

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: P635273

Luminaire Tested: GWS-SA3D-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635273
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-SA3D-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15965.1 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

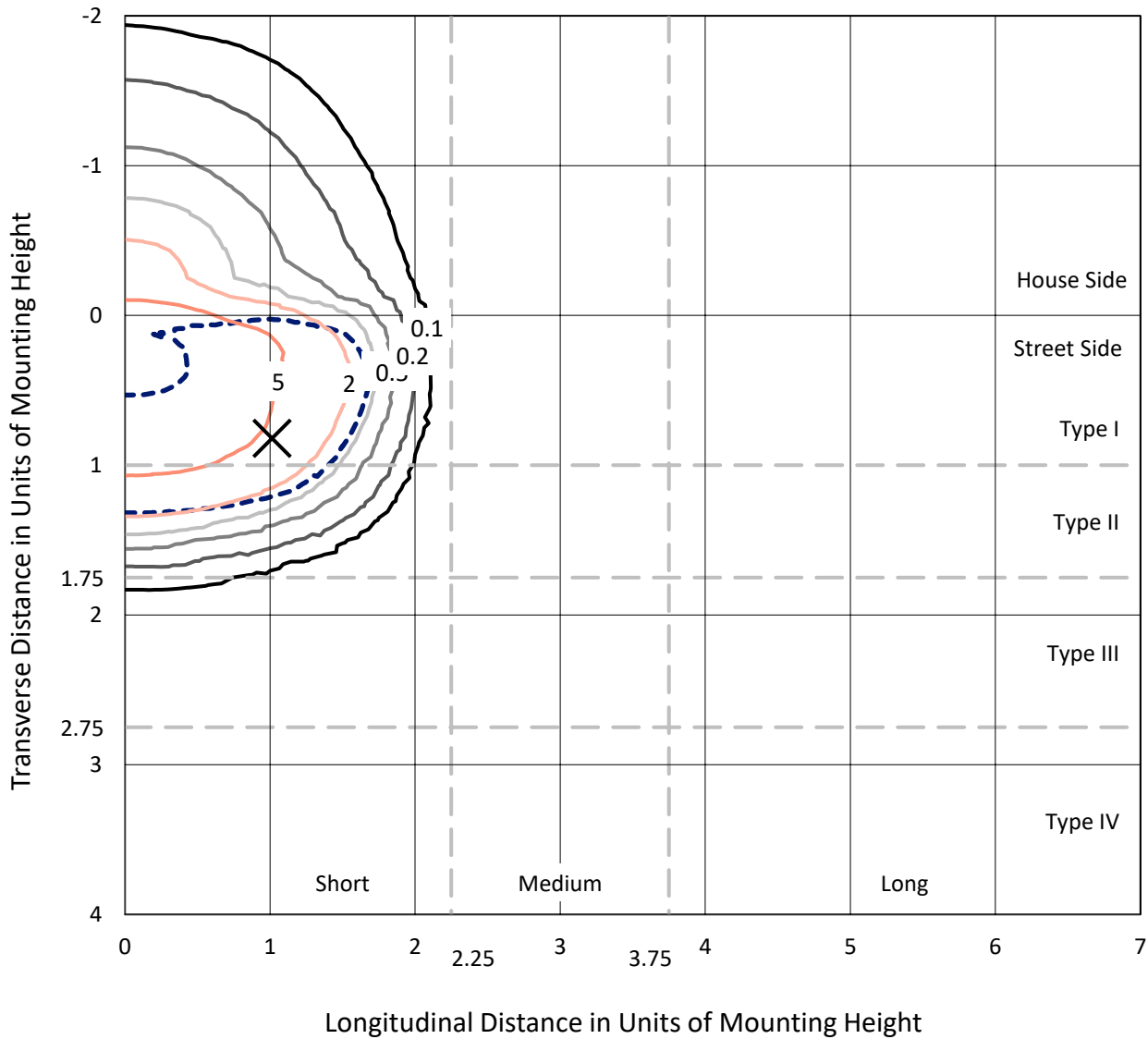
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

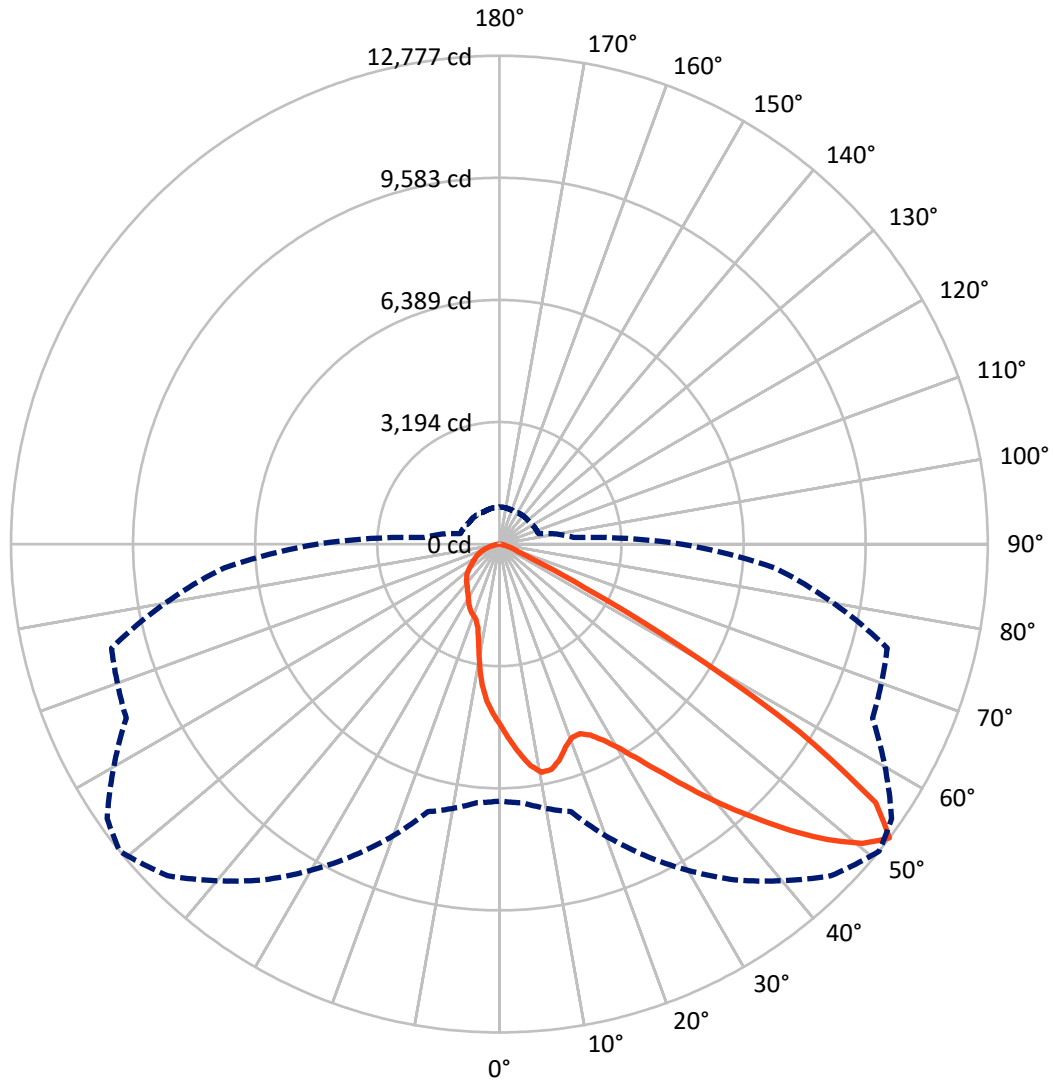
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	3110.7	0.0	3110.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	12854.4	0.0	12854.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	15965.1	0.0	15965.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.6	2.8
10°-20°	1152.6	7.2
20°-30°	1874.0	11.7
30°-40°	2969.9	18.6
40°-50°	4479.3	28.1
50°-60°	3874.9	24.3
60°-70°	878.5	5.5
70°-80°	259.0	1.6
80°-90°	33.4	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°	15965.1	100.0
0°-180°	15965.1	100.0

Coefficient of Utilization



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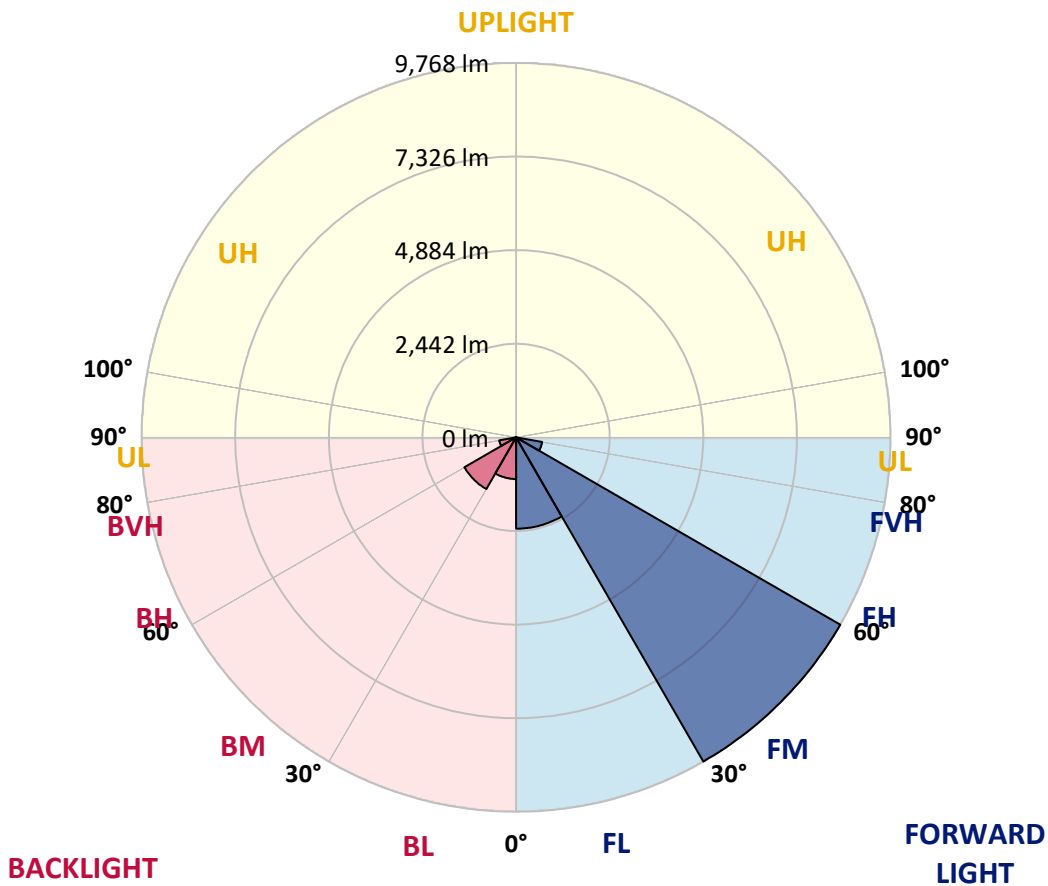
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2382.8	14.9			
FM (30°-60°)	9767.7	61.2			
FH (60°-80°)	691.4	4.3			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1087.4	6.8	B3/2500		
BM (30°-60°)	1556.4	9.7	B2/2500		
BH (60°-80°)	446.2	2.8	B1/500		G1/500
