

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: P636868

Luminaire Tested: GWS-SA4B-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636868  
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-SA4B-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13247.9 lumens  
Efficiency: N/A  
Efficacy: 140.3 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

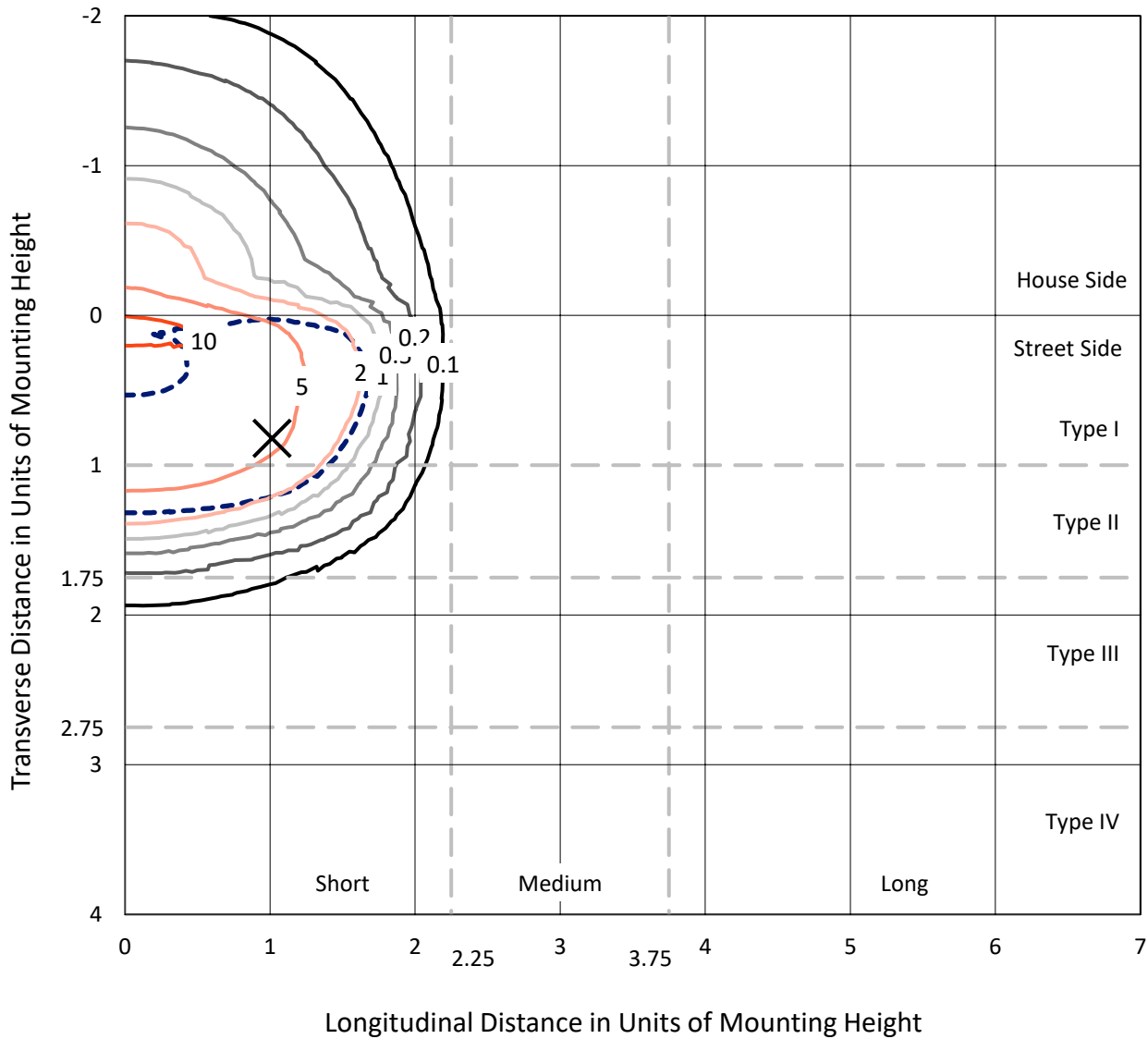


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### Iso-Footcandle Lines of Horizontal Illumination

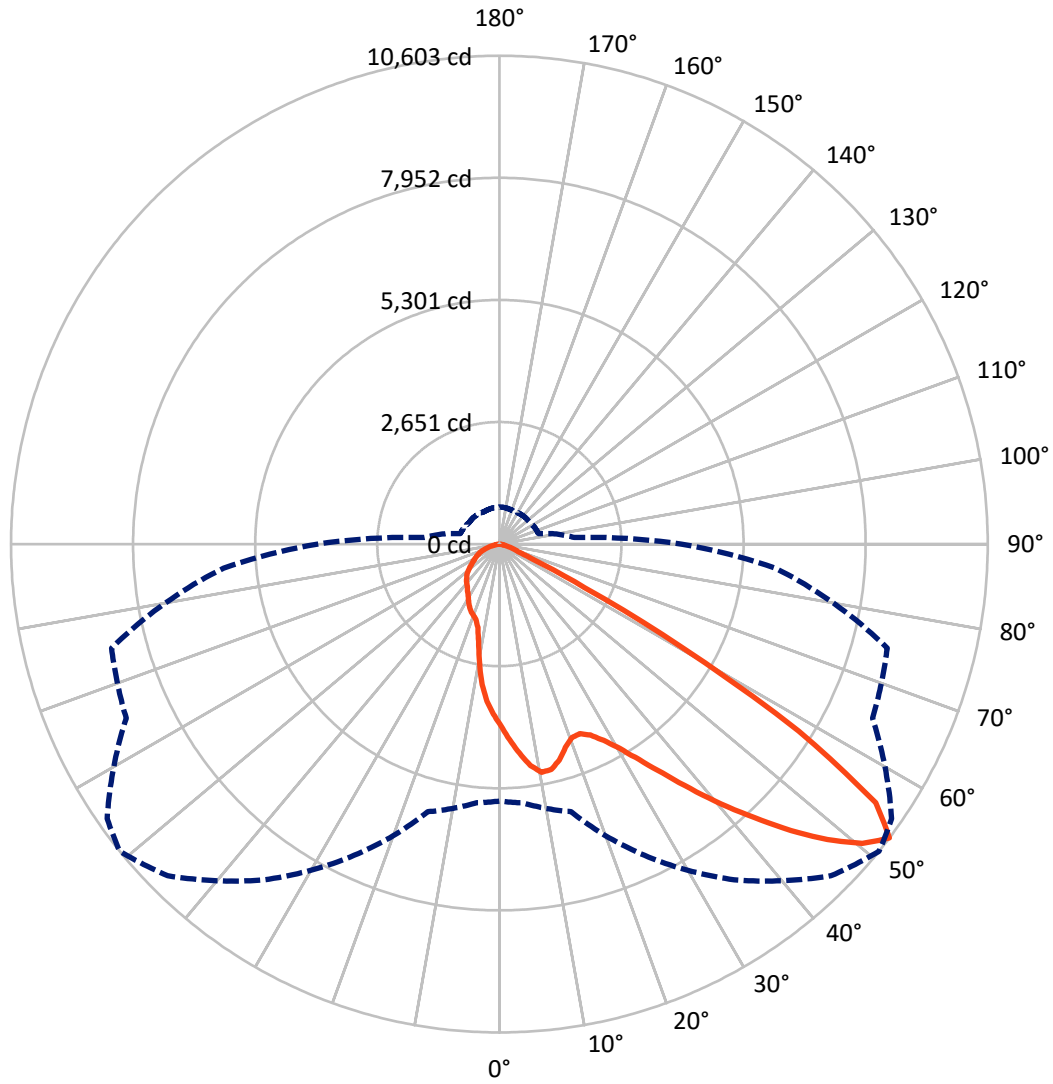
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12 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
<b>House Side</b>	Lumens	2581.3	0.0	2581.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	10666.6	0.0	10666.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	13247.9	0.0	13247.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.1	2.8
10°-20°	956.4	7.2
20°-30°	1555.1	11.7
30°-40°	2464.4	18.6
40°-50°	3716.9	28.1
50°-60°	3215.4	24.3
60°-70°	729.0	5.5
70°-80°	214.9	1.6
80°-90°	27.7	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°	13247.9	100.0
0°-180°	13247.9	100.0

**Coefficient of Utilization**



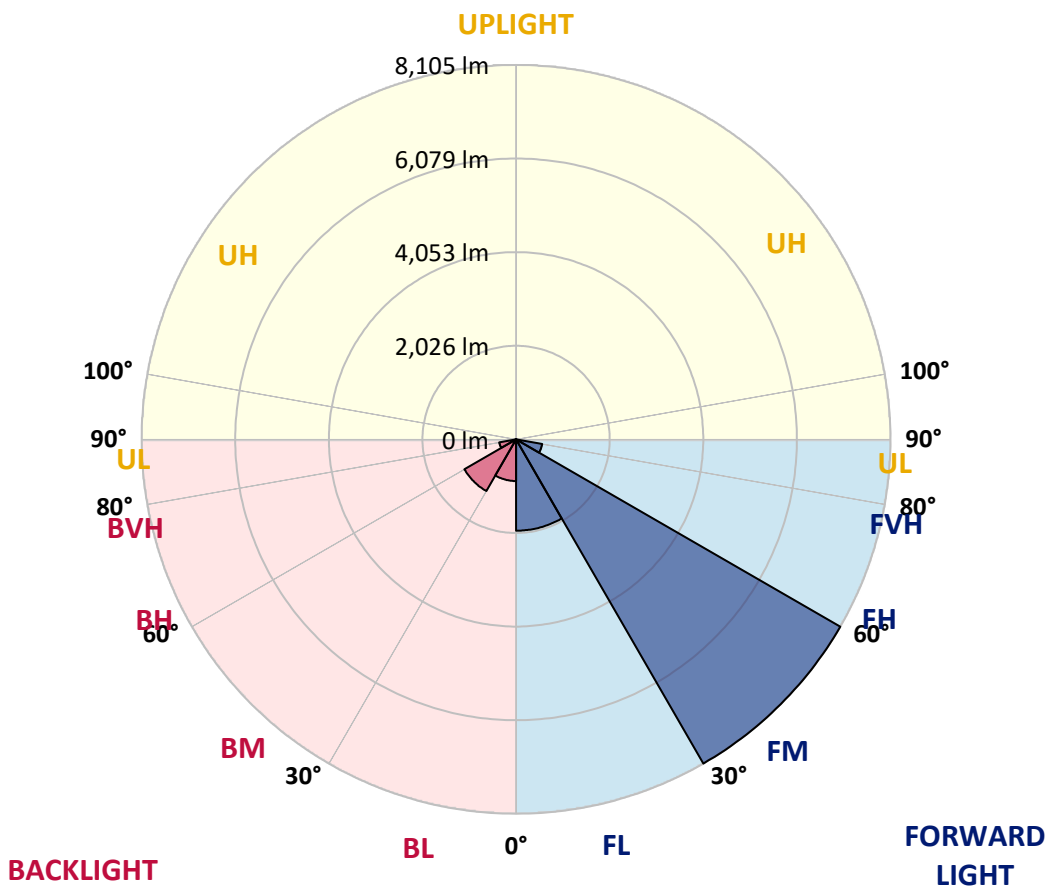
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1977.3	14.9			
FM (30°-60°)	8105.3	61.2			
FH (60°-80°)	573.7	4.3			G0/660
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	902.3	6.8	B2/1000		
