

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: P636568

Luminaire Tested: GWS-SA4B-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9383.4 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 94.4
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

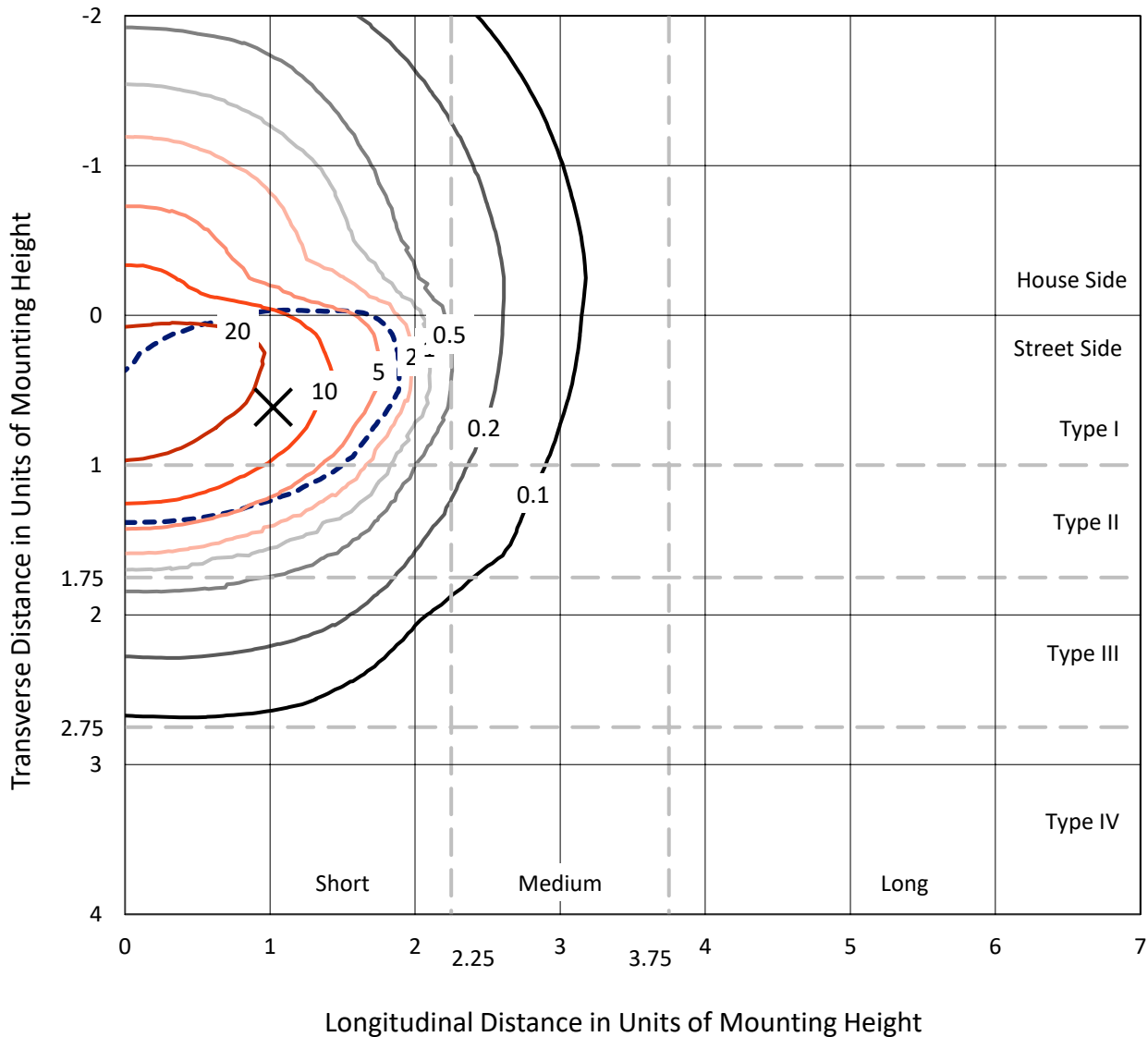


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Iso-Footcandle Lines of Horizontal Illumination

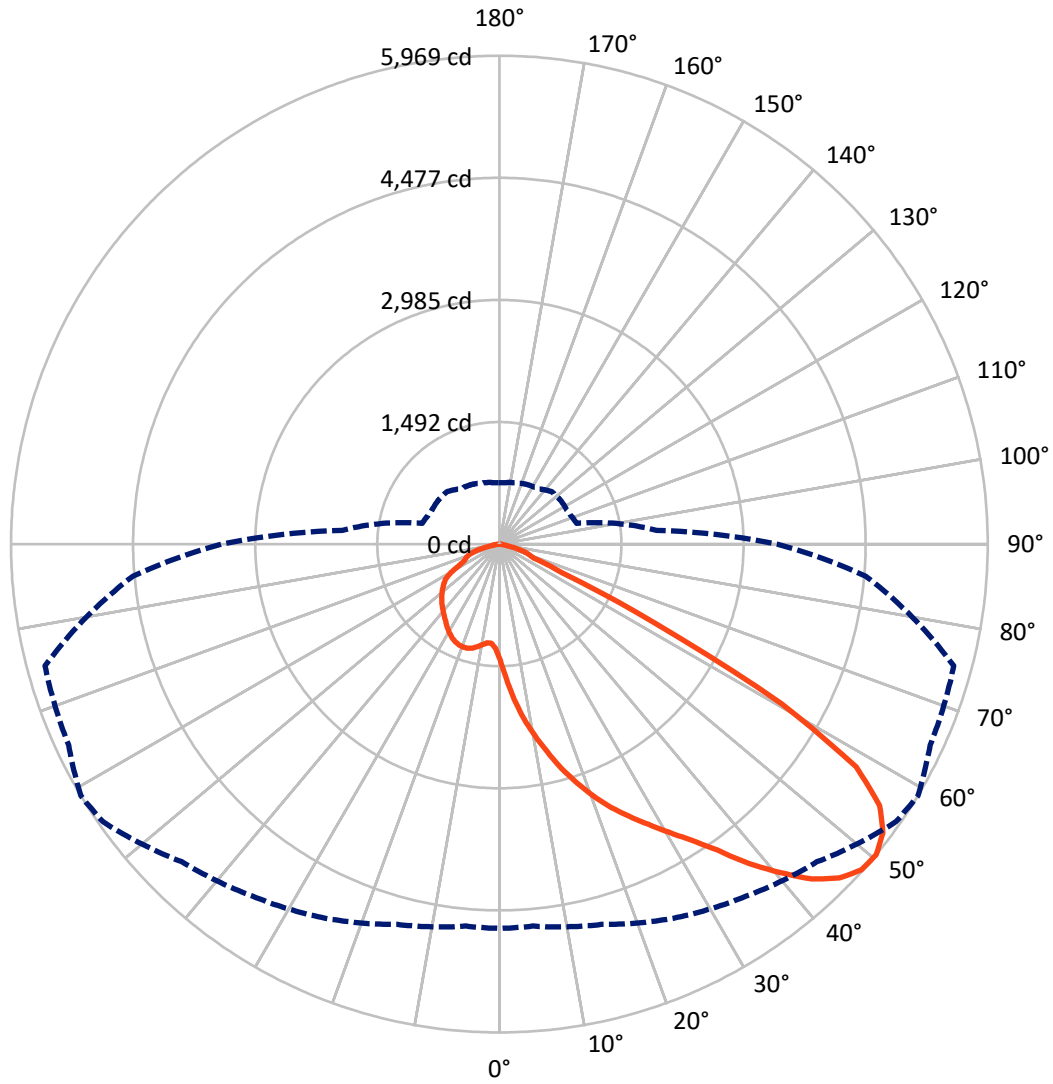
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2158.4	0.0	2158.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	7225.1	0.0	7225.1
	% Fixture	77.0	0.0	77.0
Total	Lumens	9383.4	0.0	9383.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	1.7
10°-20°	579.0	6.2
20°-30°	1096.3	11.7
30°-40°	1818.0	19.4
40°-50°	2483.5	26.5
50°-60°	2254.4	24.0
60°-70°	750.7	8.0
70°-80°	219.0	2.3
80°-90°	23.0	0.2
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°	9383.4	100.0
0°-180°	9383.4	100.0

Coefficient of Utilization



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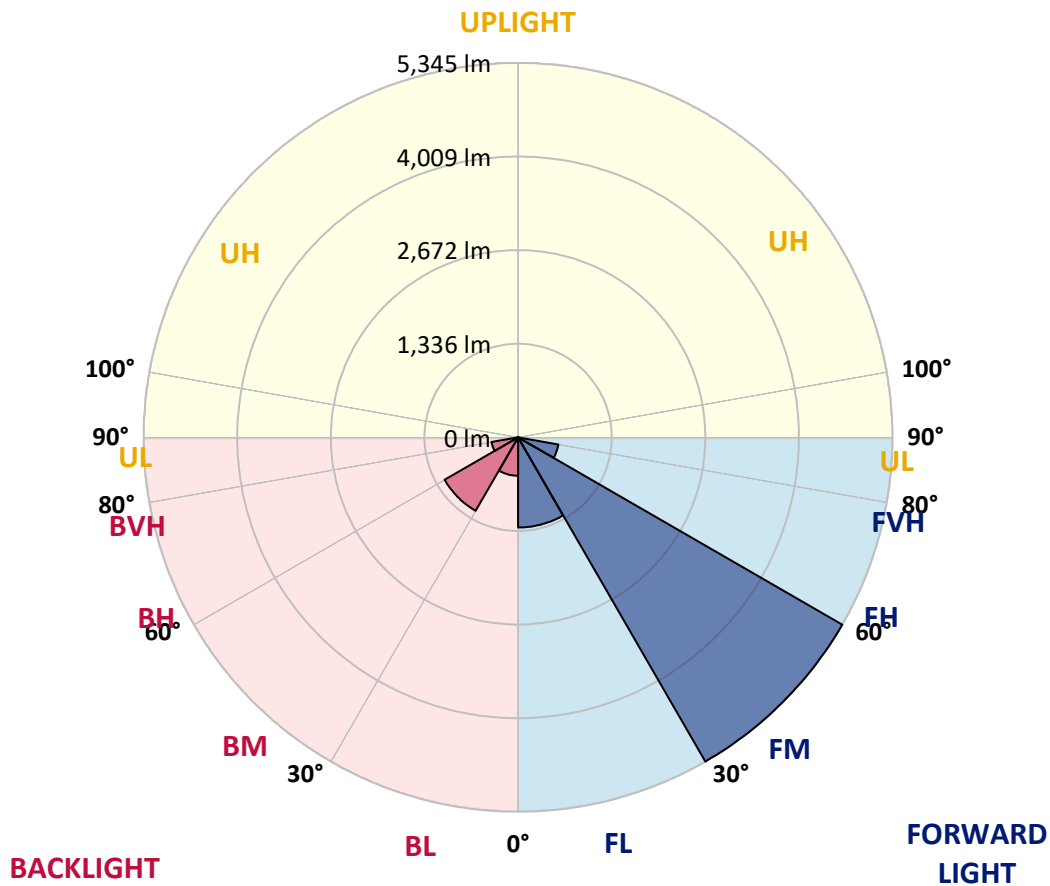
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.7	13.7			
FM (30°-60°)	5344.9	57.0			
FH (60°-80°)	584.5	6.2			G0/660
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	548.1	5.8	B2/1000		
BM (30°-60°)	1211.1	12.9	B2/2500		
BH (60°-80°)	385.2	4.1	B1/500		G1/500
