

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: P630842

Luminaire Tested: GWS-SA1E-740-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630842  
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-SA1E-740-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

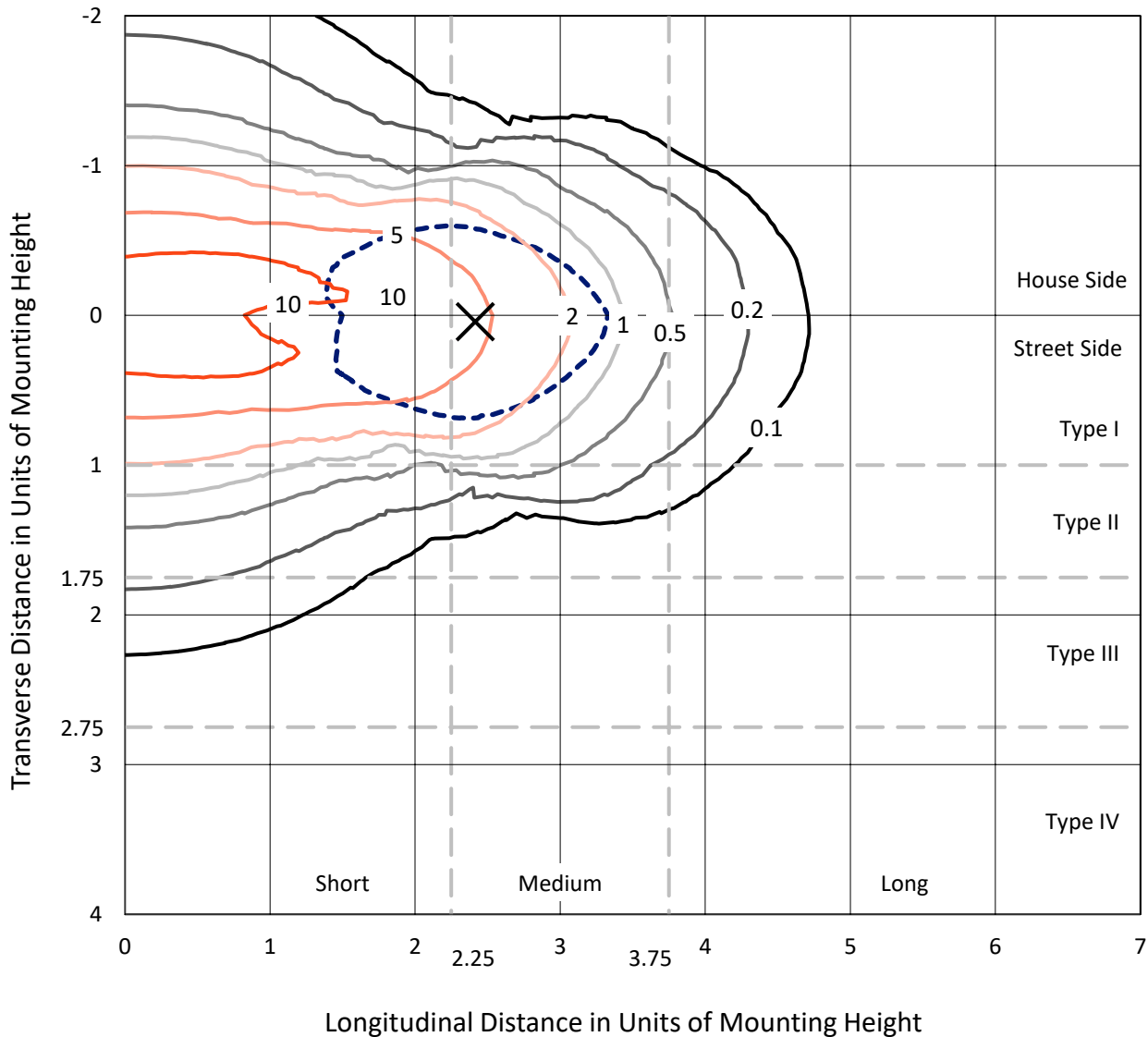
Lumens per Lamp: N/A  
Luminaire Lumens: 7563.7 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

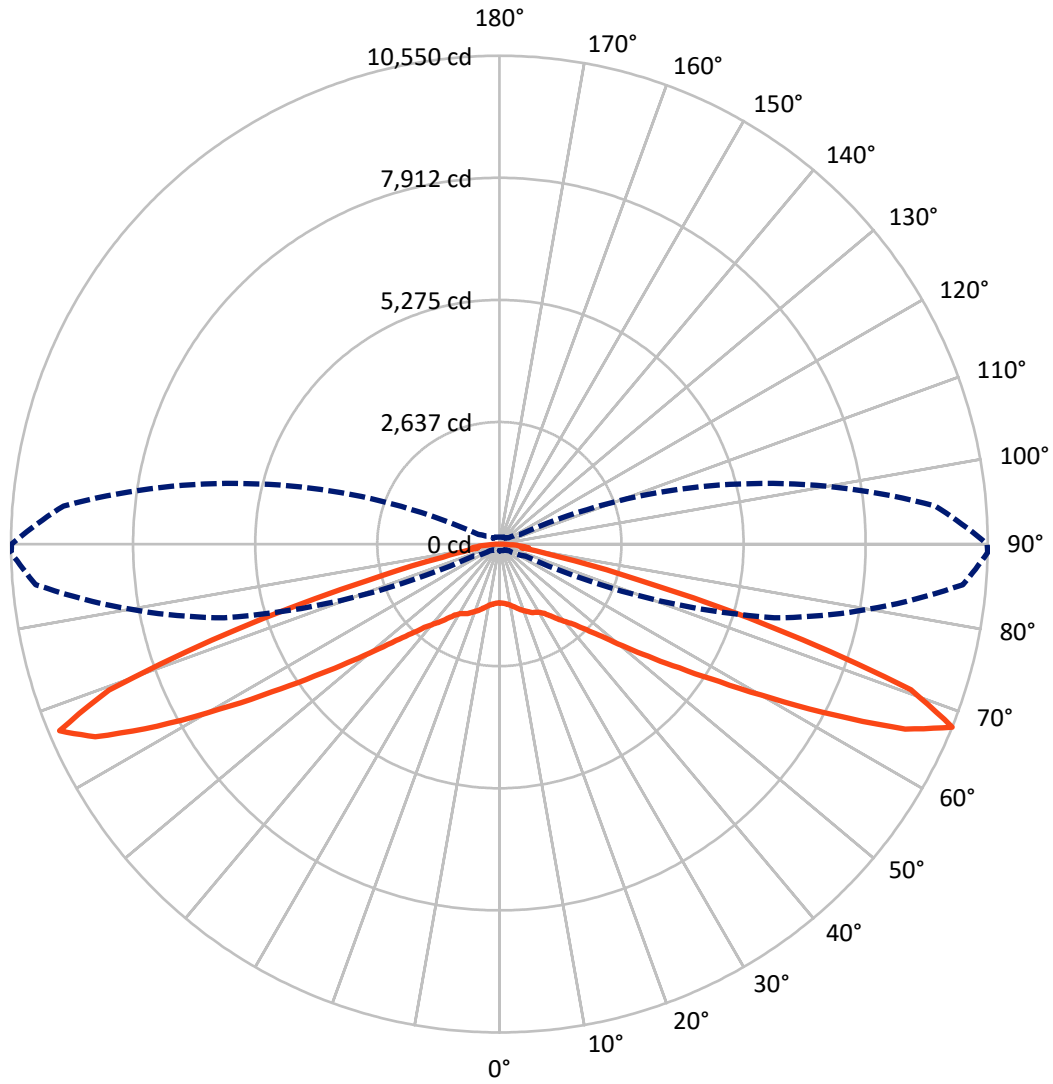
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 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
<b>House Side</b>	Lumens	3748.7	0.0	3748.7
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	3815.0	0.0	3815.0
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	7563.7	0.0	7563.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.3	1.7
10°-20°	414.6	5.5
20°-30°	700.9	9.3
30°-40°	961.9	12.7
40°-50°	1226.7	16.2
50°-60°	1539.1	20.3
60°-70°	1856.2	24.5
70°-80°	671.5	8.9
80°-90°	65.3	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°	7563.7	100.0
0°-180°	7563.7	100.0

**Coefficient of Utilization**



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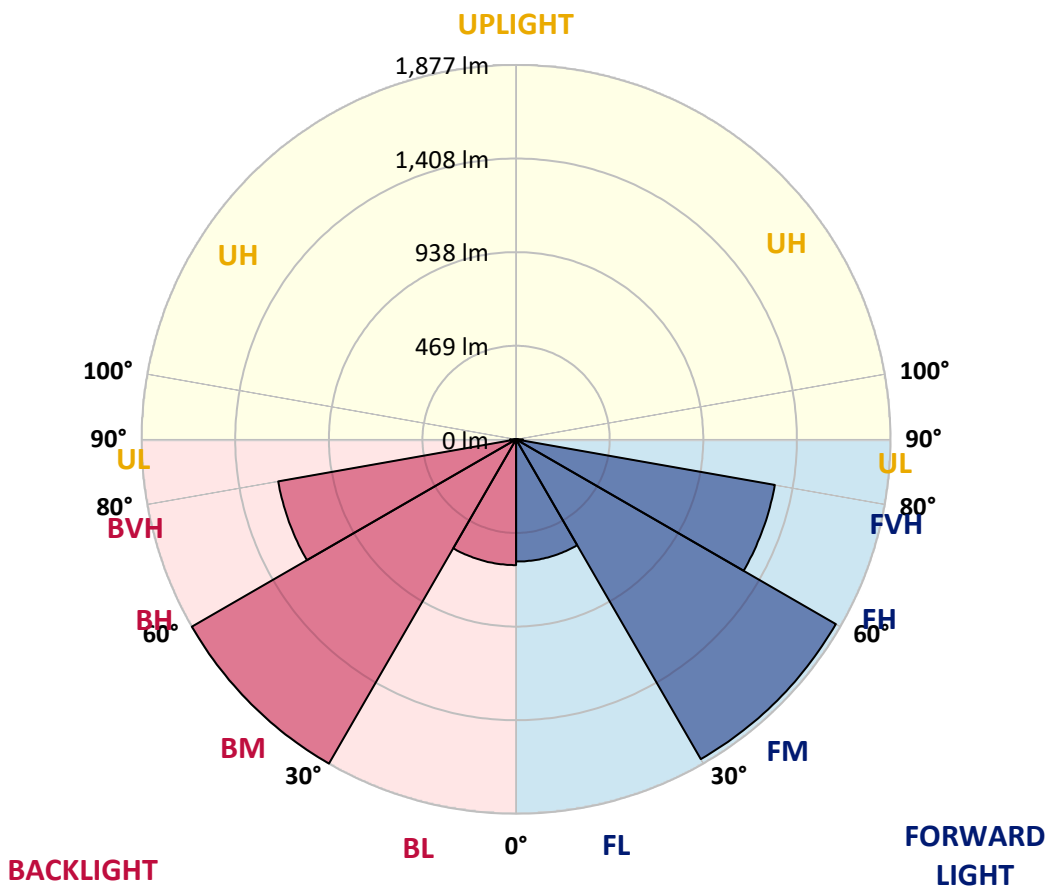
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.6	8.1			
FM (30°-60°)	1851.0	24.5			
FH (60°-80°)	1317.0	17.4			G1/1800
FVH (80°-90°)	34.5	0.5			G1/100
BL (0°-30°)	630.3	8.3	B2/1000		
BM (30°-60°)	1876.7	24.8	B2/2500		