BM (30°-60°)	1291.5	9.7	B2/2500		
BH (60°-80°)	370.2	2.8	B1/500		G1/500
BVH (80°-90°)	17.3	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°	51°	55°	65°	75°	85°
0°	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6
2.5°	4395.8	4420.9	4382.1	4367.5	4343.4	4301.5	4253.4	4239.8	4136.1	4068.1	3991.7
5°	4837.5	4851.1	4819.7	4788.3	4728.7	4654.3	4561.2	4541.3	4352.8	4196.9	4034.6
7.5°	4935.9	4930.7	4957.9	4975.7	4968.4	4939.1	4856.4	4817.6	4592.6	4345.5	4105.8
10°	4546.5	4517.2	4617.7	4737.0	4880.5	5045.9	5036.4	5033.3	4837.5	4545.5	4196.9
12.5°	4030.4	4015.7	4097.4	4247.1	4518.2	4884.6	5021.8	5128.6	5058.4	4736.0	4298.4
15°	3735.2	3730.0	3785.4	3893.3	4108.9	4571.6	4864.7	5076.2	5247.9	4940.1	4406.2
17.5°	3681.8	3684.9	3703.8	3765.5	3920.5	4301.5	4640.7	4935.9	5395.5	5164.2	4541.3
20°	3837.8	3858.7	3826.3	3835.7	3919.4	4204.2	4487.9	4794.6	5489.7	5389.2	4686.8
22.5°	4184.3	4177.0	4105.8	4063.9	4064.9	4263.9	4471.1	4728.7	5551.5	5608.0	4818.7
25°	4576.9	4568.5	4483.7	4390.5	4331.9	4426.1	4591.5	4798.8	5607.0	5808.0	4924.4
27.5°	5040.6	5014.4	4920.2	4800.9	4671.1	4711.9	4823.9	4988.3	5692.8	6004.8	4994.6
30°	5489.7	5520.1	5385.0	5243.7	5106.6	5081.4	5146.4	5295.0	5867.6	6235.1	5078.3
32.5°	6085.4	6074.9	5925.2	5741.0	5545.2	5526.4	5577.7	5713.8	6181.7	6553.3	5206.0
35°	6806.7	6808.8	6596.3	6347.1	6068.6	6018.4	6104.2	6236.1	6649.6	6984.6	5408.1
37.5°	7556.2	7553.1	7367.8	7085.1	6705.1	6633.9	6732.3	6830.7	7234.8	7571.9	5722.1
