

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: P633541

Luminaire Tested: GWS-SA2E-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633541
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-SA2E-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11500 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

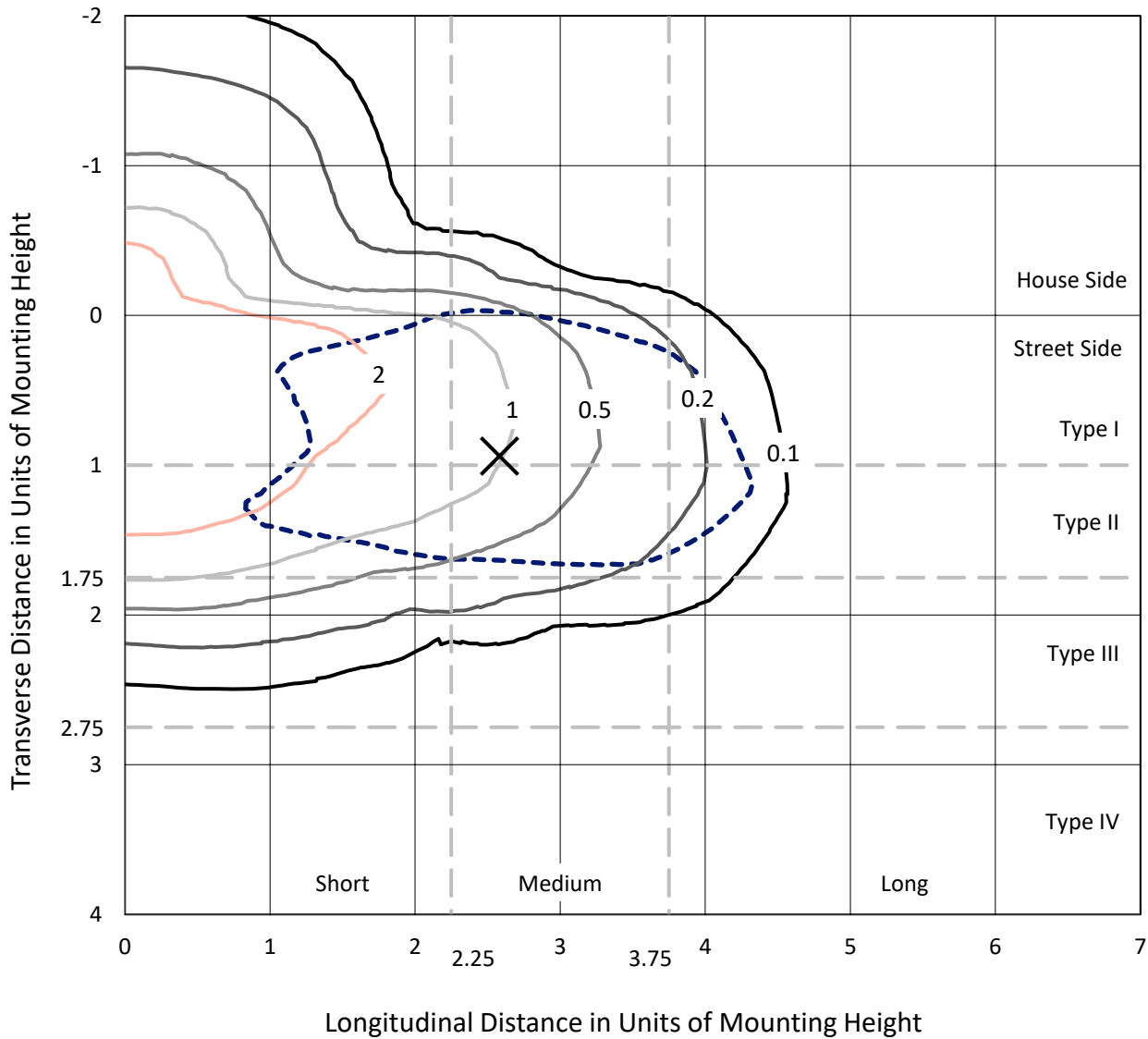
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

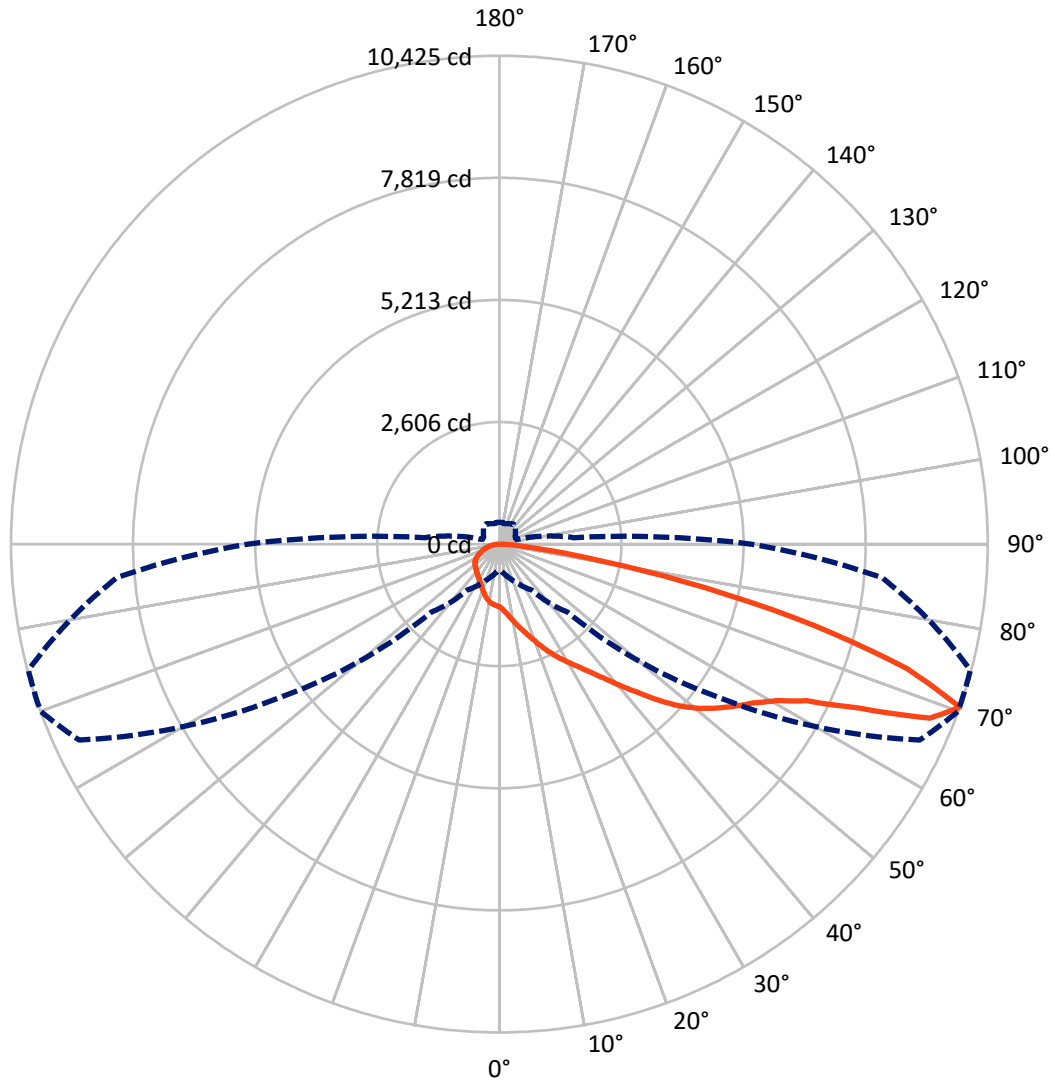
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	2060.8	0.0	2060.8
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	9439.2	0.0	9439.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	11500.0	0.0	11500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.2
10°-20°	443.4	3.9
20°-30°	785.5	6.8
30°-40°	1182.3	10.3
40°-50°	1788.6	15.6
50°-60°	2562.3	22.3
60°-70°	2832.3	24.6
70°-80°	1598.3	13.9
80°-90°	171.0	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°	11500.0	100.0
0°-180°	11500.0	100.0

Coefficient of Utilization



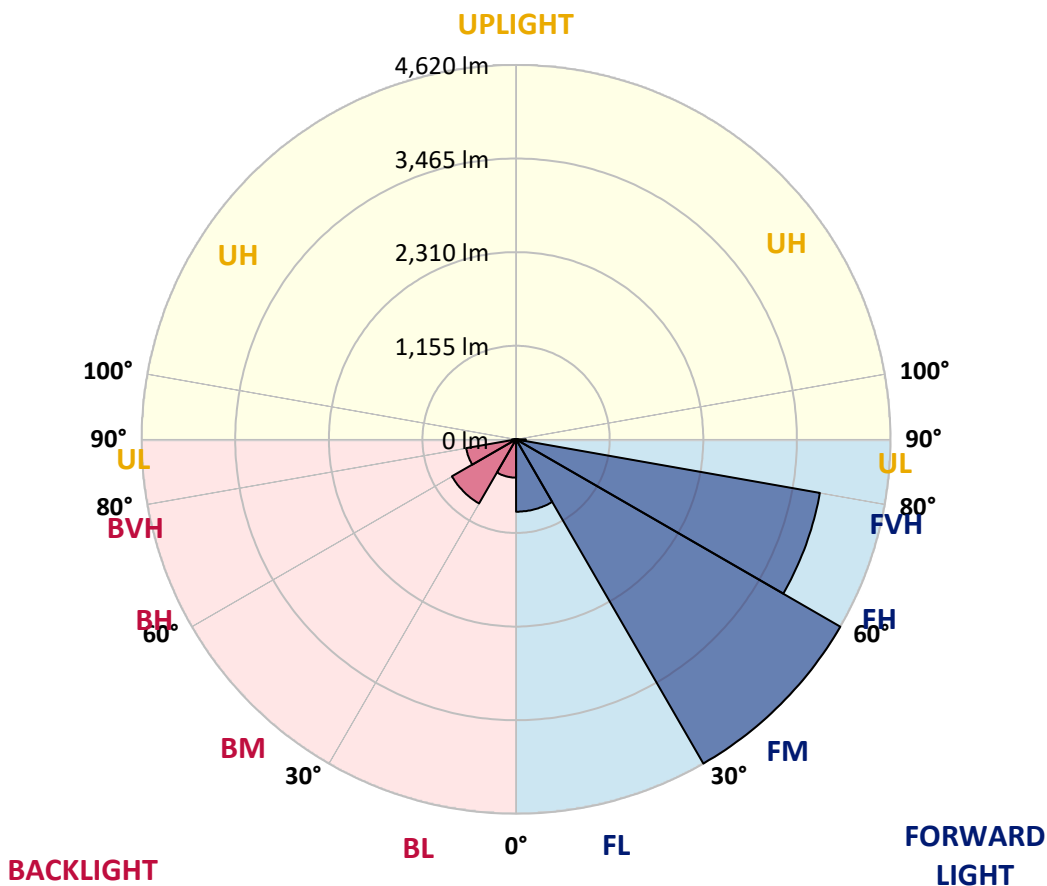
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.7	7.8			
FM (30°-60°)	4619.5	40.2			
FH (60°-80°)	3806.0	33.1			G2/5000
FVH (80°-90°)	120.9	1.1			G2/225
BL (0°-30°)	472.5	4.1	B1/500		
BM (30°-60°)	913.6	7.9	B1/1000		
BH (60°-80°)	624.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	50.1	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°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1
