3/2500
BVH (80°-90°)	29.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8
2.5°	1235.4	1234.4	1231.8	1239.7	1238.1	1238.6	1241.8	1239.7	1236.0	1229.7	1238.6
5°	1270.2	1269.7	1263.9	1268.7	1263.4	1259.7	1259.2	1253.9	1249.7	1242.8	1252.3
7.5°	1304.0	1303.4	1298.7	1307.1	1302.9	1298.7	1294.0	1283.4	1273.4	1263.4	1273.9
10°	1329.8	1329.3	1328.2	1340.3	1341.4	1343.0	1340.9	1322.9	1305.5	1293.4	1304.0
12.5°	1344.6	1346.1	1348.8	1370.9	1382.0	1392.5	1395.1	1380.4	1351.4	1334.0	1346.7
15°	1334.5	1337.7	1350.9	1390.9	1421.5	1445.2	1455.2	1443.1	1405.7	1376.7	1390.9
17.5°	1286.6	1289.2	1315.0	1376.2	1443.6	1498.5	1514.8	1507.4	1465.8	1430.5	1444.2
20°	1220.2	1226.0	1253.9	1339.3	1440.0	1535.3	1579.1	1576.5	1531.1	1476.8	1493.2
22.5°	1160.1	1166.9	1196.4	1290.8	1415.2	1544.8	1643.9	1650.8	1590.7	1523.2	1536.4
25°	1092.6	1098.9	1136.9	1233.3	1372.5	1537.5	1699.3	1730.4	1658.2	1576.5	1588.6
27.5°	1023.6	1028.3	1065.7	1168.5	1316.6	1523.8	1743.0	1817.9	1724.6	1613.4	1621.8
30°	963.0	969.3	1003.5	1103.7	1255.5	1496.3	1778.9	1911.1	1801.0	1655.0	1661.8
32.5°	904.4	909.7	947.1	1039.9	1190.6	1454.2	1811.0	2020.8	1914.3	1732.5	1732.5
35°	830.7	840.1	882.3	978.8	1129.5	1398.3	1834.2	2148.3	2069.3	1846.8	1847.4
37.5°	762.7	767.9	812.2	909.7	1065.2	1335.1	1836.3	2280.6	2265.3	1992.3	1993.4
40°	685.2	692.0	739.5	835.9	991.4	1268.7	1816.3	2404.0	2470.9	2142.0	2136.2
42.5°	606.7	616.7	662.0	756.3	911.8	1187.5	1763.0	2521.5	2731.8	2315.4	2301.2
45°	530.8	537.1	582.4	671.5	820.6	1090.5	1677.7	2634.3	3041.7	2578.9	2558.4
47.5°	445.4	448.0	494.9	580.3	726.3	982.5	1555.4	2735.0	3382.2	2927.9	2892.6
50°	369.5	373.2	410.1	483.3	610.9	854.4	1403.1	2794.0	3816.0	3403.8	3342.7
52.5°	298.8	302.5	332.1	390.6	504.9	708.4	1214.4	2780.3	4256.1	3994.7	3905.6
55°	241.4	244.0	264.1	309.9	397.4	563.4	991.4	2657.5	4744.7	4766.3	4574.4
57.5°	204.0	205.0	218.7	246.7	310.4	434.3	765.3	2367.6	5257.0	5750.8	5435.7
60°	182.4	182.9	189.2	206.6	245.1	331.5	560.8	1905.9	5787.7	6982.6	6550.4
62.5°	168.7	168.7	173.9	183.9	203.4	255.1	412.2	1368.8	6168.8	8322.9	7893.4
65°	155.5	155.5	159.2	167.6	178.1	208.2	309.4	882.8	6355.9	9443.5	9348.1
67.5°	138.6	139.1	141.8	150.7	160.2	173.9	234.5	597.2	5967.5	9753.4	10236.2
70°	122.8	123.3	127.0	132.8	140.7	150.2	183.4	411.6	4343.6	8123.2	9152.5
72.5°	105.4	107.5	110.2	116.5	121.2	128.1	149.7	266.7	2527.3	5225.4	6050.2
75°	86.4	89.1	92.2	98.6	101.7	104.4	123.3	190.3	1215.9	2648.0	3015.4
77.5°	66.9	69.6	73.3	79.1	81.2	84.3	94.3	137.6	582.4	1173.8	1265.5
80°	44.8	45.9	49.0	55.9	59.6	61.7	69.6	93.8	253.0	471.2	467.0
82.5°	27.4	27.9	29.0	33.2	34.8	36.9	45.3	57.5	120.7	535.5	614.0
85°	10.0	9.5	9.0	11.6	13.7	15.8	21.1	29.0	52.7	367.9	411.6
87.5°	0.0	0.0	0.0	0.5	1.1	1.1	2.1	4.2	12.6	137.6	94.3
