

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: P637253

Luminaire Tested: GWS-SA4C-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17610.2 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

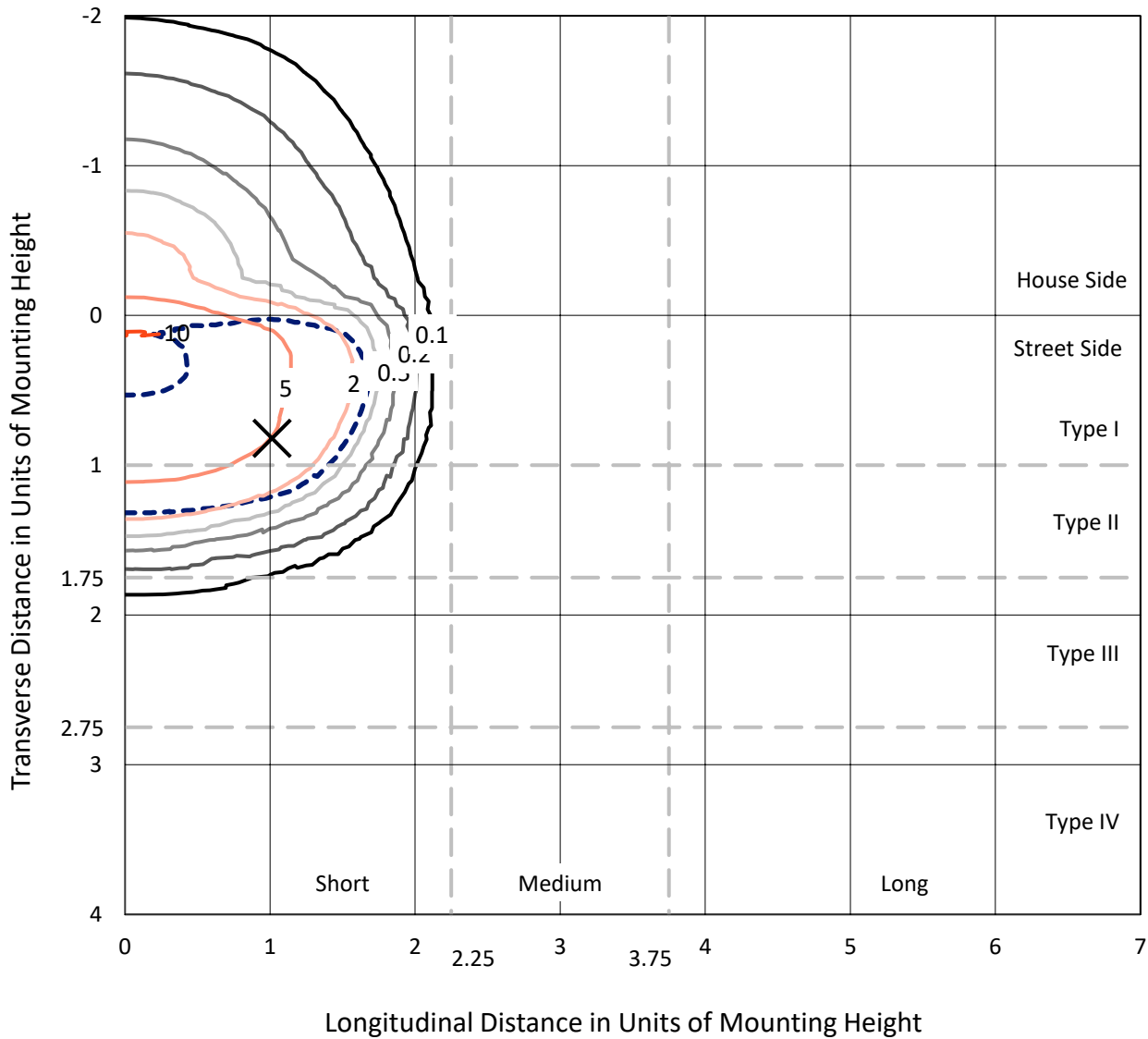
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

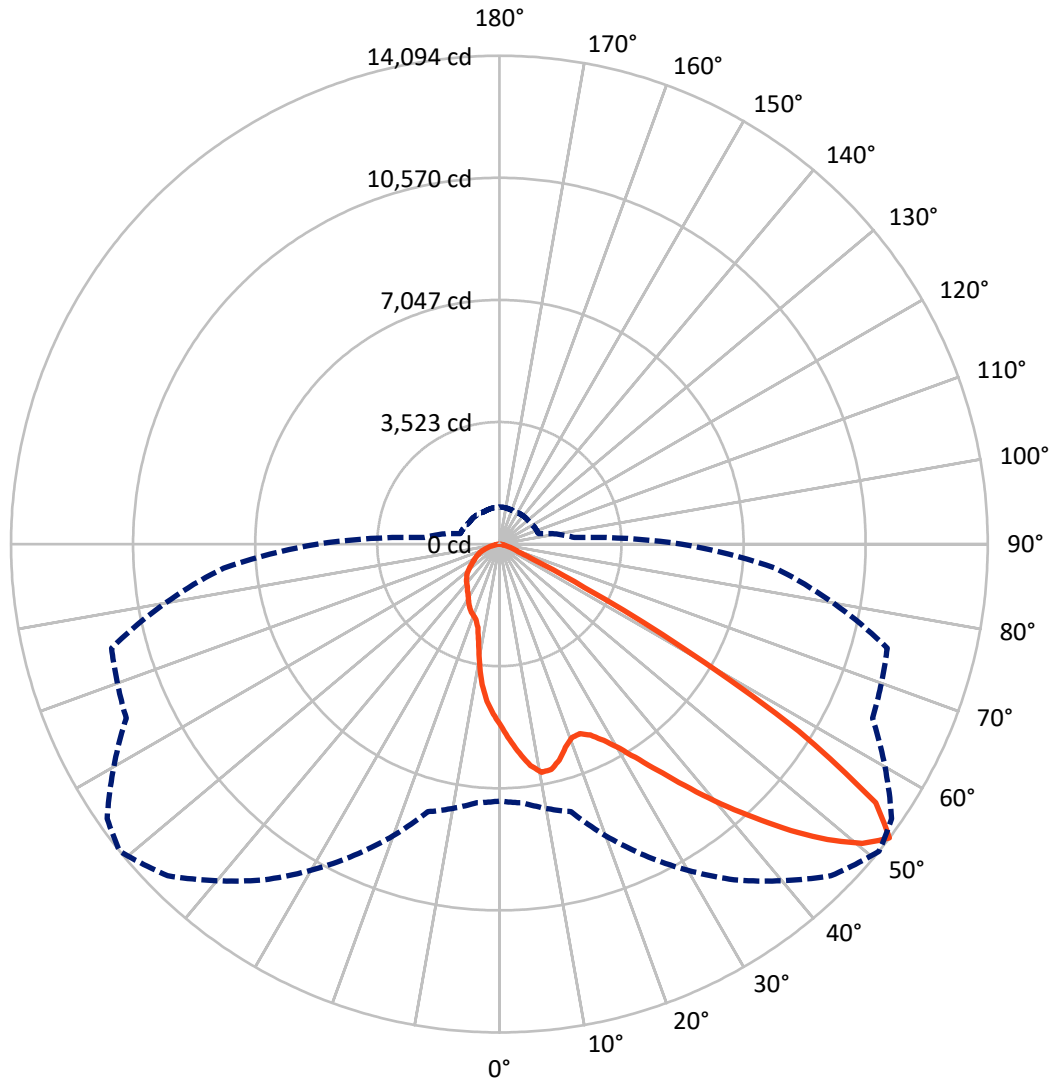
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3431.2	0.0	3431.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	14179.0	0.0	14179.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	17610.2	0.0	17610.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.3	2.8
10°-20°	1271.4	7.2
20°-30°	2067.1	11.7
30°-40°	3275.9	18.6
40°-50°	4940.8	28.1
50°-60°	4274.2	24.3
60°-70°	969.0	5.5
70°-80°	285.7	1.6
80°-90°	36.8	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°	17610.2	100.0
0°-180°	17610.2	100.0

Coefficient of Utilization



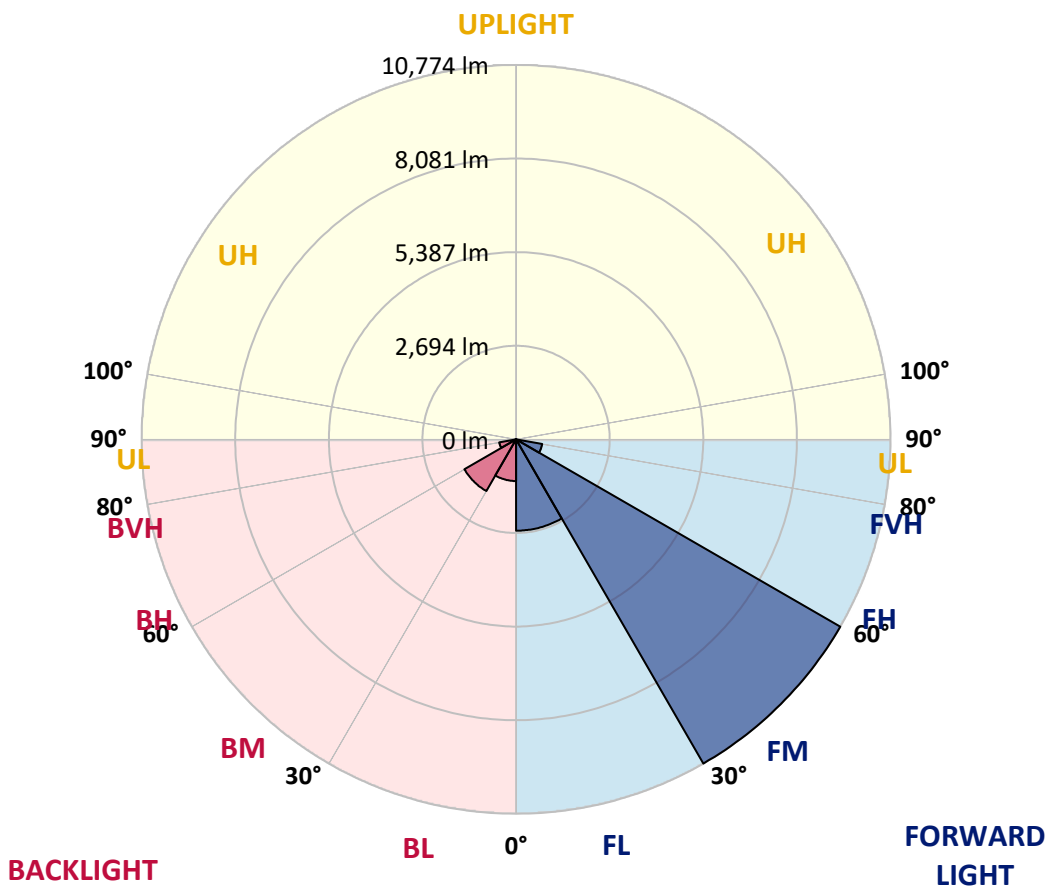
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2628.4	14.9			
FM (30°-60°)	10774.2	61.2			
FH (60°-80°)	762.6	4.3			G1/1800
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	1199.4	6.8	B3/2500		
BM (30°-60°)	1716.7	9.7	B2/2500		
BH (60°-80°)	492.1	2.8	B1/500		G1/500
BVH (80°-90°)	22.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4
2.5°	5843.2	5876.6	5825.1	5805.6	5773.6	5718.0	5653.9	5635.9	5498.1	5407.6	5306.1