2.5°	1485.7	1483.2	1484.9	1483.2	1474.1	1451.7	1433.4	1410.1	1394.3	1385.2	1363.6
5°	1660.2	1657.7	1651.9	1643.6	1627.0	1596.2	1550.5	1499.8	1469.1	1445.8	1400.1
7.5°	1785.7	1785.7	1784.9	1774.9	1763.3	1730.8	1676.8	1610.4	1565.5	1525.6	1450.8
10°	1849.7	1853.8	1859.6	1873.8	1871.3	1853.8	1803.1	1731.7	1675.2	1628.6	1517.3
12.5°	1884.6	1887.1	1897.0	1926.1	1956.0	1960.2	1930.3	1855.5	1794.0	1731.7	1591.3
15°	1929.4	1930.3	1943.6	1978.5	2022.5	2066.5	2059.1	1984.3	1921.1	1852.2	1673.5
17.5°	1964.3	1970.2	1994.3	2035.0	2089.8	2150.5	2187.0	2140.5	2062.4	1983.5	1763.3
20°	1976.8	1981.0	2012.5	2074.9	2149.6	2235.2	2316.7	2304.2	2225.3	2132.2	1864.6
22.5°	2021.7	2021.7	2044.9	2097.3	2185.4	2310.0	2442.1	2474.5	2404.7	2295.9	1973.5
25°	2120.6	2117.2	2128.0	2149.6	2216.1	2369.8	2565.9	2663.2	2585.1	2462.9	2082.3
27.5°	2256.0	2254.3	2253.5	2256.8	2279.3	2422.2	2670.6	2839.3	2761.2	2623.3	2179.6
30°	2403.1	2398.1	2408.9	2398.9	2393.9	2484.5	2759.6	2997.2	2936.5	2782.0	2260.2
32.5°	2603.3	2594.2	2591.7	2559.3	2539.4	2581.7	2831.0	3176.7	3128.5	2953.2	2350.7
35°	2867.6	2859.3	2816.9	2765.4	2706.4	2726.3	2919.9	3352.0	3355.3	3167.5	2469.6
37.5°	3134.3	3136.0	3102.7	2981.4	2920.8	2909.1	3055.4	3565.6	3637.0	3423.5	2623.3
40°	3356.2	3366.1	3366.1	3238.2	3147.6	3136.8	3245.7	3819.0	3961.1	3737.6	2817.7
