

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: P632418

Luminaire Tested: GWS-SA2C-760-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-760-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9612.4 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

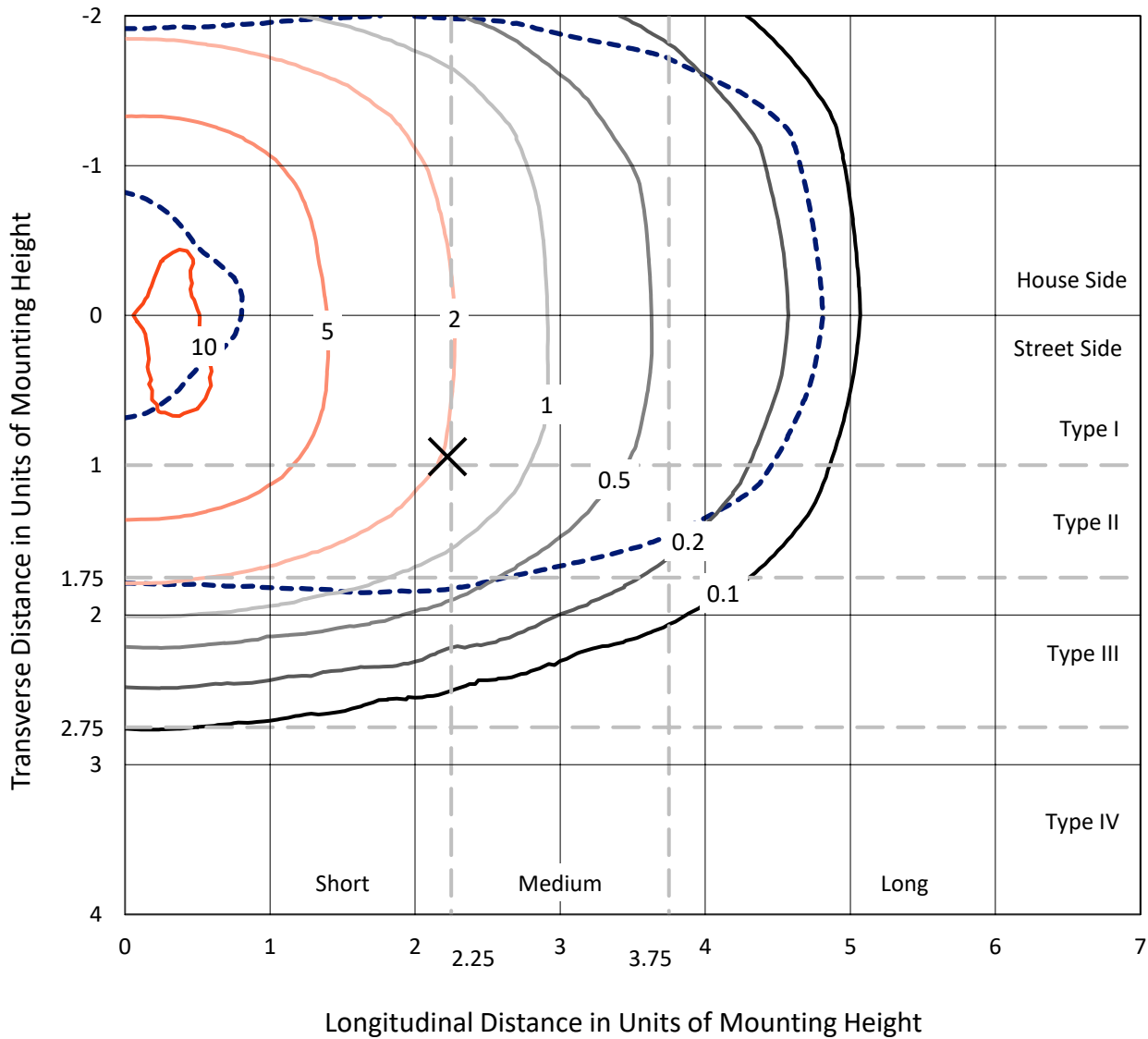
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

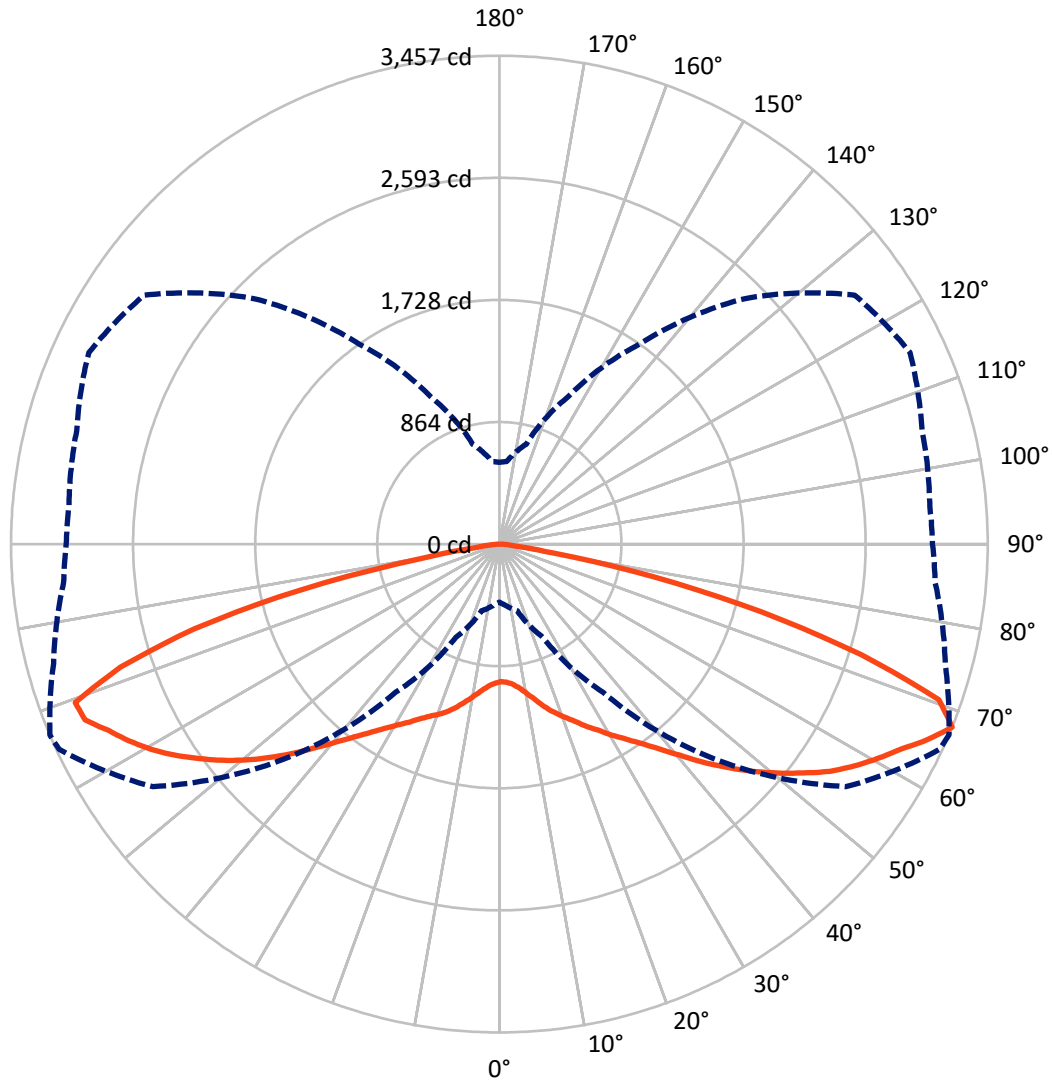
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4753.2	0.0	4753.2
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	4859.2	0.0	4859.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	9612.4	0.0	9612.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	1.0
10°-20°	322.6	3.4
20°-30°	633.0	6.6
30°-40°	1078.4	11.2
40°-50°	1731.6	18.0
50°-60°	2352.9	24.5
60°-70°	2250.7	23.4
70°-80°	1070.1	11.1
80°-90°	77.5	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°	9612.4	100.0
0°-180°	9612.4	100.0

Coefficient of Utilization



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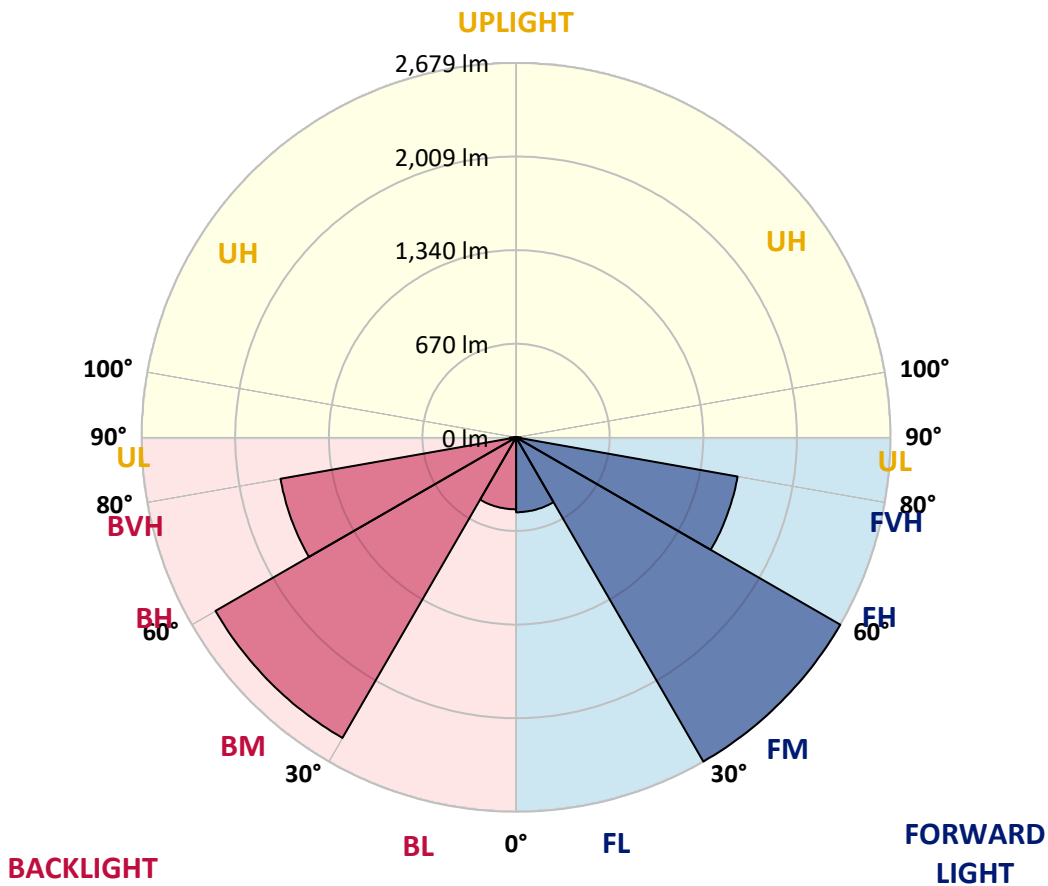
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.0	5.6			
FM (30°-60°)	2679.1	27.9			
FH (60°-80°)	1609.4	16.7			G1/1800
FVH (80°-90°)	34.9	0.4			G1/100
BL (0°-30°)	515.1	5.4	B2/1000		
BM (30°-60°)	2483.9	25.8	B2/2500		
BH (60°-80°)	1711.5	17.8	B3/2500		G3/2500
BVH (80°-90°)	42.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3
