

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: P639041

Luminaire Tested: GWS-SA5B-722-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12976.2 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

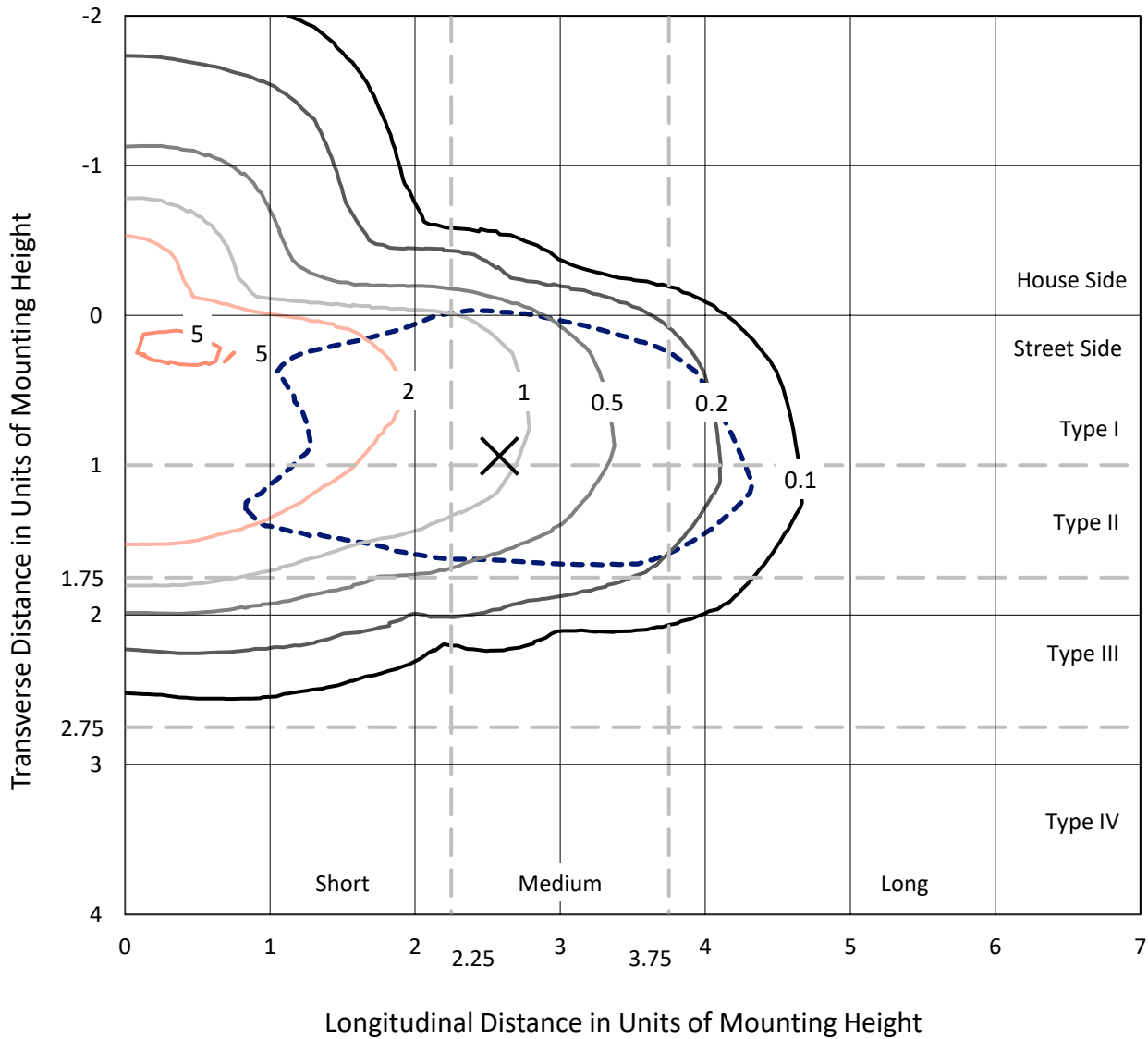
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

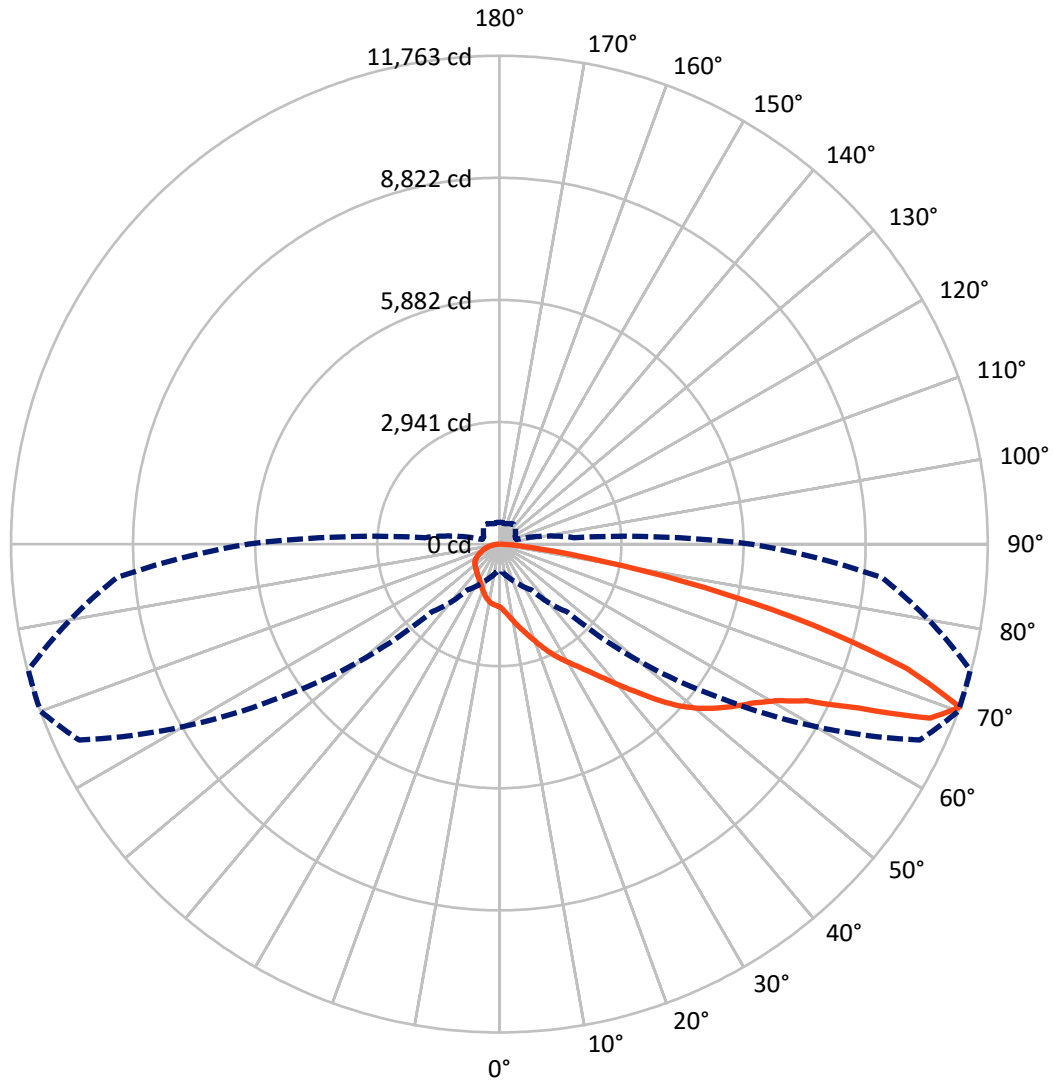
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2325.4	0.0	2325.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	10650.8	0.0	10650.8
	% Fixture	82.1	0.0	82.1
Total	Lumens	12976.2	0.0	12976.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	1.2
10°-20°	500.3	3.9
20°-30°	886.4	6.8
30°-40°	1334.0	10.3
40°-50°	2018.2	15.6
50°-60°	2891.2	22.3
60°-70°	3195.9	24.6
70°-80°	1803.5	13.9
80°-90°	192.9	1.5
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°	12976.2	100.0
0°-180°	12976.2	100.0

Coefficient of Utilization



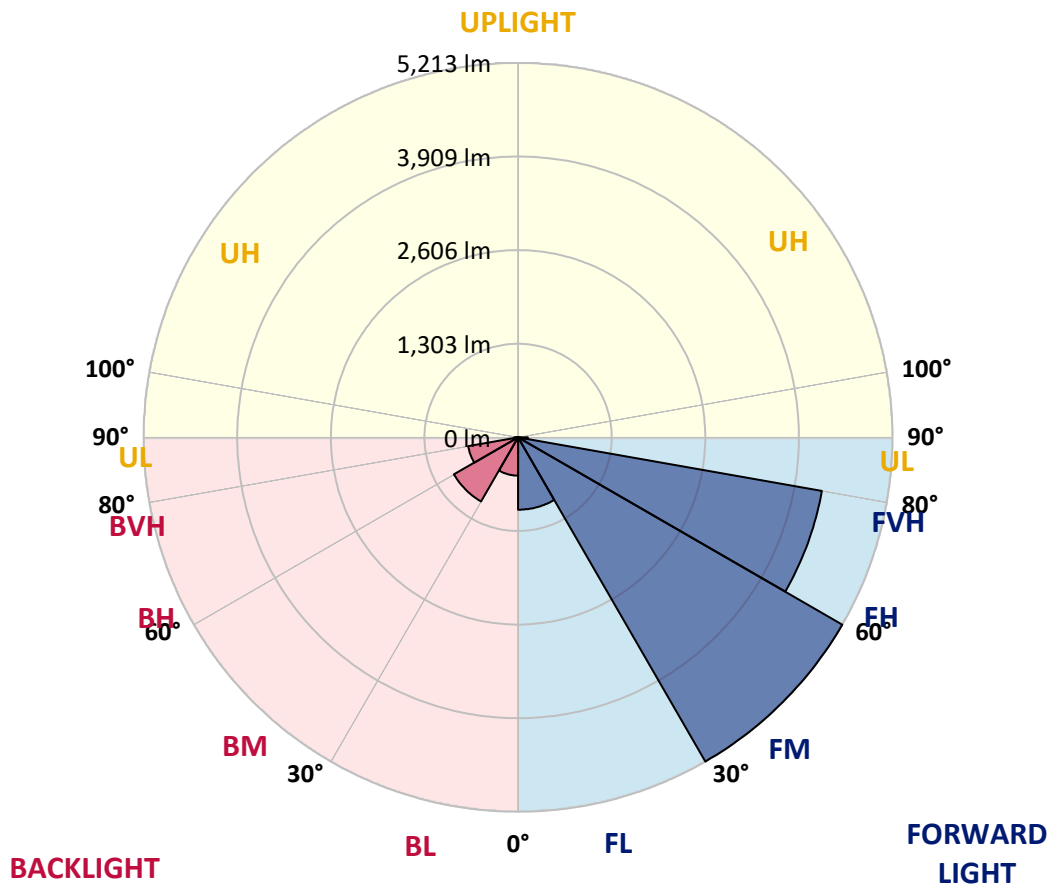
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.3	7.8			
FM (30°-60°)	5212.5	40.2			
FH (60°-80°)	4294.6	33.1			G2/5000
FVH (80°-90°)	136.4	1.1			G2/225
BL (0°-30°)	533.2	4.1	B2/1000		
BM (30°-60°)	1030.8	7.9	B2/2500		
BH (60°-80°)	704.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	56.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3
2.5°	1676.4	1673.6	1675.5	1673.6	1663.3	1638.0	1617.4	1591.1	1573.3	1563.0	1538.6