BH (60°-80°)	1210.8	16.0	B3/2500		G3/2500
BVH (80°-90°)	30.8	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°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5
2.5°	1273.3	1272.2	1269.5	1277.7	1276.0	1276.6	1279.8	1277.7	1273.9	1267.3	1276.6
5°	1309.2	1308.6	1302.6	1307.5	1302.1	1298.3	1297.8	1292.3	1288.0	1280.9	1290.7
7.5°	1343.9	1343.4	1338.5	1347.2	1342.8	1338.5	1333.6	1322.7	1312.4	1302.1	1313.0
10°	1370.5	1370.0	1368.9	1381.4	1382.5	1384.1	1382.0	1363.5	1345.6	1333.1	1343.9
12.5°	1385.8	1387.4	1390.1	1412.9	1424.3	1435.2	1437.9	1422.7	1392.8	1374.9	1387.9
15°	1375.4	1378.7	1392.3	1433.6	1465.1	1489.5	1499.8	1487.3	1448.8	1418.9	1433.6
17.5°	1326.0	1328.7	1355.3	1418.3	1487.9	1544.4	1561.2	1553.6	1510.7	1474.3	1488.4
20°	1257.6	1263.5	1292.3	1380.3	1484.1	1582.4	1627.5	1624.8	1578.1	1522.1	1538.9
22.5°	1195.6	1202.7	1233.1	1330.3	1458.5	1592.2	1694.3	1701.4	1639.4	1569.9	1583.5
25°	1126.1	1132.6	1171.7	1271.1	1414.5	1584.6	1751.3	1783.4	1709.0	1624.8	1637.3
27.5°	1054.9	1059.8	1098.4	1204.3	1357.0	1570.5	1796.4	1873.6	1777.4	1662.8	1671.5
30°	992.5	999.0	1034.3	1137.5	1294.0	1542.2	1833.4	1969.7	1856.2	1705.7	1712.8
32.5°	932.2	937.6	976.2	1071.8	1227.1	1498.7	1866.5	2082.7	1973.0	1785.6	1785.6
35°	856.1	865.9	909.4	1008.8	1164.1	1441.2	1890.4	2214.2	2132.7	1903.4	1904.0
37.5°	786.0	791.5	837.1	937.6	1097.8	1376.0	1892.6	2350.5	2334.8	2053.4	2054.5
