

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: P633596

Luminaire Tested: GWS-SA2F-722-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633596
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-SA2F-722-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11855.7 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

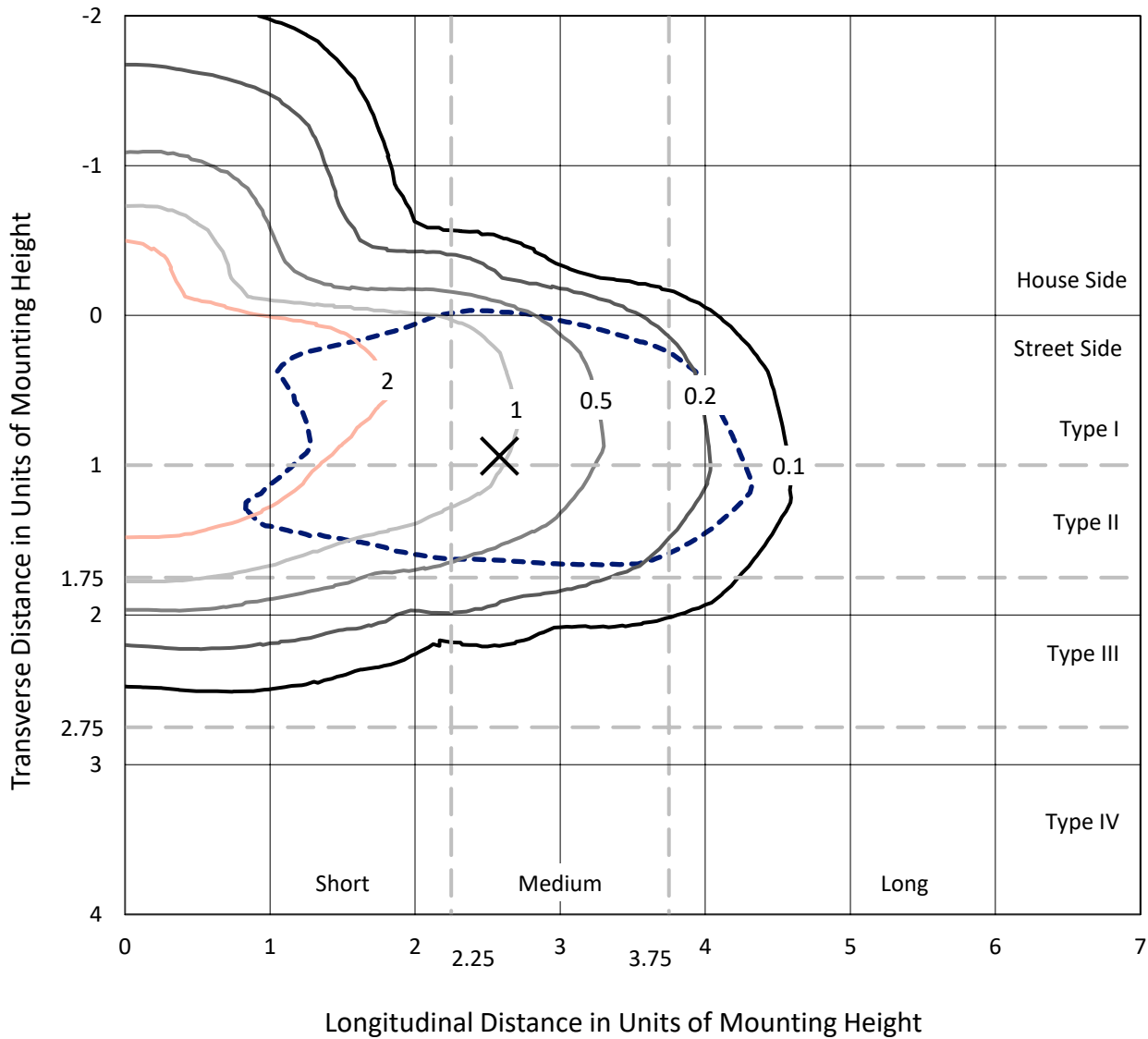
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

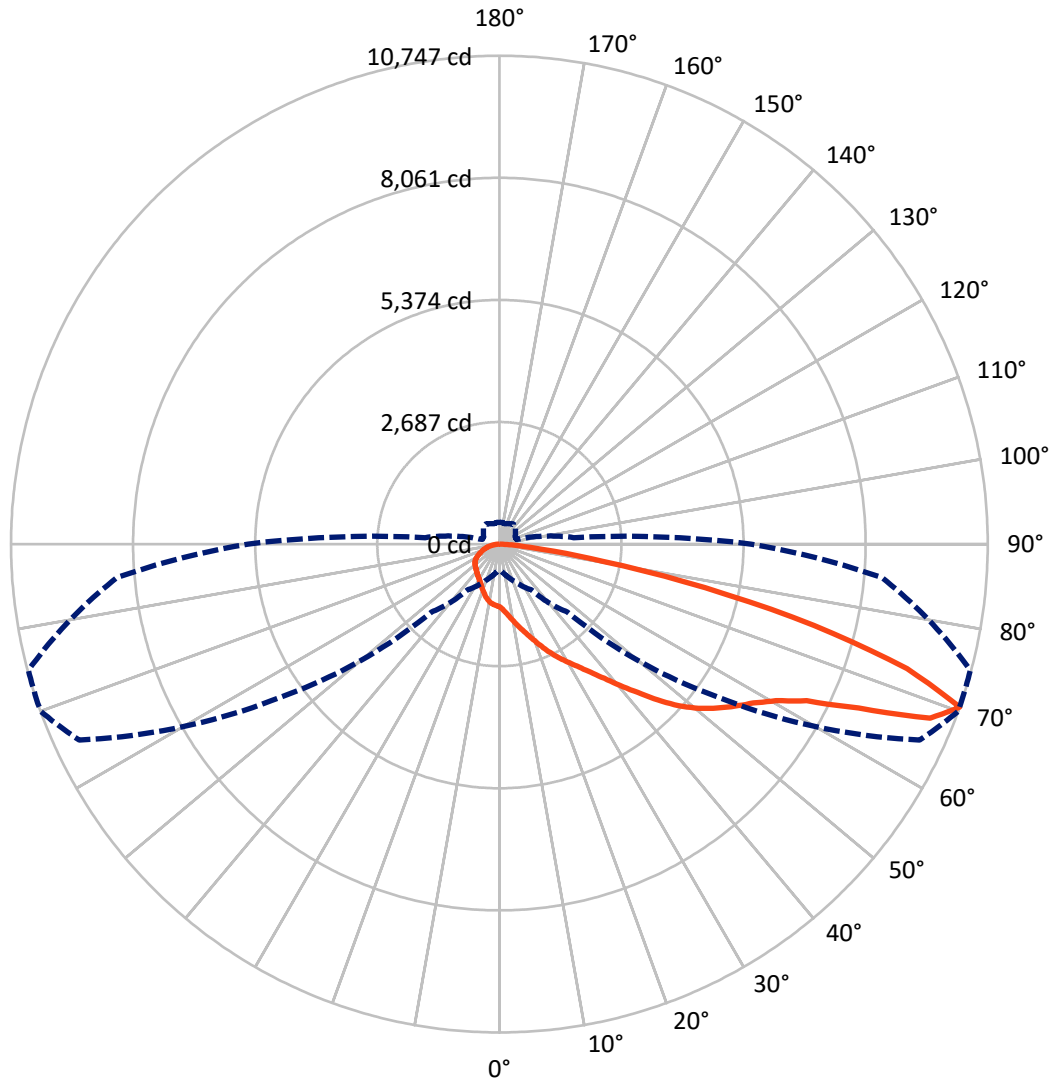
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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	2124.6	0.0	2124.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	9731.1	0.0	9731.1
	% Fixture	82.1	0.0	82.1
Total	Lumens	11855.7	0.0	11855.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	1.2
10°-20°	457.1	3.9
20°-30°	809.8	6.8
30°-40°	1218.8	10.3
40°-50°	1843.9	15.6
50°-60°	2641.5	22.3
60°-70°	2919.9	24.6
70°-80°	1647.8	13.9
80°-90°	176.3	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°	11855.7	100.0
0°-180°	11855.7	100.0

Coefficient of Utilization



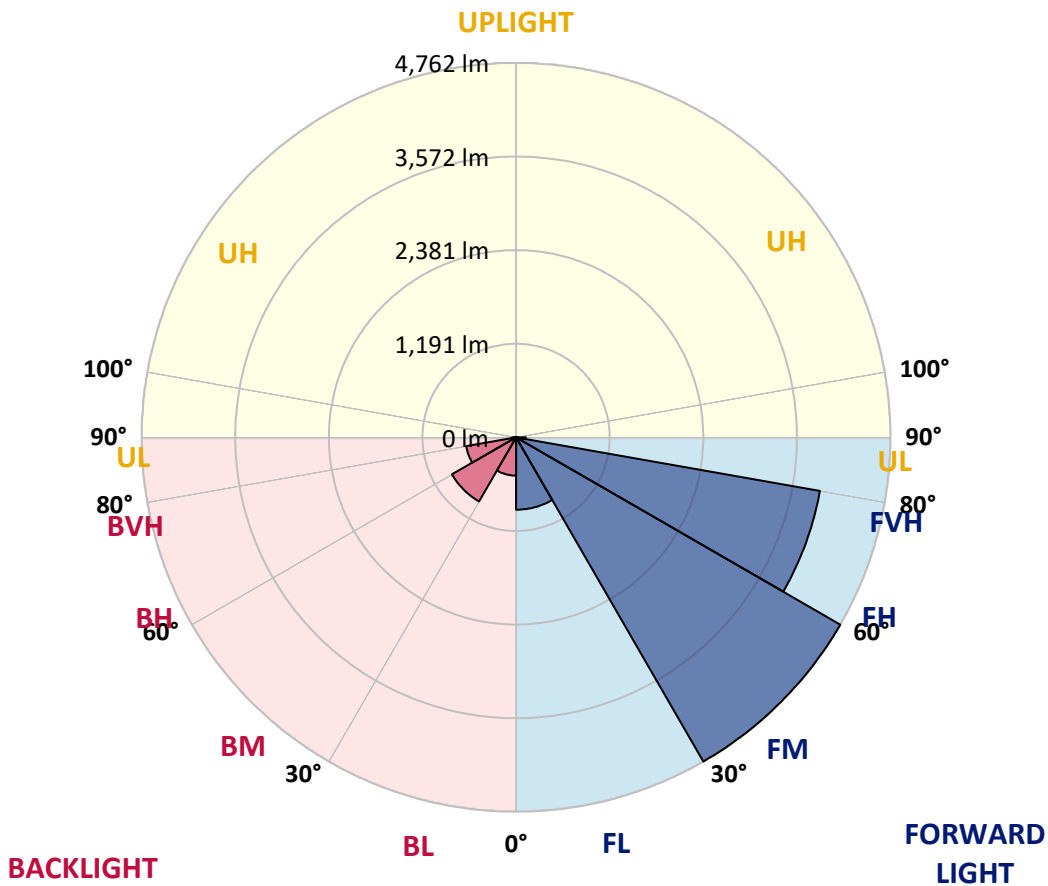
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	920.4	7.8			
FM (30°-60°)	4762.4	40.2			
FH (60°-80°)	3923.7	33.1			G2/5000
FVH (80°-90°)	124.6	1.1			G2/225
BL (0°-30°)	487.1	4.1	B1/500		
BM (30°-60°)	941.8	7.9	B1/1000		