BVH (80°-90°)	14.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7
2.5°	1842.0	1855.8	1834.4	1835.9	1782.4	1758.0	1689.2	1648.7	1621.9	1547.0	1479.0
5°	2213.5	2197.4	2180.6	2170.7	2124.1	2058.3	1972.7	1904.7	1842.0	1695.3	1553.9
7.5°	2441.3	2432.9	2421.4	2415.3	2369.4	2300.6	2215.0	2156.9	2066.0	1867.3	1644.8
10°	2634.6	2624.7	2617.8	2622.4	2585.0	2540.6	2447.4	2380.9	2278.5	2049.2	1754.9
12.5°	2784.4	2789.8	2792.1	2816.6	2800.5	2773.7	2677.4	2607.1	2493.2	2241.0	1884.1
15°	2902.9	2901.4	2928.1	2974.8	3000.8	2983.9	2906.7	2847.9	2708.8	2429.8	2023.2
17.5°	2930.4	2932.0	2974.0	3055.8	3140.6	3181.9	3138.3	3068.0	2930.4	2616.3	2167.6
20°	2952.6	2955.7	2999.2	3092.5	3216.3	3331.7	3338.6	3288.1	3169.7	2818.1	2314.4
22.5°	3092.5	3099.4	3110.8	3169.7	3281.3	3427.3	3507.5	3496.8	3397.4	3029.8	2472.6
25°	3460.1	3439.5	3383.7	3366.9	3409.7	3528.1	3665.0	3685.6	3636.7	3262.9	2643.0
27.5°	3914.1	3892.0	3809.4	3722.3	3629.8	3671.1	3817.1	3879.0	3879.7	3519.7	2814.3
30°	4326.1	4308.5	4241.3	4116.7	3956.9	3897.3	4005.1	4088.4	4138.1	3816.3	3009.2
32.5°	4678.5	4662.4	4571.5	4469.8	4313.9	4193.9	4232.9	4313.1	4429.3	4200.0	3251.5
35°	4975.0	4959.0	4871.8	4769.4	4625.0	4553.1	4539.3	4594.4	4745.0	4600.5	3529.7
37.5°	5215.8	5199.7	5108.8	5012.5	4902.4	4907.0	4927.6	4954.4	5040.7	5029.3	3827.0
40°	5371.7	5354.9	5289.9	5221.1	5151.6	5206.6	5309.0	5276.9	5322.8	5375.5	4100.6