5°	6430.4	6448.5	6406.8	6365.0	6285.7	6186.9	6063.1	6036.6	5786.1	5578.8	5363.1
7.5°	6561.3	6554.3	6590.5	6614.1	6604.4	6565.4	6455.5	6404.0	6104.8	5776.4	5457.7
10°	6043.6	6004.6	6138.2	6296.9	6487.5	6707.4	6694.8	6690.7	6430.4	6042.2	5578.8
12.5°	5357.5	5338.1	5446.6	5645.6	6006.0	6493.1	6675.4	6817.3	6724.1	6295.5	5713.8
15°	4965.1	4958.2	5031.9	5175.2	5461.9	6077.0	6466.6	6747.7	6975.9	6566.8	5857.1
17.5°	4894.2	4898.3	4923.4	5005.5	5211.4	5718.0	6168.8	6561.3	7172.2	6864.6	6036.6
20°	5101.5	5129.3	5086.2	5098.7	5210.0	5588.5	5965.7	6373.4	7297.4	7163.8	6230.1
22.5°	5562.1	5552.4	5457.7	5402.1	5403.5	5667.9	5943.4	6285.7	7379.5	7454.6	6405.4
25°	6083.9	6072.8	5960.1	5836.2	5758.3	5883.6	6103.4	6379.0	7453.2	7720.4	6545.9
27.5°	6700.4	6665.6	6540.4	6381.7	6209.2	6263.5	6412.4	6630.8	7567.4	7982.0	6639.2
30°	7297.4	7337.7	7158.2	6970.4	6788.1	6754.7	6841.0	7038.6	7799.7	8288.2	6750.5
32.5°	8089.2	8075.3	7876.3	7631.4	7371.1	7346.1	7414.3	7595.2	8217.2	8711.2	6920.3
35°	9048.0	9050.8	8768.3	8437.1	8066.9	8000.1	8114.2	8289.6	8839.3	9284.6	7188.8
37.5°	10044.4	10040.2	9793.9	9418.1	8913.0	8818.4	8949.2	9080.0	9617.1	10065.2	7606.3
40°	10742.9	10770.8	10655.3	10457.6	9978.9	9747.9	9863.4	9953.9	10463.2	10983.7	8156.0
42.5°	11139.5	11181.3	11206.3	11324.6	11072.7	10826.4	10784.7	10832.0	11218.8	11836.7	8672.3
45°	11224.4	11280.1	11462.4	11900.7	11998.1	11928.5	11792.2	11678.1	11782.4	12442.0	9010.4