BH (60°-80°)	643.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	51.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1531.7	1529.1	1530.8	1529.1	1519.7	1496.6	1477.7	1453.7	1437.4	1428.0	1405.7
5°	1711.6	1709.0	1703.0	1694.4	1677.3	1645.6	1598.5	1546.2	1514.5	1490.6	1443.4
7.5°	1840.9	1840.9	1840.1	1829.8	1817.8	1784.4	1728.7	1660.2	1613.9	1572.8	1495.7
10°	1906.9	1911.2	1917.2	1931.7	1929.2	1911.2	1858.9	1785.2	1727.0	1679.0	1564.2
12.5°	1942.9	1945.4	1955.7	1985.7	2016.5	2020.8	1990.0	1912.9	1849.5	1785.2	1640.5
15°	1989.1	1990.0	2003.7	2039.7	2085.1	2130.5	2122.8	2045.7	1980.6	1909.5	1725.3
17.5°	2025.1	2031.1	2055.9	2097.9	2154.5	2217.0	2254.7	2206.7	2126.2	2044.8	1817.8
20°	2038.0	2042.2	2074.8	2139.0	2216.1	2304.4	2388.3	2375.5	2294.1	2198.1	1922.3
22.5°	2084.2	2084.2	2108.2	2162.2	2253.0	2381.5	2517.7	2551.1	2479.1	2366.9	2034.5
25°	2186.2	2182.7	2193.9	2216.1	2284.7	2443.1	2645.3	2745.5	2665.0	2539.1	2146.7
27.5°	2325.8	2324.1	2323.2	2326.6	2349.8	2497.1	2753.2	2927.1	2846.6	2704.4	2247.0
30°	2477.4	2472.3	2483.4	2473.1	2468.0	2561.4	2844.9	3089.9	3027.4	2868.0	2330.1
32.5°	2683.9	2674.4	2671.9	2638.5	2617.9	2661.6	2918.6	3274.9	3225.3	3044.5	2423.4
35°	2956.3	2947.7	2904.0	2850.9	2790.1	2810.6	3010.2	3455.7	3459.1	3265.5	2545.9
37.5°	3231.3	3233.0	3198.7	3073.6	3011.1	2999.1	3149.9	3675.9	3749.5	3529.4	2704.4
40°	3460.0	3470.3	3470.3	3338.3	3245.0	3233.8	3346.0	3937.1	4083.6	3853.2	2904.9