42.5°	5441.3	5419.9	5382.4	5367.1	5345.7	5431.3	5628.5	5596.4	5541.4	5606.4	4303.9
45°	5371.7	5353.4	5352.6	5399.2	5448.9	5559.0	5849.4	5823.4	5684.3	5717.9	4425.5
47.5°	5158.5	5142.4	5186.0	5308.3	5430.6	5591.1	5948.0	5952.6	5786.0	5764.6	4504.2
50°	4697.6	4686.9	4813.0	5044.6	5255.5	5490.9	5916.7	5969.4	5810.4	5750.0	4494.3
52.5°	3760.5	3810.2	4084.6	4471.3	4881.0	5315.1	5800.5	5869.3	5692.7	5654.5	4440.7
55°	2574.3	2597.2	2871.6	3436.4	4086.1	4934.5	5533.7	5640.0	5553.6	5638.5	4496.5
57.5°	1333.0	1351.3	1567.6	2069.0	2771.5	3899.6	4793.1	5141.6	5273.1	5719.5	4670.0
60°	547.3	562.5	652.0	894.3	1398.0	2270.8	3449.4	3966.1	4274.9	5223.4	4147.2
62.5°	397.5	405.1	447.9	533.5	732.2	1112.9	1952.1	2142.4	2359.5	3273.6	2633.1
65°	334.8	343.2	377.6	429.6	534.3	682.5	833.9	838.5	924.1	1333.8	976.0
67.5°	280.5	288.2	318.7	363.1	431.8	484.6	447.9	448.7	447.1	483.8	467.8
70°	218.6	224.7	255.3	302.7	338.6	311.1	350.1	387.5	371.5	386.0	408.2
72.5°	159.7	166.6	193.4	229.3	220.1	221.7	283.6	321.8	312.6	328.7	349.3
75°	115.4	120.0	133.8	114.6	120.8	146.0	199.5	220.1	229.3	243.1	261.4
77.5°	37.5	37.5	42.0	52.7	65.7	81.0	101.7	110.1	123.8	139.1	152.1
80°	19.1	19.9	23.7	29.0	36.7	46.6	59.6	63.4	70.3	78.7	84.1
82.5°	9.2	9.9	11.5	14.5	19.1	24.5	32.9	36.7	41.3	46.6	50.4
85°	2.3	2.3	3.1	4.6	6.1	9.2	12.2	14.5	18.3	22.2	24.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.1	3.8	4.6	6.1