5°	1873.3	1870.5	1864.0	1854.6	1835.8	1801.1	1749.6	1692.4	1657.7	1631.4	1579.9
7.5°	2014.9	2014.9	2014.0	2002.7	1989.6	1953.0	1892.1	1817.1	1766.4	1721.4	1637.1
10°	2087.1	2091.8	2098.4	2114.3	2111.5	2091.8	2034.6	1954.0	1890.2	1837.7	1712.1
12.5°	2126.5	2129.3	2140.6	2173.4	2207.1	2211.8	2178.1	2093.7	2024.3	1954.0	1795.5
15°	2177.1	2178.1	2193.1	2232.4	2282.1	2331.8	2323.4	2239.0	2167.7	2089.9	1888.3
17.5°	2216.5	2223.1	2250.3	2296.2	2358.1	2426.5	2467.8	2415.3	2327.1	2238.1	1989.6
20°	2230.6	2235.2	2270.9	2341.2	2425.6	2522.2	2614.0	2600.0	2510.9	2405.9	2104.0
22.5°	2281.2	2281.2	2307.4	2366.5	2465.9	2606.5	2755.6	2792.2	2713.4	2590.6	2226.8
25°	2392.8	2389.0	2401.2	2425.6	2500.6	2674.0	2895.3	3005.0	2916.9	2779.1	2349.6
27.5°	2545.6	2543.7	2542.8	2546.5	2571.8	2733.1	3013.5	3203.8	3115.7	2960.0	2459.3
30°	2711.6	2705.9	2718.1	2706.9	2701.2	2803.4	3113.8	3381.9	3313.5	3139.1	2550.3
32.5°	2937.5	2927.2	2924.4	2887.8	2865.3	2913.1	3194.4	3584.5	3530.1	3332.2	2652.5
35°	3235.7	3226.3	3178.5	3120.3	3053.8	3076.3	3294.7	3782.3	3786.0	3574.1	2786.6
37.5°	3536.6	3538.5	3501.0	3364.1	3295.7	3282.6	3447.6	4023.3	4103.9	3862.9	2960.0
40°	3787.0	3798.2	3798.2	3653.8	3551.6	3539.5	3662.3	4309.2	4469.6	4217.3	3179.4
42.5°	3977.3	3987.6	4020.4	3916.4	3808.5	3850.7	3922.9	4596.1	4884.0	4655.2	3456.9
45°	4186.4	4194.8	4212.7	4152.7	4089.8	4202.3	4218.3	4939.3	5358.4	5146.5	3779.5