BVH (80°-90°)	20.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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°	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6
2.5°	5297.3	5327.6	5280.9	5263.3	5234.3	5183.8	5125.8	5109.4	4984.5	4902.5	4810.4
5°	5829.7	5846.1	5808.3	5770.4	5698.5	5609.0	5496.7	5472.7	5245.6	5057.6	4862.1
7.5°	5948.3	5942.0	5974.8	5996.3	5987.4	5952.1	5852.4	5805.8	5534.5	5236.8	4947.9
10°	5479.0	5443.7	5564.8	5708.6	5881.5	6080.8	6069.4	6065.6	5829.7	5477.7	5057.6
12.5°	4857.1	4839.4	4937.8	5118.2	5444.9	5886.5	6051.8	6180.4	6095.9	5707.4	5180.0
15°	4501.3	4495.0	4561.8	4691.8	4951.7	5509.3	5862.5	6117.4	6324.3	5953.4	5310.0
17.5°	4437.0	4440.7	4463.4	4537.9	4724.6	5183.8	5592.6	5948.3	6502.1	6223.3	5472.7
20°	4624.9	4650.2	4611.0	4622.4	4723.3	5066.5	5408.4	5778.0	6615.7	6494.6	5648.1
22.5°	5042.5	5033.7	4947.9	4897.4	4898.7	5138.4	5388.2	5698.5	6690.1	6758.2	5807.0
25°	5515.6	5505.5	5403.3	5291.0	5220.4	5333.9	5533.3	5783.1	6757.0	6999.2	5934.4
27.5°	6074.5	6042.9	5929.4	5785.6	5629.1	5678.3	5813.3	6011.4	6860.4	7236.4	6019.0
30°	6615.7	6652.3	6489.5	6319.2	6154.0	6123.7	6201.9	6381.0	7071.1	7513.9	6119.9
32.5°	7333.5	7320.9	7140.5	6918.5	6682.6	6659.8	6721.7	6885.7	7449.6	7897.4	6273.8
35°	8202.7	8205.3	7949.2	7648.9	7313.3	7252.8	7356.2	7515.2	8013.5	8417.2	6517.3
37.5°	9106.0	9102.2	8879.0	8538.3	8080.4	7994.6	8113.2	8231.8	8718.7	9125.0	6895.8
40°	9739.3	9764.6	9659.9	9480.7	9046.7	8837.3	8942.0	9024.0	9485.8	9957.6	7394.1