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°	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7
2.5°	1448.4	1405.6	1350.6	1303.9	1261.1	1228.3	1200.0	1186.2	1173.2	1164.1	1167.1
5°	1488.1	1414.8	1312.4	1241.3	1197.7	1175.5	1160.3	1152.6	1151.1	1145.0	1142.7
7.5°	1546.2	1441.5	1304.7	1232.9	1203.8	1192.4	1183.9	1179.4	1181.7	1175.5	1173.2
10°	1618.1	1485.9	1323.8	1260.4	1235.2	1226.7	1217.6	1211.5	1208.4	1199.2	1197.7
12.5°	1707.5	1540.9	1358.2	1295.5	1270.3	1255.8	1243.6	1232.9	1226.0	1214.5	1211.5
15°	1803.8	1602.0	1398.7	1329.9	1300.1	1278.7	1258.8	1242.8	1230.6	1215.3	1213.0
17.5°	1908.5	1666.2	1432.4	1353.6	1315.4	1287.1	1258.1	1234.4	1217.6	1197.7	1195.4
20°	2017.8	1731.2	1457.6	1365.1	1316.2	1278.0	1239.0	1207.6	1186.2	1166.4	1164.8
22.5°	2130.9	1790.8	1472.9	1362.0	1303.9	1256.6	1209.9	1174.8	1149.6	1125.9	1124.3
25°	2244.8	1848.1	1476.7	1349.8	1279.5	1224.5	1177.8	1136.6	1108.3	1081.5	1078.5
27.5°	2360.2	1896.3	1467.5	1325.3	1246.6	1187.0	1140.4	1099.9	1070.8	1044.1	1039.5
30°	2483.3	1937.6	1447.6	1293.2	1208.4	1147.3	1101.4	1070.8	1043.3	1016.6	1012.0
32.5°	2614.8	1973.5	1419.4	1254.3	1164.1	1107.5	1073.9	1046.4	1018.9	995.2	990.6
35°	2771.5	1997.2	1377.3	1203.8	1122.8	1078.5	1055.5	1023.4	989.8	963.8	961.5
37.5°	2933.5	2015.5	1326.9	1155.7	1086.9	1061.7	1042.5	999.0	956.9	925.6	921.8
40°	3090.2	2030.8	1264.2	1110.6	1054.0	1049.4	1023.4	969.2	896.6	861.4	858.3