47.5°	4463.9	4456.4	4458.3	4414.2	4365.5	4547.4	4543.6	5228.1	5816.9	5684.7	4129.2
50°	4809.0	4823.0	4809.9	4722.7	4665.5	4831.5	4853.0	5547.8	6220.1	6217.3	4481.7
52.5°	5140.9	5146.5	5215.9	5219.6	5102.4	5067.8	5124.0	5870.3	6560.4	6704.8	4820.2
55°	5157.8	5179.3	5387.5	5537.5	5726.9	5448.4	5397.8	6177.9	6889.5	7182.1	5171.8
57.5°	4798.7	4833.4	5186.8	5510.3	6037.2	6101.9	5866.6	6575.4	7218.6	7651.8	5578.7
60°	4031.7	4103.9	4583.9	5079.0	5897.5	6571.7	6825.8	7115.5	7650.9	8131.8	6072.9
62.5°	2574.7	2602.8	3276.0	4104.8	5268.4	6525.7	7870.3	8067.1	8309.1	8757.2	6834.2
65°	1289.2	1379.2	1773.9	2450.0	3799.2	5750.3	8398.1	9810.2	9513.9	9828.0	8068.1
67.5°	874.8	903.9	1103.6	1472.0	2227.7	4073.9	8070.9	11278.4	11191.2	11242.8	9383.5
70°	645.1	663.8	821.3	1042.6	1347.3	2313.1	6425.4	11167.8	11763.2	11744.4	9245.7
72.5°	470.7	480.1	599.1	796.0	998.5	1196.4	3923.9	9021.6	10268.6	10809.6	8085.9
75°	342.2	353.5	416.3	595.4	776.3	746.3	1937.1	6516.4	7830.9	8871.6	6587.6
77.5°	255.0	269.1	298.2	373.2	543.8	534.4	837.3	4231.4	5064.9	5794.4	4001.7
80°	183.8	186.6	203.5	239.1	345.0	313.2	398.5	2206.2	2529.7	2771.6	1568.6
82.5°	111.6	114.4	136.0	147.2	213.8	196.9	207.2	714.5	1023.9	1086.7	586.0
85°	32.8	34.7	61.9	67.5	89.1	84.4	83.4	290.7	346.9	443.5	230.7
87.5°	0.0	0.0	0.0	0.0	0.9	5.6	10.3	51.6	77.8	107.8	56.3