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°	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8	1231.8
2.5°	1236.0	1230.2	1237.6	1242.8	1254.4	1258.6	1259.7	1256.0	1256.0	1249.7	1250.7
5°	1250.2	1246.5	1258.6	1267.6	1284.5	1290.8	1295.0	1292.4	1294.0	1289.7	1290.8
7.5°	1271.8	1268.7	1289.7	1307.1	1324.5	1331.9	1335.6	1333.5	1334.0	1328.7	1330.3
10°	1301.9	1302.9	1328.2	1350.9	1374.1	1381.4	1383.0	1376.7	1371.4	1361.9	1362.5
12.5°	1343.0	1348.2	1384.1	1409.4	1433.1	1443.6	1432.0	1408.9	1387.2	1370.9	1368.8
15°	1387.8	1397.3	1448.9	1481.1	1506.9	1501.6	1467.4	1415.2	1372.5	1348.2	1343.5
17.5°	1441.5	1455.8	1520.6	1559.1	1581.2	1547.5	1475.8	1397.8	1338.2	1305.5	1299.2
20°	1492.1	1514.8	1596.5	1646.6	1649.2	1573.3	1472.1	1362.5	1287.6	1247.6	1239.1
22.5°	1538.5	1567.5	1676.1	1739.9	1705.6	1584.9	1449.4	1312.4	1226.5	1179.6	1172.2
25°	1589.1	1630.2	1768.8	1828.4	1762.0	1580.2	1402.0	1250.2	1152.7	1104.7	1099.5
27.5°	1623.9	1675.5	1862.1	1919.1	1808.4	1553.3	1340.9	1182.2	1085.2	1039.9	1032.5
30°	1664.0	1729.8	1964.9	2017.6	1836.8	1513.7	1275.5	1119.0	1022.5	973.5	968.2
32.5°	1736.7	1819.4	2092.5	2122.0	1845.8	1464.7	1212.8	1057.8	957.2	908.1	900.8
35°	1853.7	1950.7	2271.7	2238.5	1838.9	1411.0	1153.2	986.1	890.2	844.4	837.0
37.5°	2001.3	2122.0	2471.4	2343.3	1820.0	1351.9	1082.6	926.1	830.1	783.8	779.5
40°	2138.8	2287.5	2695.4	2434.0	1781.5	1279.2	1014.6	863.3	765.3	716.3	706.8
42.5°	2311.2	2508.8	2954.7	2512.5	1718.2	1192.2	938.2	785.9	684.1	639.9	628.3
45°	2573.1	2818.8	3256.2	2587.9	1623.9	1085.2	842.3	691.5	595.1	549.7	540.8
47.5°	2899.9	3206.2	3583.0	2632.7	1480.5	972.4	733.7	591.9	495.4	444.3	440.1
50°	3359.0	3769.6	3933.5	2624.8	1320.3	838.6	611.4	473.3	392.7	355.8	350.0
52.5°	3918.2	4476.9	4312.5	2529.9	1150.1	686.2	476.5	371.6	311.5	285.1	280.4
55°	4619.8	5323.9	4711.5	2326.5	935.0	525.5	374.2	293.0	251.9	236.1	234.0
57.5°	5488.4	6420.7	5095.7	1983.9	703.1	401.1	288.3	241.9	222.4	212.9	212.4
60°	6634.7	7585.0	5429.3	1541.7	503.4	306.8	238.2	216.1	200.8	194.5	194.0
62.5°	7997.7	8642.3	5637.0	1049.9	378.4	244.6	209.8	196.1	187.1	183.4	182.9
65°	9398.7	9310.7	5537.9	687.8	287.3	207.7	188.2	180.8	172.9	169.2	169.2
67.5°	10226.2	9169.4	4777.3	477.5	227.7	182.4	169.7	162.9	149.7	146.5	146.5
70°	9057.7	7430.1	3131.3	349.4	184.5	159.7	147.6	138.1	132.8	129.7	129.1
72.5°	5990.7	4834.8	1665.0	242.5	153.9	136.0	124.9	121.2	114.9	111.7	111.2
75°	2981.6	2539.4	853.3	175.0	128.1	109.1	104.4	102.8	97.5	93.3	92.2
77.5°	1242.8	1130.6	397.9	127.0	97.5	88.0	83.8	83.8	78.0	73.3	71.2
80°	468.6	417.4	188.2	87.0	72.2	65.4	62.7	60.6	55.9	50.1	46.9
82.5°	626.7	409.5	92.2	54.3	47.4	42.2	38.5	36.9	34.3	31.6	29.5
85°	405.8	290.9	41.6	27.9	23.7	17.9	15.8	14.8	13.2	11.6	10.5
87.5°	82.7	97.5	12.6	5.3	3.2	1.6	1.6	0.5	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)