

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: P631398

Luminaire Tested: GWS-SA1F-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631398  
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-SA1F-750-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

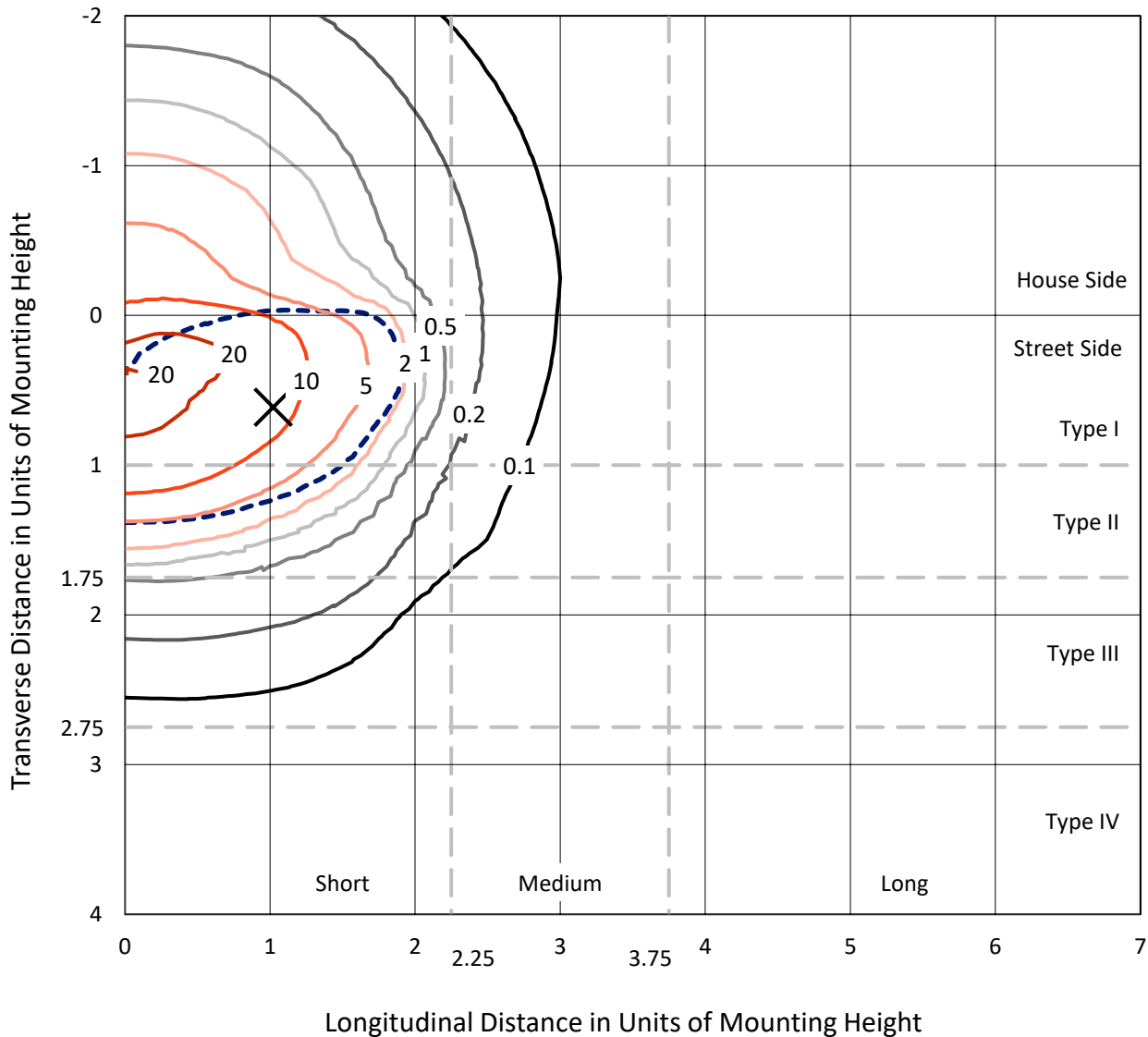
Lumens per Lamp: N/A  
Luminaire Lumens: 7584.7 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