40°	706.2	713.2	762.1	861.5	1021.8	1307.5	1871.9	2477.6	2546.6	2207.6	2201.7
42.5°	625.2	635.6	682.3	779.5	939.8	1223.9	1817.1	2598.8	2815.5	2386.4	2371.7
45°	547.0	553.5	600.3	692.1	845.8	1123.9	1729.1	2715.0	3134.9	2658.0	2636.8
47.5°	459.0	461.7	510.1	598.1	748.6	1012.6	1603.0	2818.8	3485.8	3017.6	2981.2
50°	380.8	384.6	422.6	498.1	629.6	880.6	1446.1	2879.6	3932.9	3508.1	3445.1
52.5°	308.0	311.8	342.2	402.5	520.4	730.1	1251.6	2865.5	4386.5	4117.1	4025.3
55°	248.8	251.5	272.2	319.4	409.6	580.7	1021.8	2738.9	4890.1	4912.3	4714.6
57.5°	210.2	211.3	225.4	254.2	320.0	447.6	788.8	2440.1	5418.1	5927.1	5602.2
60°	188.0	188.5	195.0	212.9	252.6	341.7	578.0	1964.3	5965.1	7196.6	6751.1
62.5°	173.8	173.8	179.3	189.6	209.7	262.9	424.8	1410.7	6357.9	8578.0	8135.3
65°	160.3	160.3	164.1	172.7	183.6	214.6	318.9	909.9	6550.7	9732.9	9634.6
67.5°	142.9	143.4	146.1	155.4	165.1	179.3	241.7	615.5	6150.3	10052.3	10549.9
70°	126.6	127.1	130.9	136.9	145.0	154.8	189.0	424.3	4476.7	8372.1	9433.0
72.5°	108.6	110.8	113.5	120.1	124.9	132.0	154.3	274.9	2604.7	5385.5	6235.6
75°	89.1	91.8	95.1	101.6	104.8	107.6	127.1	196.1	1253.2	2729.1	3107.8
77.5°	69.0	71.7	75.5	81.5	83.7	86.9	97.2	141.8	600.3	1209.8	1304.3
80°	46.2	47.3	50.5	57.6	61.4	63.6	71.7	96.7	260.7	485.6	481.3
82.5°	28.2	28.8	29.9	34.2	35.9	38.0	46.7	59.2	124.4	551.9	632.9
85°	10.3	9.8	9.2	12.0	14.1	16.3	21.7	29.9	54.3	379.2	424.3
87.5°	0.0	0.0	0.0	0.5	1.1	1.1	2.2	4.3	13.0	141.8	97.2