42.5°	10098.9	10136.7	10159.4	10266.7	10038.3	9815.0	9777.2	9820.1	10170.8	10730.9	7862.1
45°	10175.8	10226.3	10391.6	10789.0	10877.3	10814.2	10690.6	10587.1	10681.7	11279.7	8168.7
47.5°	9836.5	9924.8	10278.0	10973.2	11489.1	11687.2	11549.7	11392.0	10976.9	11421.0	8137.1
50°	8491.6	8595.1	9391.1	10597.2	11576.2	12297.8	12310.4	12077.0	10941.6	11013.5	7741.0
52.5°	6722.9	6793.6	7249.0	8983.7	10722.1	12272.6	12777.2	12527.4	10771.3	10503.9	7245.2
55°	4018.1	4131.7	4556.8	5926.9	8352.9	10877.3	11952.1	12073.3	10688.0	10076.2	6907.1
57.5°	1356.2	1411.7	1817.9	2617.8	4922.7	7964.3	9234.7	9726.7	9702.8	9422.7	6247.3
60°	645.9	658.5	740.5	992.9	1970.6	4161.9	5466.4	6034.1	6551.3	6603.1	3886.9
62.5°	492.0	499.6	541.2	595.5	792.3	1753.6	2505.5	2939.5	3140.1	2694.7	1415.5
65°	411.3	417.6	449.1	483.2	538.7	759.5	961.3	1108.9	999.2	778.4	674.9
67.5°	343.1	348.2	372.2	408.7	446.6	508.4	533.6	548.8	575.3	645.9	620.7
70°	268.7	273.8	299.0	330.5	367.1	382.3	406.2	421.4	474.4	565.2	562.7
72.5°	206.9	213.2	227.1	247.3	277.5	292.7	319.2	336.8	367.1	440.3	470.6
75°	151.4	155.2	167.8	174.1	177.9	174.1	200.6	220.8	261.1	288.9	296.5
77.5°	61.8	69.4	66.9	66.9	79.5	95.9	109.8	122.4	150.1	166.5	167.8
80°	25.2	27.8	32.8	36.6	44.2	56.8	65.6	70.6	83.3	93.4	100.9
82.5°	15.1	16.4	18.9	20.2	25.2	32.8	37.8	41.6	51.7	61.8	65.6
85°	7.6	7.6	8.8	10.1	12.6	15.1	17.7	20.2	26.5	32.8	36.6
87.5°	1.3	1.3	1.3	2.5	3.8	5.0	6.3	7.6	8.8	10.1	12.6