47.5°	10850.1	10947.5	11337.1	12103.9	12673.0	12891.5	12739.8	12565.9	12108.0	12597.9	8975.6
50°	9366.7	9480.8	10358.8	11689.2	12769.0	13565.0	13578.9	13321.5	12069.1	12148.4	8538.7
52.5°	7415.7	7493.6	7996.0	9909.4	11827.0	13537.2	14093.8	13818.3	11881.2	11586.2	7991.8
55°	4432.1	4557.4	5026.4	6537.6	9213.6	11998.1	13183.7	13317.3	11789.4	11114.5	7618.8
57.5°	1495.9	1557.2	2005.3	2887.5	5429.9	8785.0	10186.3	10729.0	10702.6	10393.6	6891.1
60°	712.5	726.4	816.9	1095.2	2173.6	4590.8	6029.7	6655.9	7226.4	7283.5	4287.4
62.5°	542.7	551.1	597.0	656.8	873.9	1934.3	2763.7	3242.4	3463.6	2972.4	1561.3
65°	453.7	460.6	495.4	533.0	594.2	837.7	1060.4	1223.2	1102.1	858.6	744.5
67.5°	378.5	384.1	410.5	450.9	492.6	560.8	588.6	605.3	634.6	712.5	684.7
70°	296.4	302.0	329.8	364.6	404.9	421.6	448.1	464.8	523.2	623.4	620.6
72.5°	228.2	235.2	250.5	272.7	306.1	322.8	352.1	371.5	404.9	485.7	519.1
75°	167.0	171.2	185.1	192.0	196.2	192.0	221.3	243.5	288.1	318.7	327.0
77.5°	68.2	76.5	73.8	73.8	87.7	105.8	121.1	135.0	165.6	183.7	185.1
80°	27.8	30.6	36.2	40.4	48.7	62.6	72.4	77.9	91.8	103.0	111.3
82.5°	16.7	18.1	20.9	22.3	27.8	36.2	41.7	45.9	57.1	68.2	72.4
85°	8.3	8.3	9.7	11.1	13.9	16.7	19.5	22.3	29.2	36.2	40.4
87.5°	1.4	1.4	1.4	2.8	4.2	5.6	7.0	8.3	9.7	11.1	13.9
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°	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4	5243.4