42.5°	3524.9	3534.0	3563.1	3470.8	3375.3	3412.7	3476.7	4073.3	4328.4	4125.6	3063.7
45°	3710.1	3717.6	3733.4	3680.2	3624.6	3724.3	3738.4	4377.4	4748.8	4561.0	3349.5
47.5°	3956.1	3949.5	3951.1	3912.1	3868.9	4030.1	4026.7	4633.3	5155.2	5038.0	3659.5
50°	4261.9	4274.4	4262.7	4185.4	4134.8	4281.8	4300.9	4916.7	5512.5	5510.0	3971.9
52.5°	4556.0	4561.0	4622.5	4625.8	4522.0	4491.2	4541.1	5202.5	5814.1	5942.1	4271.9
55°	4571.0	4590.1	4774.6	4907.5	5075.4	4828.6	4783.7	5475.1	6105.8	6365.0	4583.5
57.5°	4252.8	4283.5	4596.8	4883.4	5350.4	5407.8	5199.2	5827.4	6397.4	6781.3	4944.1
60°	3573.0	3637.0	4062.5	4501.2	5226.6	5824.1	6049.2	6306.0	6780.5	7206.7	5382.0
62.5°	2281.8	2306.7	2903.3	3637.9	4669.1	5783.3	6974.9	7149.4	7363.8	7761.0	6056.7
65°	1142.5	1222.3	1572.1	2171.2	3367.0	5096.2	7442.7	8694.1	8431.6	8709.9	7150.2
67.5°	775.3	801.0	978.0	1304.6	1974.3	3610.4	7152.7	9995.4	9918.1	9963.8	8316.1
70°	571.7	588.3	727.9	924.0	1194.1	2049.9	5694.4	9897.3	10425.0	10408.4	8193.9
72.5°	417.1	425.4	531.0	705.5	885.0	1060.3	3477.5	7995.3	9100.5	9579.9	7166.0
75°	303.3	313.3	368.9	527.6	688.0	661.4	1716.7	5775.0	6940.0	7862.4	5838.2
77.5°	226.0	238.5	264.2	330.7	481.9	473.6	742.0	3750.0	4488.7	5135.2	3546.5
80°	162.9	165.4	180.3	211.9	305.8	277.5	353.1	1955.2	2241.9	2456.3	1390.2
82.5°	98.9	101.4	120.5	130.5	189.5	174.5	183.6	633.2	907.4	963.1	519.3
85°	29.1	30.7	54.8	59.8	78.9	74.8	74.0	257.6	307.4	393.0	204.4