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°	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3	1513.3
2.5°	1529.2	1507.7	1496.4	1476.7	1462.7	1448.6	1434.5	1421.4	1415.8	1407.3	1409.2
5°	1556.4	1522.7	1488.9	1450.5	1417.7	1390.5	1366.1	1344.5	1335.1	1326.7	1330.5
7.5°	1597.7	1547.0	1482.4	1412.0	1360.5	1323.0	1297.6	1282.6	1278.0	1271.4	1271.4
10°	1650.2	1574.2	1460.8	1360.5	1298.6	1268.6	1257.3	1256.4	1261.1	1262.0	1260.1
12.5°	1708.3	1600.5	1428.9	1299.5	1247.0	1237.6	1246.1	1262.0	1278.0	1286.4	1284.5
15°	1768.3	1617.4	1374.5	1241.4	1209.5	1221.7	1248.9	1280.8	1311.7	1327.6	1326.7
17.5°	1824.6	1621.1	1304.2	1185.1	1176.7	1207.6	1254.5	1304.2	1346.4	1368.9	1369.8
20°	1887.4	1614.6	1232.0	1134.5	1143.9	1194.5	1256.4	1316.4	1366.1	1388.6	1394.2
22.5°	1944.6	1592.1	1161.7	1086.7	1115.7	1178.6	1241.4	1297.6	1341.7	1363.3	1370.8
25°	1996.2	1548.9	1084.8	1046.4	1094.2	1156.1	1203.9	1243.3	1274.2	1287.3	1297.6
27.5°	2024.3	1484.2	1026.7	1014.5	1073.6	1124.2	1150.4	1162.6	1172.9	1169.2	1176.7
30°	2029.9	1403.6	976.0	989.2	1042.6	1080.1	1085.7	1073.6	1055.7	1026.7	1033.2
32.5°	2024.3	1310.8	933.9	962.0	1007.9	1030.4	1022.9	991.0	947.9	902.9	905.7
35°	2026.2	1217.0	899.2	932.0	967.6	979.8	961.0	917.0	871.0	829.8	827.9
37.5°	2046.8	1138.3	870.1	902.9	928.2	930.1	909.5	863.5	840.1	809.2	805.4
40°	2104.0	1080.1	843.8	873.8	889.8	888.8	865.4	832.6	848.5	838.2	835.4