2.5°	5246.2	5171.1	5083.4	5013.8	4933.1	4873.3	4788.4	4735.5	4685.4	4643.7	4613.1
5°	5251.8	5125.2	4942.9	4781.4	4614.4	4455.8	4293.0	4160.8	4042.5	3943.7	3935.4
7.5°	5283.8	5101.5	4816.2	4533.7	4208.1	3893.6	3579.1	3323.1	3128.2	3026.7	3005.8
10°	5338.1	5098.7	4686.8	4235.9	3680.7	3174.2	2801.2	2606.4	2493.7	2453.3	2439.4
12.5°	5395.1	5091.8	4521.2	3815.7	3044.8	2600.8	2396.3	2372.6	2393.5	2396.3	2394.9
15°	5464.7	5087.6	4312.5	3323.1	2580.0	2335.1	2349.0	2399.1	2447.8	2458.9	2458.9
17.5°	5549.6	5077.8	4028.6	2841.6	2289.1	2283.6	2357.3	2424.1	2470.0	2478.4	2478.4
20°	5638.6	5052.8	3679.3	2449.2	2170.8	2251.6	2330.9	2382.4	2414.4	2425.5	2426.9
22.5°	5699.9	4986.0	3277.1	2158.3	2097.1	2190.3	2247.4	2300.3	2300.3	2272.4	2264.1
25°	5712.4	4842.7	2841.6	1959.3	2009.4	2095.7	2154.2	2123.5	2066.5	2044.2	2042.8
27.5°	5666.5	4633.9	2411.6	1817.4	1903.7	1989.9	1980.2	1935.7	1910.6	1888.4	1896.7
30°	5610.8	4383.4	2038.6	1700.5	1781.2	1866.1	1832.7	1817.4	1799.3	1774.3	1779.8
32.5°	5573.2	4103.7	1752.0	1610.0	1699.1	1713.0	1736.7	1735.3	1718.6	1671.3	1668.5
35°	5584.4	3821.3	1559.9	1536.3	1630.9	1625.4	1669.9	1661.5	1546.0	1480.6	1476.5
37.5°	5673.4	3549.9	1447.2	1477.8	1522.4	1557.2	1596.1	1495.9	1455.6	1413.8	1416.6
40°	5843.2	3298.0	1386.0	1445.8	1457.0	1508.5	1418.0	1416.6	1398.5	1361.0	1359.6
42.5°	6035.2	3085.1	1344.3	1430.5	1415.2	1425.0	1328.9	1340.1	1338.7	1315.0	1308.1