42.5°	3633.9	3643.3	3673.3	3578.2	3479.7	3518.2	3584.2	4199.3	4462.2	4253.2	3158.4
45°	3824.9	3832.6	3848.9	3794.1	3736.7	3839.5	3854.0	4512.8	4895.7	4702.1	3453.1
47.5°	4078.5	4071.6	4073.3	4033.1	3988.5	4154.7	4151.3	4776.6	5314.6	5193.8	3772.7
50°	4393.7	4406.6	4394.6	4314.9	4262.7	4414.3	4434.0	5068.8	5683.0	5680.4	4094.7
52.5°	4697.0	4702.1	4765.5	4768.9	4661.8	4630.1	4681.5	5363.4	5993.9	6125.8	4404.0
55°	4712.4	4732.1	4922.3	5059.3	5232.4	4977.9	4931.7	5644.4	6294.6	6561.9	4725.2
57.5°	4384.3	4416.0	4738.9	5034.5	5515.9	5575.0	5360.0	6007.6	6595.3	6991.1	5097.0
60°	3683.6	3749.5	4188.1	4640.4	5388.3	6004.2	6236.4	6501.1	6990.2	7429.7	5548.5
62.5°	2352.3	2378.0	2993.1	3750.4	4813.5	5962.2	7190.7	7370.5	7591.6	8001.0	6244.1
65°	1177.9	1260.1	1620.8	2238.4	3471.1	5253.8	7672.9	8963.0	8692.3	8979.3	7371.4
67.5°	799.2	825.8	1008.3	1344.9	2035.4	3722.1	7374.0	10304.5	10224.9	10272.0	8573.3
70°	589.4	606.5	750.4	952.6	1231.0	2113.3	5870.6	10203.5	10747.4	10730.3	8447.3
72.5°	430.0	438.6	547.4	727.3	912.3	1093.1	3585.0	8242.6	9381.9	9876.2	7387.7
75°	312.7	323.0	380.3	544.0	709.3	681.9	1769.8	5953.7	7154.7	8105.5	6018.8
77.5°	233.0	245.9	272.4	340.9	496.9	488.3	765.0	3866.0	4627.6	5294.0	3656.1
80°	167.9	170.5	185.9	218.4	315.2	286.1	364.1	2015.7	2311.2	2532.2	1433.2
82.5°	101.9	104.5	124.2	134.5	195.3	179.9	189.3	652.8	935.5	992.8	535.4
85°	30.0	31.7	56.5	61.7	81.4	77.1	76.2	265.6	317.0	405.2	210.7
