

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: P632773

Luminaire Tested: GWS-SA2D-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632773
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-SA2D-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10135.3 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

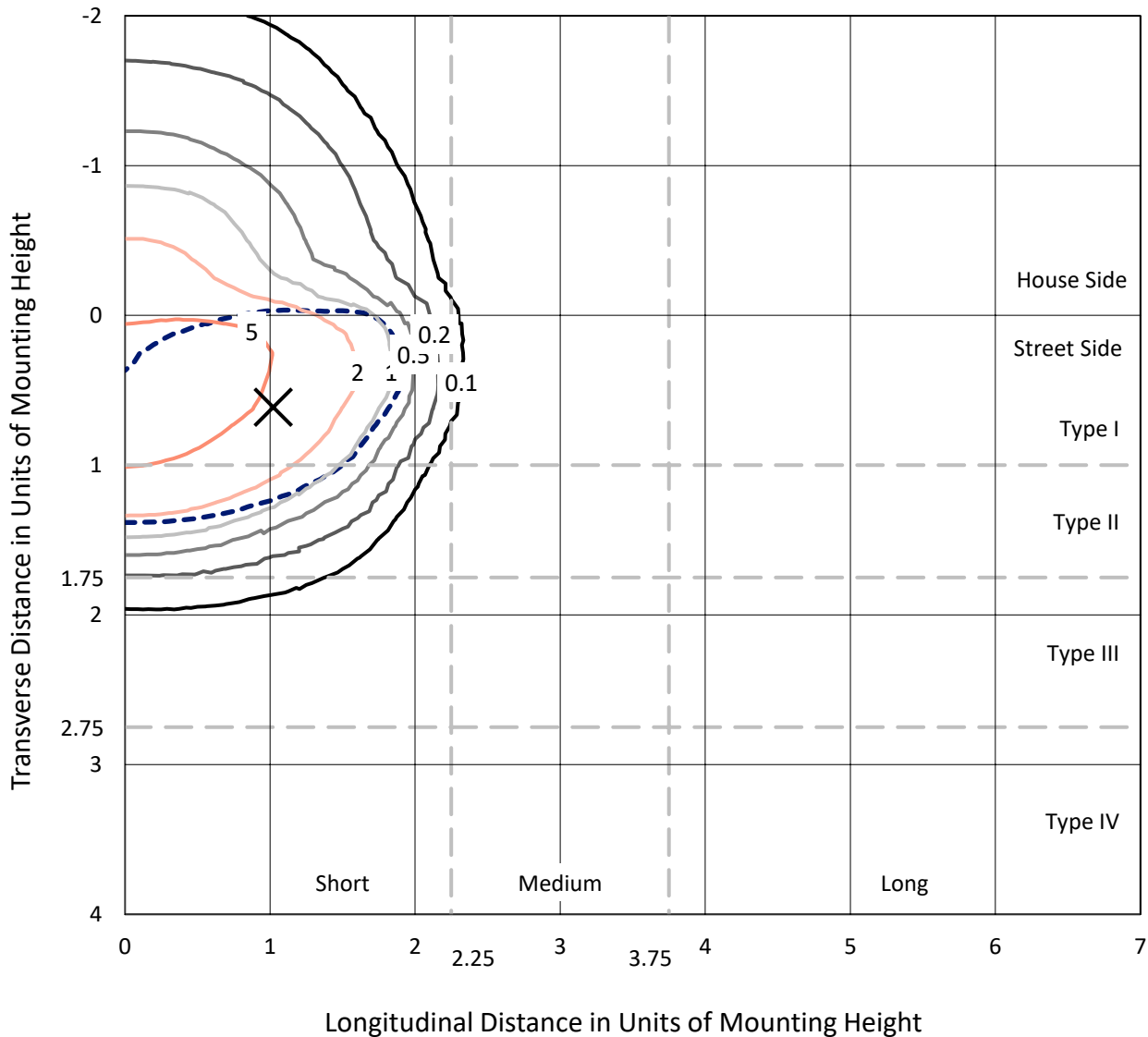
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P632773
 CATALOG NUMBER: GWS-SA2D-735-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