45°	6152.1	2888.9	1310.9	1373.5	1377.7	1280.2	1251.0	1263.5	1270.5	1258.0	1256.6
47.5°	6031.1	2663.5	1276.1	1285.8	1322.0	1214.8	1178.7	1180.1	1192.6	1194.0	1188.4
50°	5691.5	2411.6	1234.3	1210.7	1187.0	1146.7	1113.3	1106.3	1118.8	1131.3	1135.5
52.5°	5253.2	2170.8	1164.7	1128.6	1072.9	1072.9	1057.6	1035.3	1052.0	1068.7	1074.3
55°	4931.7	1992.7	1065.9	1025.6	964.4	985.2	982.4	963.0	985.2	997.8	1001.9
57.5°	4273.5	1601.7	937.9	925.4	873.9	899.0	904.5	879.5	868.3	871.1	875.3
60°	2536.8	1033.9	846.1	844.7	798.8	828.0	844.7	819.6	786.2	790.4	796.0
62.5°	1138.3	790.4	730.6	725.0	723.6	761.2	779.3	755.6	708.3	712.5	718.1
65°	716.7	683.3	634.6	634.6	656.8	688.8	702.7	683.3	629.0	622.0	627.6
67.5°	665.2	635.9	585.9	576.1	587.2	613.7	615.1	577.5	545.5	539.9	539.9
70°	597.0	574.7	526.0	506.5	502.4	501.0	496.8	487.0	466.2	460.6	463.4
72.5°	494.0	478.7	448.1	427.2	416.1	414.7	398.0	389.6	371.5	368.8	367.4
75°	327.0	331.2	331.2	328.4	318.7	314.5	296.4	288.1	267.2	258.8	257.4
77.5°	193.4	197.6	203.2	204.6	203.2	203.2	186.5	176.7	155.9	144.7	141.9
80°	118.3	121.1	123.8	128.0	122.5	118.3	103.0	93.2	83.5	76.5	75.1
82.5°	76.5	79.3	80.7	83.5	80.7	75.1	62.6	57.1	50.1	44.5	43.1
85°	43.1	44.5	47.3	47.3	43.1	39.0	32.0	27.8	23.7	20.9	20.9
87.5°	15.3	15.3	15.3	16.7	13.9	12.5	8.3	5.6	4.2	4.2	4.2
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)