

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: P635548

Luminaire Tested: GWS-SA3E-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635548
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-SA3E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14695.6 lumens
Efficiency: N/A
Efficacy: 92.3 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

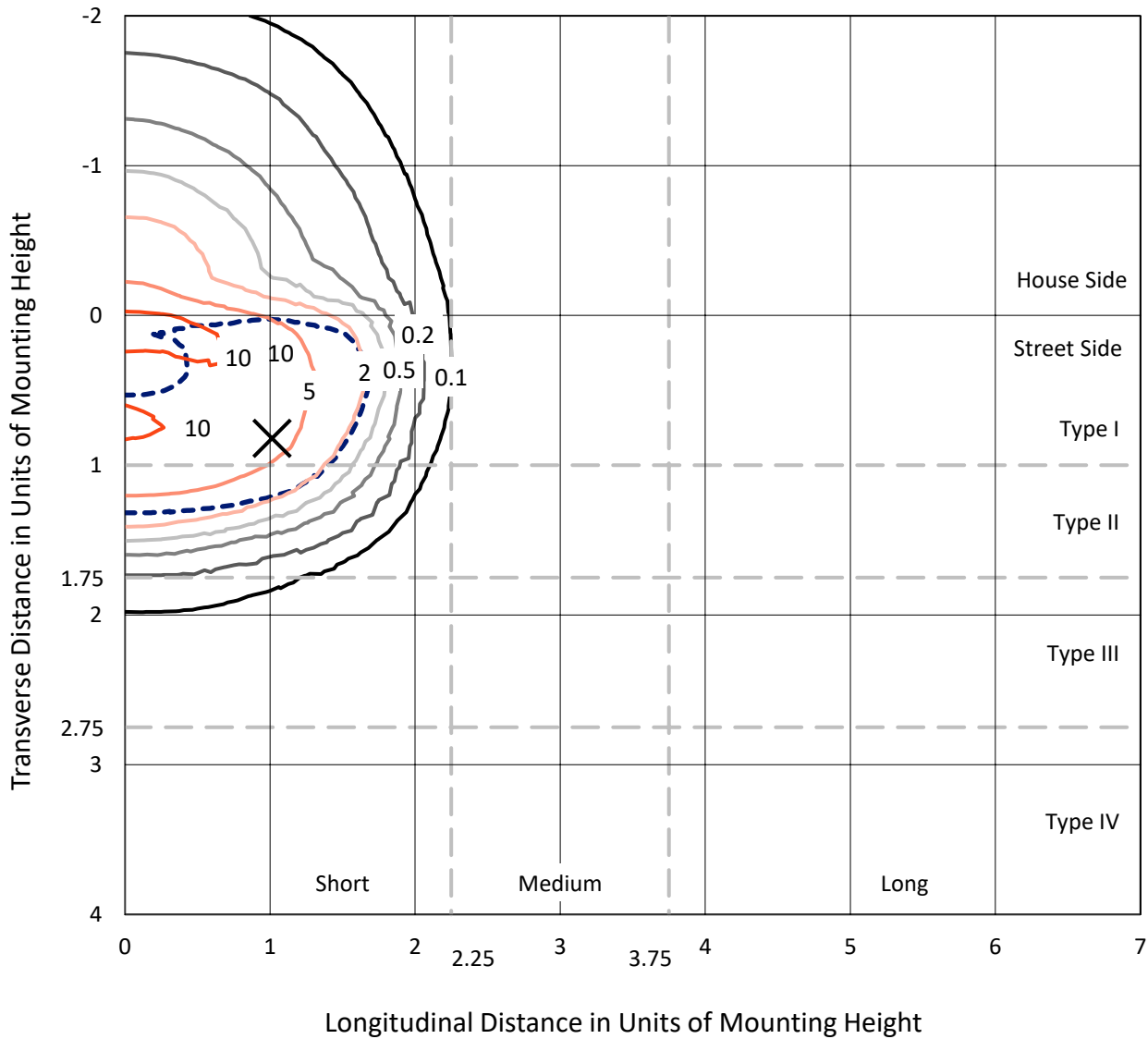
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

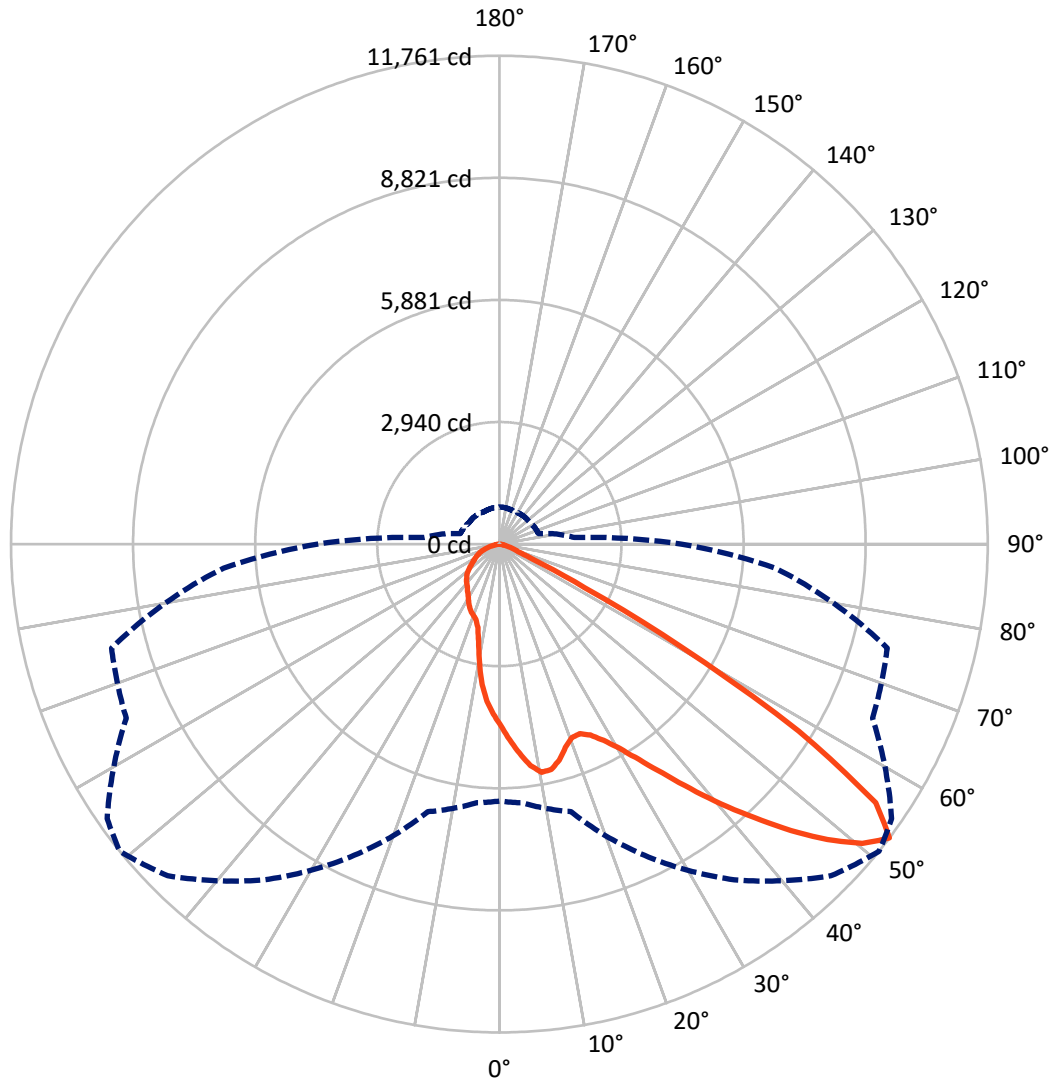
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.4 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	2863.3	0.0	2863.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11832.3	0.0	11832.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	14695.6	0.0	14695.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.3	2.8
10°-20°	1060.9	7.2
20°-30°	1725.0	11.7
30°-40°	2733.7	18.6
40°-50°	4123.1	28.1
50°-60°	3566.8	24.3
60°-70°	808.6	5.5
70°-80°	238.4	1.6
80°-90°	30.7	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°	14695.6	100.0
0°-180°	14695.6	100.0

Coefficient of Utilization



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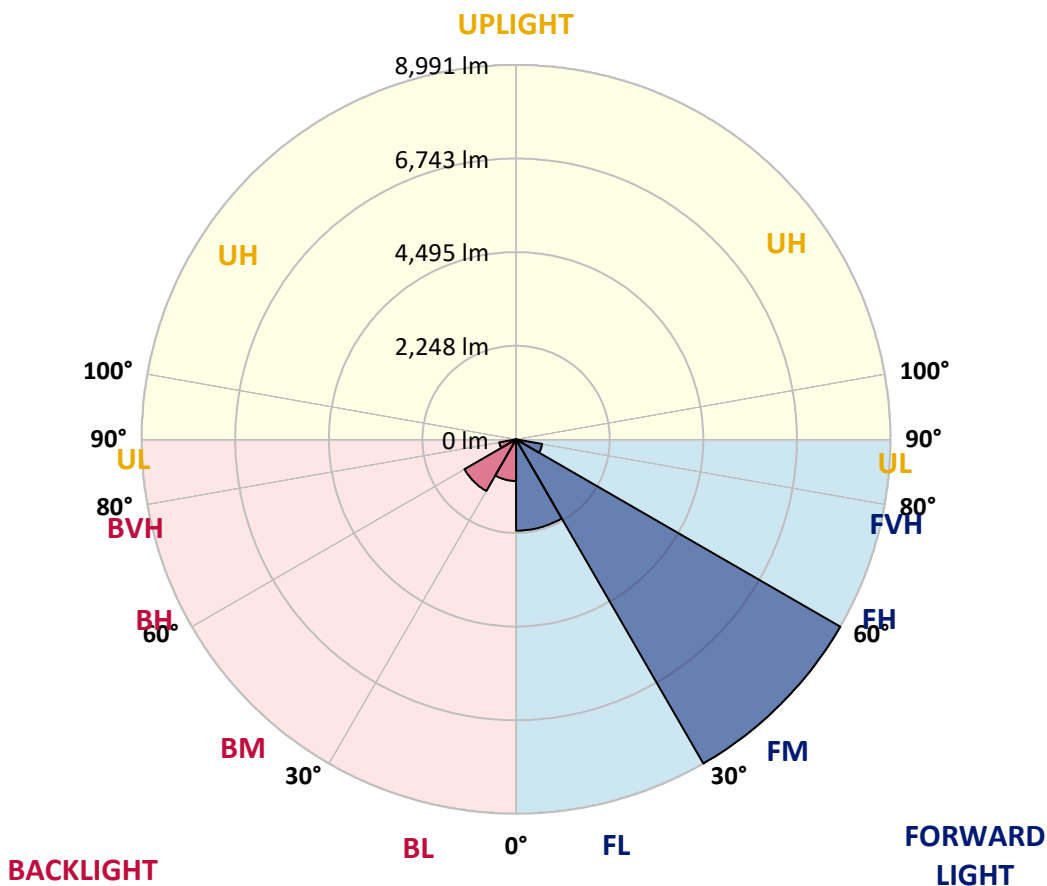
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.4	14.9			
FM (30°-60°)	8991.0	61.2			
FH (60°-80°)	636.4	4.3			G0/660
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	1000.9	6.8	B3/2500		
BM (30°-60°)	1432.6	9.7	B2/2500		