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°	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6
2.5°	4756.1	4688.0	4608.5	4545.4	4472.3	4418.0	4341.1	4293.1	4247.7	4209.9	4182.1
5°	4761.2	4646.4	4481.1	4334.8	4183.4	4039.6	3892.0	3772.1	3664.9	3575.3	3567.7
7.5°	4790.2	4624.9	4366.3	4110.2	3815.0	3529.9	3244.8	3012.6	2836.0	2743.9	2725.0
10°	4839.4	4622.4	4249.0	3840.2	3336.9	2877.6	2539.5	2362.9	2260.7	2224.2	2211.5
12.5°	4891.1	4616.1	4098.9	3459.2	2760.3	2357.9	2172.4	2151.0	2169.9	2172.4	2171.2
15°	4954.2	4612.3	3909.6	3012.6	2339.0	2116.9	2129.5	2175.0	2219.1	2229.2	2229.2
17.5°	5031.2	4603.5	3652.3	2576.1	2075.3	2070.2	2137.1	2197.7	2239.3	2246.9	2246.9
20°	5111.9	4580.8	3335.6	2220.4	1968.1	2041.2	2113.1	2159.8	2188.8	2198.9	2200.2
22.5°	5167.4	4520.2	2971.0	1956.7	1901.2	1985.7	2037.4	2085.4	2085.4	2060.1	2052.6
25°	5178.8	4390.3	2576.1	1776.3	1821.7	1899.9	1952.9	1925.2	1873.4	1853.3	1852.0
27.5°	5137.1	4201.0	2186.3	1647.6	1725.8	1804.0	1795.2	1754.8	1732.1	1712.0	1719.5
30°	5086.7	3974.0	1848.2	1541.6	1614.8	1691.8	1661.5	1647.6	1631.2	1608.5	1613.6
32.5°	5052.6	3720.4	1588.3	1459.6	1540.4	1553.0	1574.4	1573.2	1558.0	1515.1	1512.6
35°	5062.7	3464.3	1414.2	1392.8	1478.6	1473.5	1513.9	1506.3	1401.6	1342.3	1338.5
37.5°	5143.4	3218.3	1312.0	1339.8	1380.2	1411.7	1447.0	1356.2	1319.6	1281.8	1284.3
40°	5297.3	2989.9	1256.5	1310.8	1320.9	1367.5	1285.5	1284.3	1267.9	1233.8	1232.6