42.5°	2197.7	1044.5	822.3	842.9	854.2	856.0	837.3	816.7	851.3	838.2	833.5
45°	2348.7	1042.6	807.3	812.0	829.8	842.9	829.8	806.3	819.5	755.7	743.5
47.5°	2527.8	1074.5	796.0	784.8	815.7	839.2	818.5	781.0	753.8	695.7	687.3
50°	2743.4	1139.2	785.7	755.7	795.1	825.1	804.5	752.9	711.6	680.7	676.0
52.5°	2999.4	1224.5	772.6	722.9	764.1	817.6	804.5	750.1	695.7	667.6	662.9
55°	3267.6	1323.0	757.6	683.5	729.5	819.5	811.0	730.4	683.5	668.5	664.8
57.5°	3600.4	1441.1	730.4	637.6	698.5	802.6	784.8	719.1	675.1	662.9	659.1
60°	4032.6	1616.4	678.8	590.7	662.9	772.6	761.3	700.4	652.6	642.3	639.4
62.5°	4717.1	1913.7	616.0	545.7	620.7	709.8	726.6	664.8	624.4	623.5	622.6
65°	5832.8	2270.9	541.9	505.4	576.6	658.2	680.7	628.2	595.4	605.7	604.8
67.5°	6614.8	2301.8	481.0	463.2	525.1	601.9	634.8	590.7	555.1	574.8	573.8
70°	6058.8	1795.5	428.5	419.1	469.7	541.0	585.1	543.8	508.2	526.9	523.2
72.5°	5109.9	1376.4	378.8	373.2	413.5	477.2	521.3	496.9	459.4	459.4	451.0
75°	4106.7	1135.4	326.3	323.5	350.7	412.5	462.2	421.0	386.3	384.4	378.8
77.5°	2355.3	744.5	273.8	271.9	280.3	345.0	359.1	350.7	324.4	312.2	308.5
80°	938.5	387.2	215.6	203.5	211.9	253.2	283.2	269.1	246.6	231.6	223.1
82.5°	363.8	194.1	151.9	133.1	145.3	182.8	205.3	200.6	185.6	151.9	142.5
85°	148.1	94.7	90.9	76.9	84.4	98.4	118.1	102.2	84.4	60.0	57.2
87.5°	39.4	34.7	33.8	20.6	15.9	4.7	0.9	0.0	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)