BH (60°-80°)	410.7	2.8	B1/500		G1/500
BVH (80°-90°)	19.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6
2.5°	4876.1	4904.0	4861.0	4844.8	4818.1	4771.6	4718.2	4703.1	4588.1	4512.6	4427.9
5°	5366.2	5381.3	5346.4	5311.6	5245.4	5162.9	5059.6	5037.5	4828.5	4655.5	4475.5
7.5°	5475.3	5469.5	5499.7	5519.5	5511.3	5478.8	5387.1	5344.1	5094.4	4820.4	4554.4
10°	5043.3	5010.8	5122.3	5254.7	5413.8	5597.3	5586.8	5583.3	5366.2	5042.2	4655.5
12.5°	4470.8	4454.6	4545.2	4711.2	5012.0	5418.4	5570.5	5689.0	5611.2	5253.5	4768.1
15°	4143.4	4137.6	4199.1	4318.7	4557.9	5071.2	5396.4	5630.9	5821.4	5480.0	4887.7
17.5°	4084.1	4087.6	4108.5	4177.0	4348.9	4771.6	5147.8	5475.3	5985.1	5728.5	5037.5
20°	4257.2	4280.4	4244.4	4254.8	4347.7	4663.6	4978.3	5318.6	6089.6	5978.1	5198.9
22.5°	4641.5	4633.4	4554.4	4508.0	4509.2	4729.8	4959.7	5245.4	6158.1	6220.8	5345.3
25°	5077.0	5067.7	4973.7	4870.3	4805.3	4909.8	5093.3	5323.2	6219.7	6442.6	5462.5
27.5°	5591.4	5562.4	5457.9	5325.5	5181.5	5226.8	5351.1	5533.4	6314.9	6661.0	5540.4
30°	6089.6	6123.3	5973.5	5816.7	5664.6	5636.7	5708.7	5873.6	6508.8	6916.4	5633.3
32.5°	6750.4	6738.8	6572.7	6368.3	6151.2	6130.3	6187.2	6338.1	6857.2	7269.5	5774.9
35°	7550.5	7552.8	7317.1	7040.7	6731.8	6676.1	6771.3	6917.6	7376.3	7747.9	5999.0
37.5°	8381.9	8378.5	8172.9	7859.4	7437.8	7358.9	7468.0	7577.2	8025.4	8399.4	6347.4
40°	8964.9	8988.1	8891.7	8726.8	8327.4	8134.6	8231.0	8306.5	8731.5	9165.8	6806.1