2.5°	953.2	954.6	956.6	960.6	964.6	970.6	976.7	976.0	978.7	980.7	982.7
5°	947.9	949.2	952.6	957.9	963.9	974.0	986.7	992.1	996.1	1003.4	1010.1
7.5°	959.3	961.9	966.6	974.0	983.4	996.1	1013.5	1022.8	1028.9	1042.3	1053.6
10°	974.6	978.0	987.4	1001.4	1015.5	1034.9	1057.0	1071.0	1075.1	1092.5	1113.9
12.5°	989.4	993.4	1008.8	1034.2	1059.7	1085.8	1111.9	1129.3	1130.6	1154.0	1178.1
15°	1012.8	1016.2	1036.9	1069.7	1108.5	1144.7	1176.8	1188.9	1194.2	1210.9	1241.1
17.5°	1064.3	1068.4	1095.1	1130.6	1171.5	1209.6	1241.7	1251.8	1251.8	1265.8	1290.6
20°	1119.9	1123.9	1159.4	1204.9	1254.5	1293.3	1318.1	1308.7	1305.3	1309.3	1326.8
22.5°	1182.2	1189.5	1223.7	1276.5	1337.5	1385.0	1397.7	1369.6	1360.2	1350.9	1354.9
25°	1261.8	1270.5	1304.0	1360.2	1419.8	1470.0	1477.4	1433.9	1428.5	1395.7	1383.7
27.5°	1353.5	1360.2	1401.7	1457.3	1512.8	1555.0	1563.1	1509.5	1491.4	1445.9	1417.8
30°	1472.0	1478.0	1514.2	1569.1	1617.3	1646.7	1656.8	1583.1	1569.1	1499.5	1455.9
32.5°	1601.2	1603.9	1640.7	1693.6	1736.4	1764.5	1750.5	1664.8	1644.0	1565.7	1506.2
35°	1749.1	1749.1	1796.7	1839.5	1873.7	1881.7	1854.9	1757.2	1733.1	1648.1	1573.8
37.5°	1894.4	1898.4	1942.6	1993.5	2023.6	2022.3	1973.4	1866.3	1838.8	1746.5	1664.1
40°	2051.7	2060.4	2104.6	2161.5	2190.3	2186.3	2111.3	1992.1	1964.0	1854.9	1774.6
42.5°	2196.3	2210.4	2261.9	2320.1	2351.6	2348.9	2270.6	2136.7	2109.3	1986.1	1905.8
45°	2311.4	2326.2	2390.4	2471.4	2521.6	2516.9	2438.0	2286.7	2253.2	2124.0	2035.6