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°	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5	1269.5
2.5°	1273.9	1267.9	1275.5	1280.9	1292.9	1297.2	1298.3	1294.5	1294.5	1288.0	1289.1
5°	1288.5	1284.7	1297.2	1306.4	1323.8	1330.3	1334.7	1332.0	1333.6	1329.3	1330.3
7.5°	1310.8	1307.5	1329.3	1347.2	1365.1	1372.7	1376.5	1374.3	1374.9	1369.5	1371.1
10°	1341.8	1342.8	1368.9	1392.3	1416.2	1423.8	1425.4	1418.9	1413.5	1403.7	1404.2
12.5°	1384.1	1389.6	1426.5	1452.6	1477.0	1487.9	1475.9	1452.0	1429.8	1412.9	1410.7
15°	1430.3	1440.1	1493.3	1526.4	1553.1	1547.6	1512.3	1458.5	1414.5	1389.6	1384.7
17.5°	1485.7	1500.4	1567.2	1606.8	1629.7	1594.9	1521.0	1440.6	1379.2	1345.6	1339.0
20°	1537.9	1561.2	1645.4	1697.0	1699.7	1621.5	1517.2	1404.2	1327.1	1285.8	1277.1
22.5°	1585.7	1615.5	1727.4	1793.2	1757.9	1633.5	1493.9	1352.6	1264.1	1215.7	1208.1
25°	1637.8	1680.2	1823.0	1884.4	1816.0	1628.6	1445.0	1288.5	1188.0	1138.6	1133.2
27.5°	1673.7	1726.9	1919.2	1977.9	1863.8	1600.9	1382.0	1218.4	1118.5	1071.8	1064.2
30°	1714.9	1782.8	2025.1	2079.4	1893.1	1560.1	1314.6	1153.3	1053.8	1003.3	997.9
32.5°	1789.9	1875.2	2156.6	2187.0	1902.4	1509.6	1250.0	1090.2	986.5	936.0	928.4
35°	1910.5	2010.5	2341.3	2307.1	1895.3	1454.2	1188.6	1016.4	917.5	870.2	862.6
37.5°	2062.6	2187.0	2547.2	2415.2	1875.7	1393.4	1115.8	954.4	855.6	807.8	803.4
40°	2204.4	2357.6	2778.0	2508.6	1836.1	1318.4	1045.7	889.8	788.8	738.2	728.5