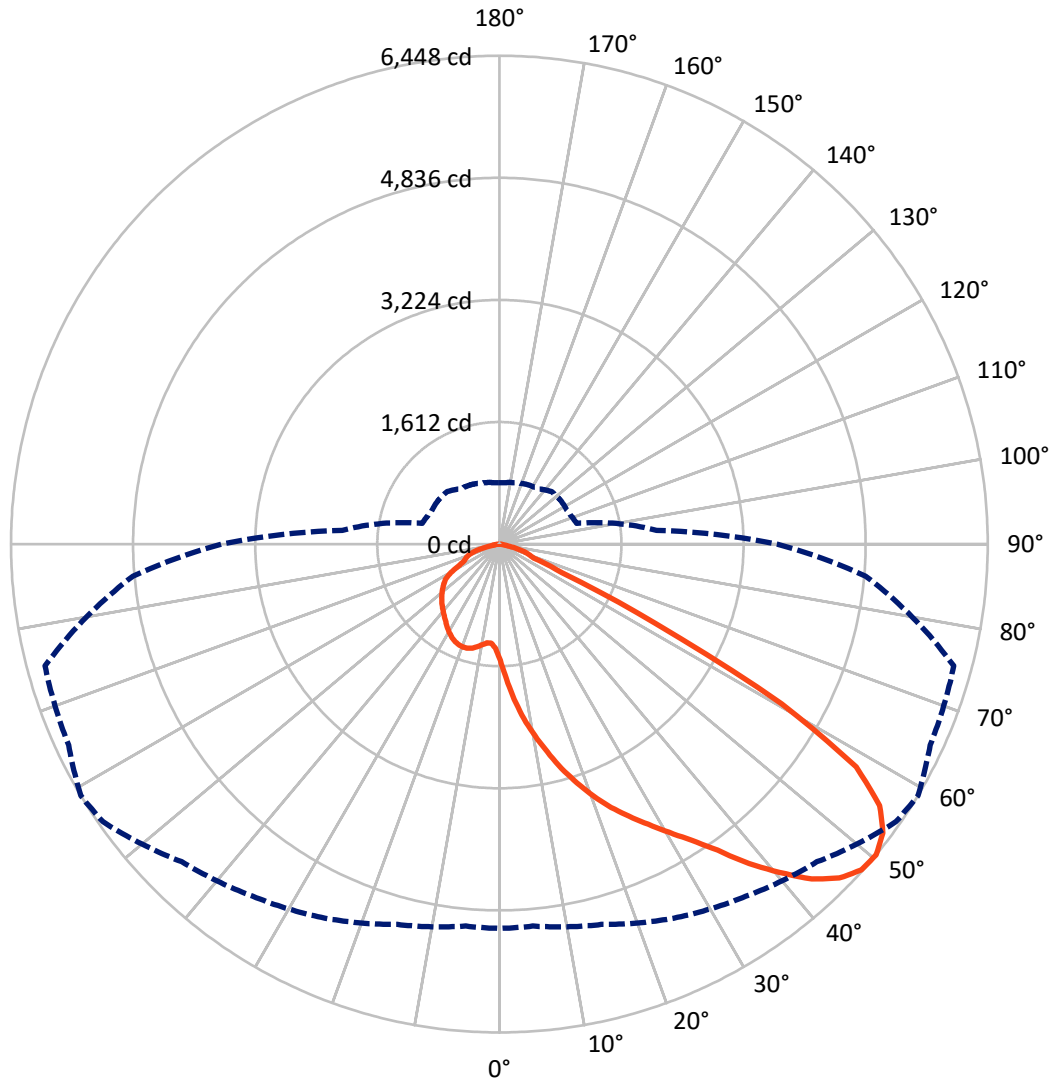
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

REPORT NUMBER: P632773
CATALOG NUMBER: GWS-SA2D-735-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P632773

CATALOG NUMBER: GWS-SA2D-735-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2331.3	0.0	2331.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	7804.0	0.0	7804.0
	% Fixture	77.0	0.0	77.0
Total	Lumens	10135.3	0.0	10135.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	1.7
10°-20°	625.4	6.2
20°-30°	1184.2	11.7
30°-40°	1963.7	19.4
40°-50°	2682.5	26.5
50°-60°	2435.0	24.0
60°-70°	810.9	8.0
70°-80°	236.5	2.3
80°-90°	24.8	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°	10135.3	100.0
0°-180°	10135.3	100.0