42.5°	3236.2	2035.4	1198.5	1062.4	1024.2	1021.9	992.9	908.8	853.0	830.8	827.8
45°	3336.3	2031.6	1130.4	1017.3	994.4	982.2	951.6	865.2	830.8	811.0	807.1
47.5°	3410.4	2011.7	1054.0	969.9	960.8	943.9	878.2	837.7	805.6	785.7	781.9
50°	3397.4	1929.2	976.8	924.1	920.3	905.7	824.7	803.3	775.0	753.6	750.6
52.5°	3330.2	1772.5	898.1	873.6	881.3	853.0	786.5	762.0	737.6	713.1	707.8
55°	3347.0	1659.4	838.5	824.7	838.5	774.3	743.7	717.7	694.8	671.1	666.5
57.5°	3420.4	1547.8	775.0	772.0	786.5	713.9	688.7	655.8	622.9	603.8	603.8
60°	2872.3	1128.1	663.4	671.1	703.9	665.0	642.8	609.2	573.2	556.4	556.4
62.5°	1698.3	707.8	550.3	541.9	562.5	587.0	599.2	571.7	528.9	506.7	507.5
65°	748.3	515.2	485.3	478.5	472.4	489.2	522.8	525.1	480.0	454.0	454.8
67.5°	460.9	466.2	454.0	448.7	443.3	440.3	437.2	438.7	426.5	402.8	402.0
70°	415.8	430.3	421.9	417.3	410.4	405.1	386.8	356.9	336.3	330.2	337.1
72.5°	357.7	377.6	373.0	370.7	362.3	349.3	324.8	295.8	271.3	256.1	259.1
75°	269.8	285.9	288.2	288.9	279.7	267.5	242.3	217.8	196.4	180.4	184.2
77.5°	155.2	164.3	166.6	168.9	162.0	157.5	140.6	123.1	111.6	94.8	99.4
80°	86.4	90.2	90.2	91.0	87.1	81.8	70.3	60.4	55.0	47.4	48.2
82.5°	52.0	53.5	54.3	55.0	52.7	47.4	39.0	32.1	29.0	25.2	24.5
85°	25.2	26.8	26.8	27.5	23.7	20.6	16.1	12.2	10.7	7.6	8.4
87.5°	6.1	6.9	6.9	6.1	5.4	3.8	2.3	0.8	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)