42.5°	2382.0	2585.7	3045.3	2589.5	1770.9	1228.8	966.9	809.9	705.1	659.5	647.5
45°	2652.0	2905.1	3356.0	2667.2	1673.7	1118.5	868.1	712.7	613.3	566.6	557.3
47.5°	2988.8	3304.4	3692.8	2713.4	1525.9	1002.2	756.2	610.0	510.6	457.9	453.6
50°	3461.9	3885.1	4054.1	2705.2	1360.8	864.3	630.1	487.8	404.7	366.7	360.7
52.5°	4038.3	4614.1	4444.6	2607.5	1185.3	707.3	491.1	383.0	321.0	293.9	289.0
55°	4761.3	5487.1	4855.8	2397.8	963.7	541.6	385.7	302.0	259.7	243.4	241.2
57.5°	5656.6	6617.5	5251.9	2044.7	724.7	413.4	297.1	249.3	229.2	219.5	218.9
60°	6838.1	7817.5	5595.7	1588.9	518.8	316.2	245.5	222.7	207.0	200.4	199.9
62.5°	8242.8	8907.2	5809.7	1082.1	390.0	252.1	216.2	202.1	192.8	189.0	188.5
65°	9686.7	9596.0	5707.6	708.9	296.1	214.0	193.9	186.3	178.2	174.4	174.4
67.5°	10539.6	9450.4	4923.7	492.2	234.7	188.0	174.9	167.9	154.3	151.0	151.0
70°	9335.2	7657.8	3227.3	360.2	190.1	164.6	152.1	142.3	136.9	133.6	133.1
72.5°	6174.2	4983.0	1716.0	249.9	158.6	140.2	128.7	124.9	118.4	115.2	114.6
75°	3073.0	2617.2	879.5	180.3	132.0	112.4	107.6	105.9	100.5	96.2	95.1
77.5°	1280.9	1165.2	410.1	130.9	100.5	90.7	86.4	86.4	80.4	75.5	73.3
80°	482.9	430.2	193.9	89.6	74.4	67.4	64.6	62.5	57.6	51.6	48.3
82.5°	645.9	422.1	95.1	56.0	48.9	43.5	39.7	38.0	35.3	32.6	30.4
85°	418.3	299.9	42.9	28.8	24.4	18.5	16.3	15.2	13.6	12.0	10.9
87.5°	85.3	100.5	13.0	5.4	3.3	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)