47.5°	2412.5	2427.9	2499.5	2585.2	2664.9	2672.9	2600.6	2438.0	2402.5	2271.9	2172.2
50°	2490.2	2497.5	2577.9	2671.6	2764.0	2808.8	2745.9	2589.9	2547.1	2417.9	2305.4
52.5°	2484.1	2494.2	2593.3	2720.4	2844.3	2917.9	2874.4	2733.2	2691.7	2551.1	2441.3
55°	2361.6	2371.7	2489.5	2674.9	2889.1	2997.6	2992.9	2869.7	2839.6	2687.0	2582.5
57.5°	2182.9	2205.0	2322.2	2522.3	2830.2	3061.2	3079.9	2994.2	2962.8	2820.2	2722.5
60°	1862.9	1892.4	2027.6	2287.3	2641.5	3039.8	3173.0	3099.3	3079.9	2944.0	2849.0
62.5°	1353.5	1374.9	1555.0	1895.7	2361.6	2887.1	3251.3	3207.8	3193.0	3055.1	2963.4
65°	810.6	859.5	1004.1	1340.8	1905.1	2599.3	3208.4	3349.7	3334.3	3169.6	3061.2
67.5°	410.3	432.4	489.3	727.0	1281.2	2150.8	2993.6	3438.0	3456.8	3267.3	3096.0
70°	254.4	260.4	276.5	358.8	639.9	1413.1	2448.0	3207.8	3299.5	3252.0	3005.6
72.5°	204.2	205.5	208.2	223.6	307.3	660.7	1547.7	2512.3	2677.6	3037.1	2876.4
75°	169.4	170.0	170.7	175.4	191.4	269.8	753.1	1726.4	1919.8	2581.2	2666.9
77.5°	135.9	132.5	135.2	137.2	141.2	150.6	259.7	921.1	1117.2	1694.3	2062.4
80°	88.4	87.0	92.4	94.4	98.4	104.4	138.6	312.6	379.6	616.5	656.0
82.5°	47.5	44.8	56.2	54.2	56.2	60.9	81.7	114.5	128.5	186.1	157.3
85°	14.7	14.7	15.4	18.1	22.1	21.4	35.5	56.2	62.3	79.7	58.9
87.5°	2.7	2.7	2.7	2.7	2.7	3.3	7.4	11.4	15.4	27.4	20.8
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°	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3	973.3