40°	8081.7	8102.7	8015.8	7867.1	7507.0	7333.2	7420.1	7488.2	7871.3	8262.8	6135.6
42.5°	8380.1	8411.5	8430.3	8519.3	8329.8	8144.6	8113.1	8148.7	8439.8	8904.6	6524.0
45°	8444.0	8485.8	8623.0	8952.7	9026.0	8973.7	8871.1	8785.2	8863.7	9360.0	6778.4
47.5°	8162.4	8235.6	8528.8	9105.6	9533.7	9698.1	9584.0	9453.1	9108.7	9477.2	6752.2
50°	7046.4	7132.2	7792.8	8793.6	9606.0	10204.8	10215.2	10021.6	9079.4	9139.1	6423.5
52.5°	5578.7	5637.3	6015.2	7454.7	8897.2	10183.8	10602.6	10395.3	8938.1	8716.1	6012.1
55°	3334.2	3428.5	3781.3	4918.1	6931.2	9026.0	9917.9	10018.4	8869.0	8361.3	5731.5
57.5°	1125.4	1171.4	1508.5	2172.2	4084.8	6608.8	7663.0	8071.3	8051.4	7819.0	5184.0
60°	536.0	546.5	614.5	823.9	1635.2	3453.6	4536.0	5007.1	5436.3	5479.3	3225.4
62.5°	408.3	414.6	449.1	494.1	657.4	1455.1	2079.1	2439.2	2605.6	2236.1	1174.6
65°	341.3	346.5	372.7	400.9	447.0	630.2	797.7	920.2	829.1	645.9	560.1
67.5°	284.7	288.9	308.8	339.2	370.6	421.9	442.8	455.4	477.4	536.0	515.1
70°	223.0	227.2	248.1	274.3	304.6	317.2	337.1	349.7	393.6	469.0	466.9
72.5°	171.7	176.9	188.4	205.2	230.3	242.9	264.9	279.5	304.6	365.4	390.5
75°	125.6	128.8	139.2	144.5	147.6	144.5	166.5	183.2	216.7	239.7	246.0
77.5°	51.3	57.6	55.5	55.5	66.0	79.6	91.1	101.5	124.6	138.2	139.2
80°	20.9	23.0	27.2	30.4	36.6	47.1	54.4	58.6	69.1	77.5	83.7
82.5°	12.6	13.6	15.7	16.7	20.9	27.2	31.4	34.5	42.9	51.3	54.4
85°	6.3	6.3	7.3	8.4	10.5	12.6	14.7	16.7	22.0	27.2	30.4