42.5°	5471.4	2796.9	1218.7	1296.9	1283.0	1291.9	1204.8	1214.9	1213.6	1192.2	1185.9
45°	5577.4	2619.0	1188.4	1245.2	1249.0	1160.6	1134.2	1145.5	1151.8	1140.5	1139.2
47.5°	5467.7	2414.7	1156.9	1165.7	1198.5	1101.4	1068.6	1069.8	1081.2	1082.4	1077.4
50°	5159.8	2186.3	1119.0	1097.6	1076.1	1039.5	1009.3	1003.0	1014.3	1025.7	1029.4
52.5°	4762.4	1968.1	1055.9	1023.1	972.7	972.7	958.8	938.6	953.7	968.9	973.9
55°	4471.0	1806.6	966.4	929.8	874.3	893.2	890.7	873.0	893.2	904.5	908.3
57.5°	3874.3	1452.1	850.3	838.9	792.3	815.0	820.0	797.3	787.2	789.7	793.5
60°	2299.8	937.3	767.0	765.8	724.1	750.6	765.8	743.1	712.8	716.6	721.6
62.5°	1032.0	716.6	662.3	657.3	656.0	690.1	706.5	685.0	642.1	645.9	651.0
65°	649.7	619.4	575.3	575.3	595.5	624.5	637.1	619.4	570.2	563.9	569.0
67.5°	603.0	576.5	531.1	522.3	532.4	556.4	557.6	523.6	494.5	489.5	489.5
70°	541.2	521.0	476.9	459.2	455.4	454.2	450.4	441.6	422.6	417.6	420.1
72.5°	447.9	434.0	406.2	387.3	377.2	375.9	360.8	353.2	336.8	334.3	333.1
75°	296.5	300.3	300.3	297.7	288.9	285.1	268.7	261.1	242.2	234.7	233.4
77.5°	175.4	179.1	184.2	185.5	184.2	184.2	169.1	160.2	141.3	131.2	128.7
80°	107.2	109.8	112.3	116.1	111.0	107.2	93.4	84.5	75.7	69.4	68.1
82.5°	69.4	71.9	73.2	75.7	73.2	68.1	56.8	51.7	45.4	40.4	39.1
85°	39.1	40.4	42.9	42.9	39.1	35.3	29.0	25.2	21.4	18.9	18.9
87.5°	13.9	13.9	13.9	15.1	12.6	11.4	7.6	5.0	3.8	3.8	3.8
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)