2.5°	986.7	980.7	984.0	986.0	985.4	984.0	977.3	976.0	972.6	967.3	965.9
5°	1016.2	1009.5	1010.1	1008.1	1001.4	992.7	978.0	970.6	964.6	957.9	957.2
7.5°	1062.3	1055.0	1053.0	1043.6	1024.9	1004.8	981.3	968.0	957.9	949.2	947.9
10°	1121.2	1113.9	1107.2	1085.1	1054.3	1027.5	996.7	977.3	962.6	951.9	949.9
12.5°	1186.8	1180.8	1164.1	1132.0	1095.1	1063.7	1032.2	1008.1	986.7	970.6	968.6
15°	1259.8	1246.4	1221.0	1179.5	1144.7	1119.2	1081.1	1048.3	1014.1	992.7	988.0
17.5°	1310.7	1299.3	1269.2	1229.0	1201.6	1179.5	1134.6	1087.8	1041.6	1010.1	1003.4
20°	1346.8	1334.8	1300.6	1271.2	1262.5	1243.7	1191.5	1137.3	1083.8	1044.9	1036.2
22.5°	1372.9	1360.2	1325.4	1310.7	1322.7	1319.4	1268.5	1206.9	1143.3	1097.1	1086.4
25°	1397.7	1385.7	1354.9	1360.2	1392.4	1402.4	1347.5	1275.9	1203.6	1149.4	1136.6
27.5°	1421.1	1405.7	1391.7	1421.1	1466.7	1485.4	1427.2	1346.2	1267.8	1212.3	1202.2
30°	1457.3	1439.2	1437.2	1480.0	1552.3	1568.4	1504.1	1423.1	1345.5	1289.3	1276.5
32.5°	1502.8	1486.1	1487.4	1551.7	1635.3	1648.7	1593.8	1518.2	1440.6	1384.3	1366.9
35°	1564.4	1543.6	1555.0	1634.0	1718.4	1743.1	1698.9	1636.0	1560.4	1502.8	1483.4
37.5°	1649.4	1619.3	1642.7	1725.7	1810.7	1847.5	1813.4	1766.5	1691.6	1633.3	1615.3
40°	1757.8	1733.1	1742.5	1834.2	1921.9	1966.0	1944.6	1898.4	1824.1	1763.2	1742.5
42.5°	1886.4	1861.6	1858.3	1956.0	2043.7	2110.6	2089.9	2047.7	1970.7	1901.1	1881.0