87.5°	1.0	1.0	1.0	2.1	3.1	4.2	5.2	6.3	7.3	8.4	10.5
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°	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6	3944.6
2.5°	3946.7	3890.1	3824.2	3771.8	3711.1	3666.1	3602.2	3562.5	3524.8	3493.4	3470.3
5°	3950.8	3855.6	3718.4	3597.0	3471.4	3352.0	3229.6	3130.1	3041.1	2966.8	2960.5
7.5°	3974.9	3837.8	3623.2	3410.7	3165.7	2929.1	2692.5	2499.9	2353.3	2276.9	2261.2
10°	4015.7	3835.7	3525.8	3186.6	2768.9	2387.9	2107.3	1960.8	1876.0	1845.6	1835.1
12.5°	4058.7	3830.5	3401.2	2870.5	2290.5	1956.6	1802.7	1784.9	1800.6	1802.7	1801.6
15°	4111.0	3827.3	3244.2	2499.9	1940.9	1756.6	1767.1	1804.8	1841.4	1849.8	1849.8
17.5°	4174.9	3820.0	3030.7	2137.7	1722.1	1717.9	1773.4	1823.6	1858.2	1864.5	1864.5
20°	4241.9	3801.1	2767.9	1842.5	1633.1	1693.8	1753.5	1792.2	1816.3	1824.7	1825.7
22.5°	4287.9	3750.9	2465.4	1623.7	1577.6	1647.8	1690.7	1730.5	1730.5	1709.5	1703.2
25°	4297.4	3643.1	2137.7	1474.0	1511.7	1576.6	1620.5	1597.5	1554.6	1537.8	1536.8
27.5°	4262.8	3486.0	1814.2	1367.2	1432.1	1497.0	1489.7	1456.2	1437.3	1420.6	1426.9
30°	4220.9	3297.6	1533.6	1279.3	1340.0	1403.8	1378.7	1367.2	1353.6	1334.7	1338.9
32.5°	4192.7	3087.2	1318.0	1211.2	1278.2	1288.7	1306.5	1305.4	1292.9	1257.3	1255.2
35°	4201.0	2874.7	1173.5	1155.7	1226.9	1222.7	1256.2	1249.9	1163.1	1113.9	1110.7
37.5°	4268.0	2670.5	1088.7	1111.8	1145.3	1171.4	1200.7	1125.4	1095.0	1063.6	1065.7