42.5°	9295.9	9330.7	9351.6	9450.3	9240.1	9034.6	8999.7	9039.2	9362.0	9877.6	7236.9
45°	9366.7	9413.1	9565.3	9931.1	10012.4	9954.3	9840.5	9745.3	9832.4	10382.8	7519.1
47.5°	9054.3	9135.6	9460.8	10100.6	10575.6	10757.9	10631.3	10486.1	10104.1	10512.9	7490.1
50°	7816.4	7911.6	8644.4	9754.6	10655.7	11319.9	11331.5	11116.7	10071.6	10137.8	7125.5
52.5°	6188.3	6253.4	6672.6	8269.3	9869.5	11296.7	11761.2	11531.3	9914.8	9668.6	6669.1
55°	3698.6	3803.1	4194.5	5455.6	7688.7	10012.4	11001.7	11113.2	9838.2	9275.0	6357.9
57.5°	1248.4	1299.4	1673.4	2409.6	4531.2	7331.0	8500.4	8953.3	8931.2	8673.4	5750.5
60°	594.6	606.2	681.7	913.9	1813.9	3831.0	5031.7	5554.3	6030.4	6078.0	3577.8
62.5°	452.9	459.9	498.2	548.1	729.3	1614.1	2306.3	2705.7	2890.4	2480.4	1302.9
65°	378.6	384.4	413.4	444.8	495.9	699.1	884.9	1020.7	919.7	716.5	621.3
67.5°	315.9	320.5	342.6	376.2	411.1	468.0	491.2	505.1	529.5	594.6	571.3
70°	247.3	252.0	275.2	304.2	337.9	351.9	373.9	387.9	436.6	520.2	517.9
72.5°	190.4	196.3	209.0	227.6	255.5	269.4	293.8	310.1	337.9	405.3	433.1
75°	139.4	142.8	154.4	160.3	163.7	160.3	184.6	203.2	240.4	265.9	272.9
77.5°	56.9	63.9	61.5	61.5	73.2	88.3	101.0	112.6	138.2	153.3	154.4
80°	23.2	25.5	30.2	33.7	40.6	52.3	60.4	65.0	76.6	85.9	92.9
82.5°	13.9	15.1	17.4	18.6	23.2	30.2	34.8	38.3	47.6	56.9	60.4
85°	7.0	7.0	8.1	9.3	11.6	13.9	16.3	18.6	24.4	30.2	33.7
87.5°	1.2	1.2	1.2	2.3	3.5	4.6	5.8	7.0	8.1	9.3	11.6