Coefficient of Utilization



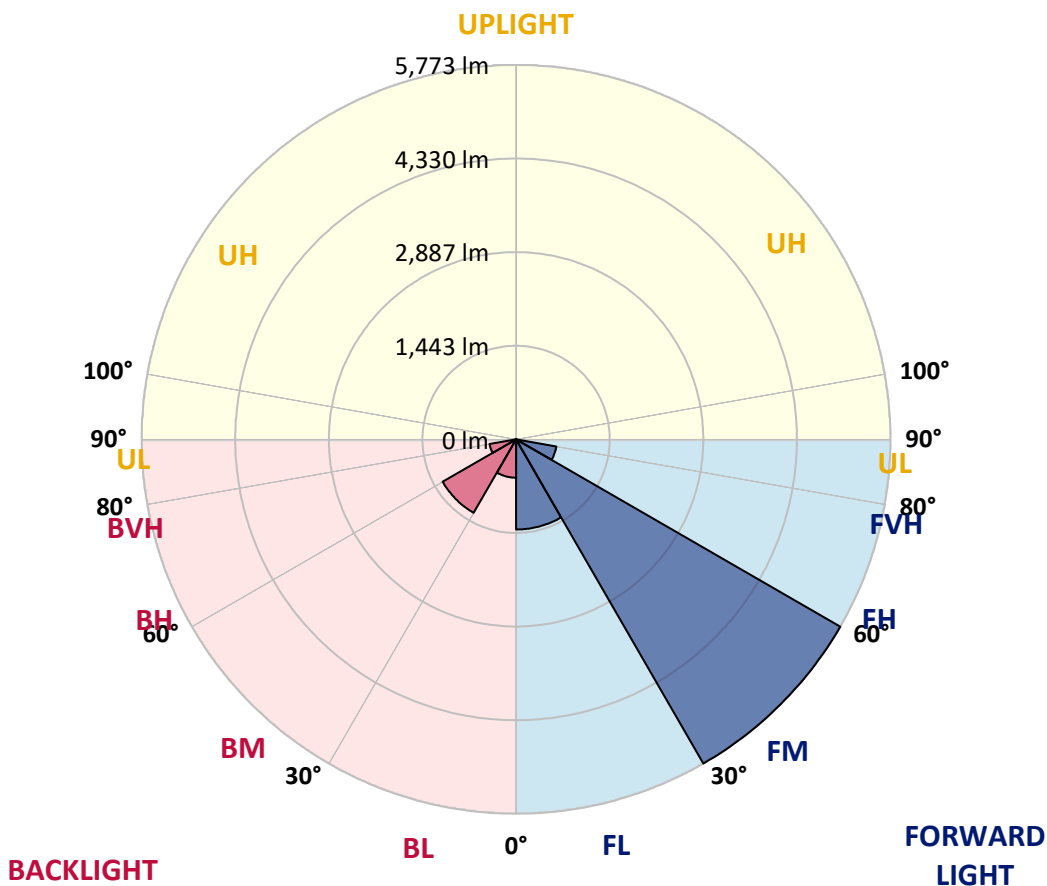
REPORT NUMBER: P632773

CATALOG NUMBER: GWS-SA2D-735-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.8	13.7			
FM (30°-60°)	5773.2	57.0			
FH (60°-80°)	631.3	6.2			G0/660
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	592.0	5.8	B2/1000		
BM (30°-60°)	1308.1	12.9	B2/2500		
BH (60°-80°)	416.1	4.1	B1/500		G1/500
BVH (80°-90°)	15.1	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