87.5°	0.0	0.0	0.0	0.0	0.9	5.1	9.4	47.1	71.1	98.5	51.4
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°	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6	1382.6
2.5°	1397.2	1377.5	1367.2	1349.2	1336.4	1323.5	1310.7	1298.7	1293.5	1285.8	1287.5
5°	1422.0	1391.2	1360.3	1325.2	1295.2	1270.4	1248.1	1228.4	1219.9	1212.1	1215.6
7.5°	1459.7	1413.5	1354.4	1290.1	1243.0	1208.7	1185.6	1171.9	1167.6	1161.6	1161.6
10°	1507.7	1438.3	1334.6	1243.0	1186.4	1159.0	1148.8	1147.9	1152.2	1153.0	1151.3
12.5°	1560.8	1462.3	1305.5	1187.3	1139.3	1130.8	1138.5	1153.0	1167.6	1175.3	1173.6
15°	1615.6	1477.7	1255.8	1134.2	1105.1	1116.2	1141.0	1170.2	1198.4	1213.0	1212.1
17.5°	1667.0	1481.1	1191.6	1082.8	1075.1	1103.4	1146.2	1191.6	1230.1	1250.7	1251.6
20°	1724.4	1475.1	1125.6	1036.5	1045.1	1091.4	1147.9	1202.7	1248.1	1268.7	1273.8
22.5°	1776.7	1454.6	1061.4	992.8	1019.4	1076.8	1134.2	1185.6	1225.9	1245.6	1252.4
25°	1823.8	1415.2	991.1	956.0	999.7	1056.2	1099.9	1135.9	1164.2	1176.2	1185.6
27.5°	1849.5	1356.1	938.0	926.9	980.9	1027.1	1051.1	1062.2	1071.7	1068.2	1075.1
30°	1854.6	1282.4	891.8	903.8	952.6	986.9	992.0	980.9	964.6	938.0	944.0
32.5°	1849.5	1197.6	853.2	878.9	920.9	941.4	934.6	905.5	866.1	824.9	827.5
35°	1851.2	1111.9	821.5	851.5	884.1	895.2	878.1	837.8	795.8	758.1	756.4
37.5°	1870.0	1040.0	795.0	824.9	848.1	849.8	830.9	789.0	767.6	739.3	735.9
40°	1922.3	986.9	771.0	798.4	813.0	812.1	790.7	760.7	775.3	765.8	763.3