45°	2012.2	1989.5	1994.1	2093.9	2192.3	2265.3	2244.5	2195.0	2111.3	2031.0	2014.9
47.5°	2143.4	2124.7	2128.7	2234.5	2342.9	2415.9	2389.8	2329.5	2231.8	2146.1	2126.7
50°	2278.0	2256.6	2262.6	2373.7	2490.8	2559.8	2519.6	2430.6	2322.8	2239.1	2222.4
52.5°	2411.9	2386.4	2401.8	2506.9	2628.1	2683.0	2608.7	2500.9	2396.5	2313.4	2294.7
55°	2565.8	2539.0	2522.3	2634.8	2754.6	2777.3	2675.6	2549.7	2425.9	2331.5	2320.1
57.5°	2706.4	2683.6	2652.2	2764.6	2853.0	2836.3	2727.1	2536.4	2354.3	2233.1	2217.1
60°	2832.2	2812.8	2785.4	2881.1	2921.3	2883.8	2685.6	2377.7	2177.6	2051.0	2043.7
62.5°	2948.0	2927.3	2901.9	2983.5	2978.2	2891.1	2496.9	2134.1	1866.3	1730.4	1718.4
65°	3039.8	3021.0	3013.6	3077.9	3069.2	2747.2	2203.0	1735.1	1363.6	1210.3	1205.6
67.5°	3065.9	3058.5	3098.0	3207.1	3071.2	2458.0	1727.7	1150.7	732.3	587.1	578.4
70°	2968.1	2967.5	3080.6	3236.6	2792.7	1877.7	1019.5	518.8	368.2	326.7	321.3
72.5°	2840.9	2838.9	2928.6	2792.1	2071.1	1027.5	429.1	277.8	230.3	218.9	218.9
75°	2632.1	2626.7	2694.3	2124.0	1164.8	386.9	227.6	190.8	180.7	178.7	178.7
77.5°	2145.4	2100.6	1994.1	1312.7	406.3	190.1	150.6	149.9	143.9	143.3	143.3
80°	705.5	705.5	820.0	500.7	179.4	117.1	106.4	111.8	105.8	101.7	101.1
82.5°	115.1	158.6	225.6	143.3	97.1	73.0	65.6	69.6	73.0	58.2	58.2
85°	45.5	59.6	87.0	66.9	44.8	29.5	31.5	34.8	30.8	26.8	26.1
87.5°	17.4	21.4	30.8	16.1	9.4	5.4	3.3	3.3	2.7	2.7	2.7
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)