REPORT NUMBER: P632773

CATALOG NUMBER: GWS-SA2D-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6
2.5°	1989.6	2004.5	1981.4	1983.0	1925.2	1898.8	1824.5	1780.8	1751.9	1671.0	1597.5
5°	2390.9	2373.5	2355.4	2344.6	2294.3	2223.3	2130.8	2057.3	1989.6	1831.1	1678.4
7.5°	2636.9	2627.8	2615.4	2608.8	2559.3	2485.0	2392.5	2329.8	2231.5	2016.9	1776.6
10°	2845.8	2835.0	2827.6	2832.5	2792.1	2744.2	2643.5	2571.7	2461.0	2213.4	1895.5
12.5°	3007.6	3013.3	3015.8	3042.2	3024.9	2996.0	2892.0	2816.0	2693.0	2420.6	2035.0
15°	3135.5	3133.9	3162.8	3213.1	3241.2	3223.0	3139.7	3076.1	2925.8	2624.5	2185.3
17.5°	3165.3	3166.9	3212.3	3300.6	3392.3	3436.9	3389.8	3313.9	3165.3	2825.9	2341.3
20°	3189.2	3192.5	3239.6	3340.3	3474.0	3598.7	3606.1	3551.6	3423.7	3043.9	2499.8
22.5°	3340.3	3347.7	3360.1	3423.7	3544.2	3701.9	3788.6	3777.0	3669.7	3272.6	2670.7
25°	3737.4	3715.1	3654.8	3636.7	3682.9	3810.9	3958.6	3980.9	3928.1	3524.4	2854.8
27.5°	4227.8	4203.8	4114.7	4020.6	3920.7	3965.2	4122.9	4189.8	4190.6	3801.8	3039.8
30°	4672.8	4653.8	4581.1	4446.5	4274.0	4209.6	4326.0	4416.0	4469.7	4122.1	3250.3
32.5°	5053.3	5036.0	4937.8	4828.0	4659.5	4529.9	4572.0	4658.7	4784.2	4536.5	3512.0
35°	5373.7	5356.3	5262.2	5151.6	4995.6	4918.0	4903.1	4962.5	5125.2	4969.1	3812.5
37.5°	5633.7	5616.4	5518.1	5414.1	5295.2	5300.2	5322.5	5351.4	5444.7	5432.3	4133.7
40°	5802.1	5784.0	5713.8	5639.5	5564.4	5623.8	5734.4	5699.8	5749.3	5806.3	4429.2
42.5°	5877.3	5854.2	5813.7	5797.2	5774.1	5866.5	6079.5	6044.9	5985.4	6055.6	4648.8
45°	5802.1	5782.3	5781.5	5831.9	5885.5	6004.4	6318.1	6290.1	6139.8	6176.1	4780.1
47.5°	5571.8	5554.5	5601.5	5733.6	5865.7	6039.1	6424.6	6429.6	6249.6	6226.5	4865.1
50°	5074.0	5062.4	5198.6	5448.8	5676.7	5930.9	6390.8	6447.7	6276.0	6210.8	4854.4
52.5°	4061.8	4115.5	4411.9	4829.6	5272.1	5741.0	6265.3	6339.6	6148.9	6107.6	4796.6
55°	2780.5	2805.3	3101.7	3711.8	4413.5	5329.9	5977.2	6091.9	5998.6	6090.3	4856.9
57.5°	1439.8	1459.6	1693.3	2234.8	2993.5	4212.1	5177.2	5553.6	5695.6	6177.8	5044.3
60°	591.1	607.6	704.2	965.9	1510.0	2452.8	3725.8	4283.9	4617.4	5642.0	4479.6
62.5°	429.3	437.6	483.8	576.3	790.9	1202.0	2108.5	2314.1	2548.6	3535.9	2844.1
65°	361.6	370.7	407.8	464.0	577.1	737.2	900.7	905.7	998.1	1440.6	1054.3
67.5°	303.0	311.2	344.3	392.1	466.4	523.4	483.8	484.6	483.0	522.6	505.3
70°	236.1	242.7	275.7	326.9	365.7	336.0	378.1	418.6	401.2	416.9	440.9
72.5°	172.5	180.0	208.9	247.7	237.8	239.4	306.3	347.6	337.7	355.0	377.3
75°	124.7	129.6	144.5	123.8	130.4	157.7	215.5	237.8	247.7	262.5	282.3
77.5°	40.5	40.5	45.4	57.0	71.0	87.5	109.8	118.9	133.7	150.3	164.3
80°	20.6	21.5	25.6	31.4	39.6	50.4	64.4	68.5	76.0	85.0	90.8
82.5°	9.9	10.7	12.4	15.7	20.6	26.4	35.5	39.6	44.6	50.4	54.5
85°	2.5	2.5	3.3	5.0	6.6	9.9	13.2	15.7	19.8	23.9	26.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.5	3.3	4.1	5.0	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632773