42.5°	2008.0	954.3	751.3	770.1	780.4	782.1	765.0	746.1	777.8	765.8	761.6
45°	2145.9	952.6	737.6	741.9	758.1	770.1	758.1	736.7	748.7	690.5	679.3
47.5°	2309.5	981.7	727.3	717.0	745.3	766.7	747.8	713.6	688.7	635.6	627.9
50°	2506.5	1040.8	717.9	690.5	726.4	753.8	735.0	687.9	650.2	621.9	617.6
52.5°	2740.4	1118.8	705.9	660.5	698.2	747.0	735.0	685.3	635.6	609.9	605.6
55°	2985.4	1208.7	692.2	624.5	666.5	748.7	741.0	667.3	624.5	610.8	607.4
57.5°	3289.5	1316.7	667.3	582.5	638.2	733.3	717.0	657.0	616.8	605.6	602.2
60°	3684.4	1476.9	620.2	539.7	605.6	705.9	695.6	639.9	596.2	586.8	584.2
62.5°	4309.8	1748.4	562.8	498.6	567.1	648.5	663.9	607.4	570.5	569.7	568.8
65°	5329.2	2074.8	495.1	461.7	526.8	601.4	621.9	574.0	544.0	553.4	552.5
67.5°	6043.6	2103.1	439.5	423.2	479.7	550.0	579.9	539.7	507.1	525.1	524.3
70°	5535.6	1640.5	391.5	382.9	429.2	494.3	534.5	496.9	464.3	481.4	478.0
72.5°	4668.7	1257.6	346.1	340.9	377.8	436.0	476.3	454.0	419.8	419.8	412.0
75°	3752.1	1037.4	298.1	295.5	320.4	376.9	422.3	384.6	352.9	351.2	346.1
77.5°	2151.9	680.2	250.1	248.4	256.1	315.2	328.1	320.4	296.4	285.3	281.8
80°	857.5	353.8	197.0	185.9	193.6	231.3	258.7	245.9	225.3	211.6	203.9
82.5°	332.4	177.3	138.8	121.6	132.8	167.0	187.6	183.3	169.6	138.8	130.2
85°	135.3	86.5	83.1	70.2	77.1	89.9	107.9	93.4	77.1	54.8	52.3
87.5°	36.0	31.7	30.8	18.8	14.6	4.3	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)