40°	4395.8	2481.1	1042.7	1087.7	1096.1	1134.8	1066.7	1065.7	1052.1	1023.8	1022.8
42.5°	4540.2	2320.9	1011.3	1076.2	1064.7	1072.0	999.7	1008.1	1007.1	989.3	984.0
45°	4628.2	2173.3	986.1	1033.2	1036.4	963.1	941.1	950.5	955.8	946.4	945.3
47.5°	4537.1	2003.7	960.0	967.3	994.5	913.9	886.7	887.7	897.2	898.2	894.0
50°	4281.6	1814.2	928.6	910.8	893.0	862.6	837.5	832.3	841.7	851.1	854.2
52.5°	3951.9	1633.1	876.2	849.0	807.1	807.1	795.6	778.9	791.4	804.0	808.2
55°	3710.1	1499.1	801.9	771.5	725.5	741.2	739.1	724.4	741.2	750.6	753.7
57.5°	3214.9	1204.9	705.6	696.2	657.4	676.3	680.5	661.6	653.2	655.3	658.5
60°	1908.4	777.8	636.5	635.4	600.9	622.9	635.4	616.6	591.5	594.6	598.8
62.5°	856.3	594.6	549.6	545.4	544.4	572.6	586.2	568.4	532.9	536.0	540.2
65°	539.1	514.0	477.4	477.4	494.1	518.2	528.7	514.0	473.2	467.9	472.1
67.5°	500.4	478.4	440.7	433.4	441.8	461.7	462.7	434.4	410.4	406.2	406.2
70°	449.1	432.4	395.7	381.1	377.9	376.9	373.7	366.4	350.7	346.5	348.6
72.5°	371.6	360.1	337.1	321.4	313.0	312.0	299.4	293.1	279.5	277.4	276.4
75°	246.0	249.2	249.2	247.1	239.7	236.6	223.0	216.7	201.0	194.7	193.7
77.5°	145.5	148.7	152.8	153.9	152.8	152.8	140.3	133.0	117.2	108.9	106.8
80°	89.0	91.1	93.2	96.3	92.1	89.0	77.5	70.1	62.8	57.6	56.5
82.5°	57.6	59.7	60.7	62.8	60.7	56.5	47.1	42.9	37.7	33.5	32.5
85°	32.5	33.5	35.6	35.6	32.5	29.3	24.1	20.9	17.8	15.7	15.7
87.5°	11.5	11.5	11.5	12.6	10.5	9.4	6.3	4.2	3.1	3.1	3.1
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)