CATALOG NUMBER: GWS-SA2D-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6	1535.6
2.5°	1564.5	1518.2	1458.8	1408.4	1362.2	1326.7	1296.2	1281.3	1267.3	1257.4	1260.7
5°	1607.4	1528.1	1417.5	1340.7	1293.7	1269.7	1253.2	1245.0	1243.3	1236.7	1234.2
7.5°	1670.1	1557.0	1409.3	1331.7	1300.3	1287.9	1278.8	1273.9	1276.3	1269.7	1267.3
10°	1747.7	1604.9	1429.9	1361.4	1334.1	1325.0	1315.1	1308.5	1305.2	1295.3	1293.7
12.5°	1844.3	1664.4	1467.0	1399.3	1372.1	1356.4	1343.2	1331.7	1324.2	1311.8	1308.5
15°	1948.4	1730.4	1510.8	1436.5	1404.3	1381.2	1359.7	1342.4	1329.2	1312.7	1310.2
17.5°	2061.5	1799.8	1547.1	1462.1	1420.8	1390.3	1358.9	1333.3	1315.1	1293.7	1291.2
20°	2179.5	1869.9	1574.4	1474.5	1421.6	1380.4	1338.3	1304.4	1281.3	1259.8	1258.2
22.5°	2301.7	1934.3	1590.9	1471.2	1408.4	1357.2	1306.9	1268.9	1241.7	1216.1	1214.4
25°	2424.7	1996.2	1595.0	1458.0	1382.0	1322.6	1272.2	1227.6	1197.1	1168.2	1164.9
27.5°	2549.4	2048.3	1585.1	1431.5	1346.5	1282.1	1231.8	1188.0	1156.6	1127.7	1122.8
30°	2682.3	2092.8	1563.6	1396.9	1305.2	1239.2	1189.7	1156.6	1126.9	1098.0	1093.1
32.5°	2824.3	2131.6	1533.1	1354.8	1257.4	1196.3	1159.9	1130.2	1100.5	1074.9	1069.9
35°	2993.5	2157.2	1487.7	1300.3	1212.8	1164.9	1140.1	1105.4	1069.1	1041.1	1038.6
37.5°	3168.6	2177.0	1433.2	1248.3	1174.0	1146.7	1126.1	1079.0	1033.6	999.8	995.6
40°	3337.8	2193.6	1365.5	1199.6	1138.5	1133.5	1105.4	1046.8	968.4	930.4	927.1
42.5°	3495.5	2198.5	1294.5	1147.5	1106.3	1103.8	1072.4	981.6	921.3	897.4	894.1
45°	3603.6	2194.4	1221.0	1098.8	1074.1	1060.9	1027.8	934.6	897.4	875.9	871.8
47.5°	3683.7	2172.9	1138.5	1047.7	1037.7	1019.6	948.6	904.8	870.2	848.7	844.6
50°	3669.7	2083.8	1055.1	998.1	994.0	978.3	890.8	867.7	837.1	814.0	810.7
52.5°	3597.0	1914.5	970.1	943.6	951.9	921.3	849.5	823.1	796.7	770.3	764.5
55°	3615.2	1792.3	905.7	890.8	905.7	836.3	803.3	775.2	750.4	724.9	719.9
57.5°	3694.4	1671.8	837.1	833.8	849.5	771.1	743.8	708.3	672.8	652.2	652.2
60°	3102.5	1218.5	716.6	724.9	760.4	718.3	694.3	658.0	619.2	601.0	601.0
62.5°	1834.4	764.5	594.4	585.3	607.6	634.0	647.3	617.5	571.3	547.4	548.2
65°	808.2	556.4	524.2	516.8	510.2	528.4	564.7	567.2	518.5	490.4	491.2
67.5°	497.8	503.6	490.4	484.6	478.8	475.5	472.2	473.9	460.7	435.1	434.3
70°	449.1	464.8	455.7	450.8	443.3	437.6	417.7	385.5	363.3	356.6	364.1
72.5°	386.4	407.8	402.9	400.4	391.3	377.3	350.9	319.5	293.1	276.6	279.9
75°	291.4	308.8	311.2	312.1	302.2	289.0	261.7	235.3	212.2	194.8	199.0
77.5°	167.6	177.5	180.0	182.5	175.0	170.1	151.9	132.9	120.5	102.4	107.3
80°	93.3	97.4	97.4	98.2	94.1	88.3	76.0	65.2	59.4	51.2	52.0
82.5°	56.1	57.8	58.6	59.4	57.0	51.2	42.1	34.7	31.4	27.2	26.4
85°	27.2	28.9	28.9	29.7	25.6	22.3	17.3	13.2	11.6	8.3	9.1
87.5°	6.6	7.4	7.4	6.6	5.8	4.1	2.5	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)