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°	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6	4375.6
2.5°	4377.9	4315.2	4242.1	4184.0	4116.7	4066.7	3995.9	3951.8	3909.9	3875.1	3849.6
5°	4382.6	4276.9	4124.8	3990.1	3850.7	3718.3	3582.5	3472.2	3373.4	3291.0	3284.0
7.5°	4409.3	4257.2	4019.1	3783.4	3511.6	3249.2	2986.8	2773.1	2610.5	2525.7	2508.3
10°	4454.6	4254.8	3911.1	3534.9	3071.5	2648.8	2337.6	2175.0	2081.0	2047.3	2035.7
12.5°	4502.2	4249.0	3772.9	3184.2	2540.8	2170.4	1999.7	1979.9	1997.4	1999.7	1998.5
15°	4560.3	4245.6	3598.7	2773.1	2153.0	1948.6	1960.2	2002.0	2042.6	2051.9	2051.9
17.5°	4631.1	4237.4	3361.8	2371.3	1910.3	1905.6	1967.2	2022.9	2061.2	2068.2	2068.2
20°	4705.4	4216.5	3070.4	2043.8	1811.6	1878.9	1945.1	1988.1	2014.8	2024.1	2025.2
22.5°	4756.5	4160.8	2734.8	1801.1	1750.0	1827.8	1875.4	1919.6	1919.6	1896.3	1889.4
25°	4767.0	4041.2	2371.3	1635.0	1676.9	1748.9	1797.6	1772.1	1724.5	1705.9	1704.7
27.5°	4728.6	3867.0	2012.5	1516.6	1588.6	1660.6	1652.5	1615.3	1594.4	1575.8	1582.8
30°	4682.2	3658.0	1701.2	1419.1	1486.4	1557.2	1529.4	1516.6	1501.5	1480.6	1485.2
32.5°	4650.8	3424.5	1462.0	1343.6	1417.9	1429.5	1449.2	1448.1	1434.2	1394.7	1392.3
35°	4660.1	3188.8	1301.8	1282.0	1361.0	1356.3	1393.5	1386.5	1290.2	1235.6	1232.1
37.5°	4734.4	2962.4	1207.7	1233.3	1270.4	1299.4	1332.0	1248.4	1214.7	1179.8	1182.2
40°	4876.1	2752.2	1156.6	1206.5	1215.8	1258.8	1183.3	1182.2	1167.1	1135.7	1134.5