87.5°	0.0	0.0	0.0	0.0	0.8	5.0	9.1	45.7	69.0	95.6	49.9
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°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1
2.5°	1355.3	1336.2	1326.2	1308.7	1296.3	1283.8	1271.3	1259.7	1254.7	1247.2	1248.9
5°	1379.4	1349.4	1319.5	1285.5	1256.4	1232.3	1210.7	1191.6	1183.3	1175.8	1179.1
7.5°	1415.9	1371.1	1313.7	1251.4	1205.7	1172.5	1150.0	1136.7	1132.6	1126.8	1126.8
10°	1462.5	1395.1	1294.6	1205.7	1150.9	1124.3	1114.3	1113.5	1117.6	1118.4	1116.8
12.5°	1514.0	1418.4	1266.4	1151.7	1105.2	1096.8	1104.3	1118.4	1132.6	1140.1	1138.4
15°	1567.2	1433.4	1218.2	1100.2	1071.9	1082.7	1106.8	1135.1	1162.5	1176.6	1175.8
17.5°	1617.0	1436.7	1155.8	1050.3	1042.8	1070.3	1111.8	1155.8	1193.2	1213.2	1214.0
20°	1672.7	1430.9	1091.9	1005.4	1013.7	1058.6	1113.5	1166.6	1210.7	1230.6	1235.6
22.5°	1723.4	1410.9	1029.5	963.1	988.8	1044.5	1100.2	1150.0	1189.1	1208.2	1214.8
25°	1769.1	1372.7	961.4	927.3	969.7	1024.5	1066.9	1101.8	1129.2	1140.9	1150.0
27.5°	1794.0	1315.4	909.9	899.1	951.4	996.3	1019.6	1030.4	1039.5	1036.2	1042.8
30°	1799.0	1243.9	865.0	876.6	924.0	957.2	962.2	951.4	935.6	909.9	915.7
32.5°	1794.0	1161.7	827.6	852.5	893.3	913.2	906.6	878.3	840.1	800.2	802.7
35°	1795.7	1078.6	796.9	826.0	857.5	868.3	851.7	812.7	771.9	735.4	733.7
37.5°	1813.9	1008.8	771.1	800.2	822.6	824.3	806.0	765.3	744.5	717.1	713.8
40°	1864.6	957.2	747.8	774.4	788.6	787.7	767.0	737.9	752.0	742.9	740.4
42.5°	1947.7	925.7	728.7	747.0	757.0	758.6	742.0	723.7	754.5	742.9	738.7
45°	2081.5	924.0	715.4	719.6	735.4	747.0	735.4	714.6	726.2	669.7	658.9
47.5°	2240.2	952.3	705.5	695.5	722.9	743.7	725.4	692.2	668.1	616.6	609.1
50°	2431.3	1009.6	696.3	669.7	704.6	731.2	712.9	667.2	630.7	603.3	599.1
52.5°	2658.2	1085.2	684.7	640.7	677.2	724.6	712.9	664.8	616.6	591.6	587.5
55°	2895.8	1172.5	671.4	605.8	646.5	726.2	718.8	647.3	605.8	592.5	589.1
57.5°	3190.8	1277.2	647.3	565.0	619.1	711.3	695.5	637.3	598.3	587.5	584.2
60°	3573.9	1432.5	601.6	523.5	587.5	684.7	674.7	620.7	578.3	569.2	566.7
62.5°	4180.5	1695.9	545.9	483.6	550.1	629.0	644.0	589.1	553.4	552.6	551.7
65°	5169.3	2012.5	480.3	447.9	511.0	583.3	603.3	556.7	527.6	536.8	536.0
67.5°	5862.3	2040.0	426.3	410.5	465.3	533.5	562.5	523.5	491.9	509.4	508.5
70°	5369.5	1591.3	379.7	371.4	416.3	479.5	518.5	481.9	450.4	467.0	463.7
72.5°	4528.6	1219.8	335.7	330.7	366.4	422.9	462.0	440.4	407.2	407.2	399.7
75°	3639.5	1006.3	289.2	286.7	310.8	365.6	409.7	373.1	342.3	340.7	335.7
77.5°	2087.3	659.8	242.6	241.0	248.5	305.8	318.3	310.8	287.5	276.7	273.4
80°	831.8	343.2	191.1	180.3	187.8	224.4	250.9	238.5	218.5	205.2	197.8
82.5°	322.4	172.0	134.6	118.0	128.8	162.0	182.0	177.8	164.5	134.6	126.3
85°	131.3	83.9	80.6	68.1	74.8	87.2	104.7	90.6	74.8	53.2	50.7
87.5°	34.9	30.7	29.9	18.3	14.1	4.2	0.8	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)