42.5°	5036.4	2574.5	1121.8	1193.8	1181.0	1189.1	1109.0	1118.3	1117.1	1097.4	1091.6
45°	5133.9	2410.8	1093.9	1146.2	1149.6	1068.4	1044.0	1054.4	1060.2	1049.8	1048.6
47.5°	5032.9	2222.6	1064.9	1073.0	1103.2	1013.8	983.6	984.7	995.2	996.4	991.7
50°	4749.5	2012.5	1030.0	1010.3	990.6	956.9	929.0	923.2	933.6	944.1	947.6
52.5°	4383.7	1811.6	972.0	941.8	895.3	895.3	882.6	864.0	877.9	891.8	896.5
55°	4115.5	1662.9	889.5	855.8	804.8	822.2	819.8	803.6	822.2	832.6	836.1
57.5°	3566.2	1336.6	782.7	772.2	729.3	750.2	754.8	733.9	724.6	726.9	730.4
60°	2117.0	862.8	706.0	704.9	666.6	690.9	704.9	684.0	656.1	659.6	664.2
62.5°	949.9	659.6	609.7	605.0	603.9	635.2	650.3	630.6	591.1	594.6	599.2
65°	598.0	570.2	529.5	529.5	548.1	574.8	586.4	570.2	524.9	519.1	523.7
67.5°	555.1	530.7	488.9	480.8	490.1	512.1	513.3	481.9	455.2	450.6	450.6
70°	498.2	479.6	439.0	422.7	419.2	418.1	414.6	406.4	389.0	384.4	386.7
72.5°	412.2	399.5	373.9	356.5	347.2	346.1	332.1	325.2	310.1	307.7	306.6
75°	272.9	276.4	276.4	274.1	265.9	262.4	247.3	240.4	223.0	216.0	214.8
77.5°	161.4	164.9	169.5	170.7	169.5	169.5	155.6	147.5	130.1	120.8	118.4
80°	98.7	101.0	103.4	106.8	102.2	98.7	85.9	77.8	69.7	63.9	62.7
82.5°	63.9	66.2	67.4	69.7	67.4	62.7	52.3	47.6	41.8	37.2	36.0
85°	36.0	37.2	39.5	39.5	36.0	32.5	26.7	23.2	19.7	17.4	17.4
87.5°	12.8	12.8	12.8	13.9	11.6	10.5	7.0	4.6	3.5	3.5	3.5
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)