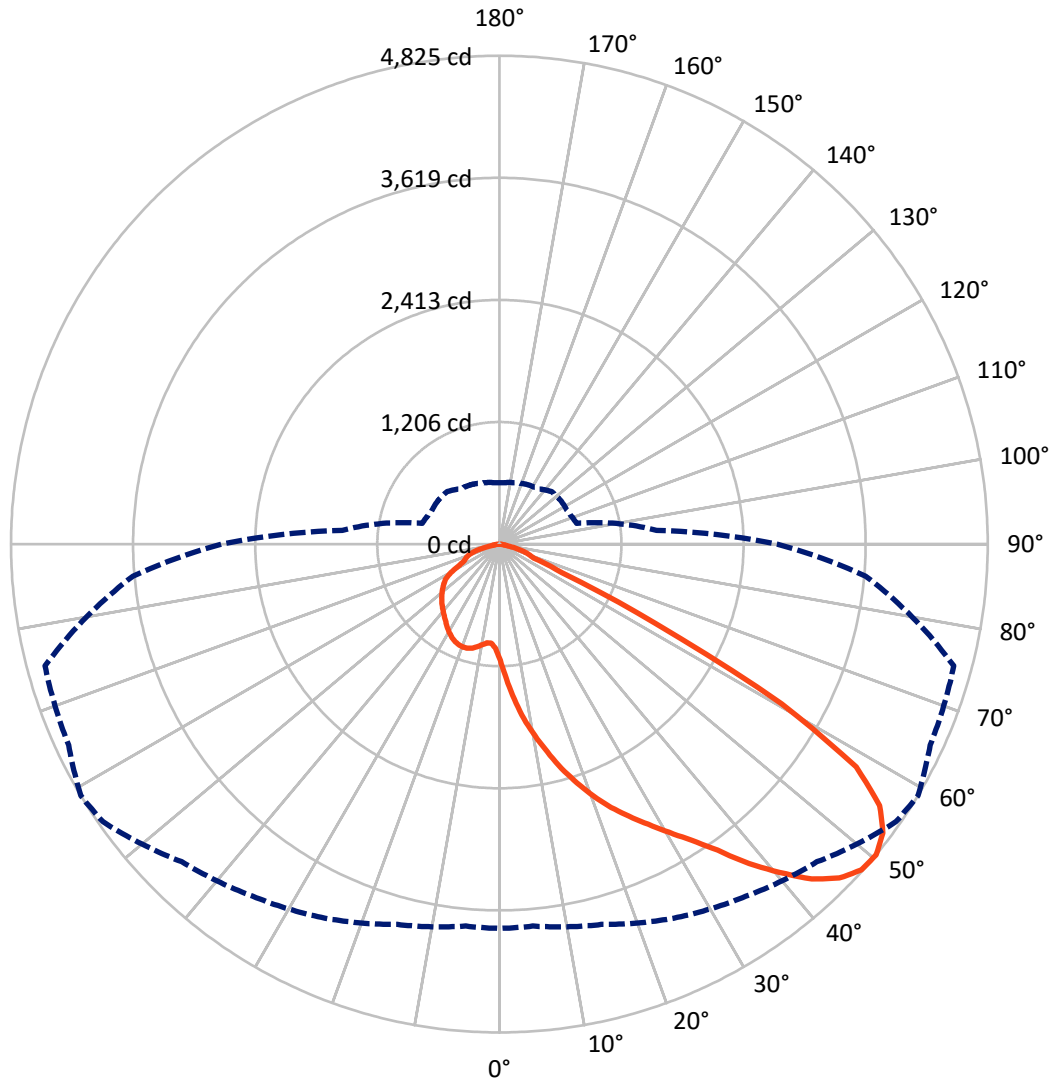
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1744.6	0.0	1744.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	5840.1	0.0	5840.1
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	7584.7	0.0	7584.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.9	1.7
10°-20°	468.0	6.2
20°-30°	886.2	11.7
30°-40°	1469.5	19.4
40°-50°	2007.5	26.5
50°-60°	1822.2	24.0
60°-70°	606.8	8.0
70°-80°	177.0	2.3
80°-90°	18.6	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°	7584.7	100.0
0°-180°	7584.7	100.0

**Coefficient of Utilization**



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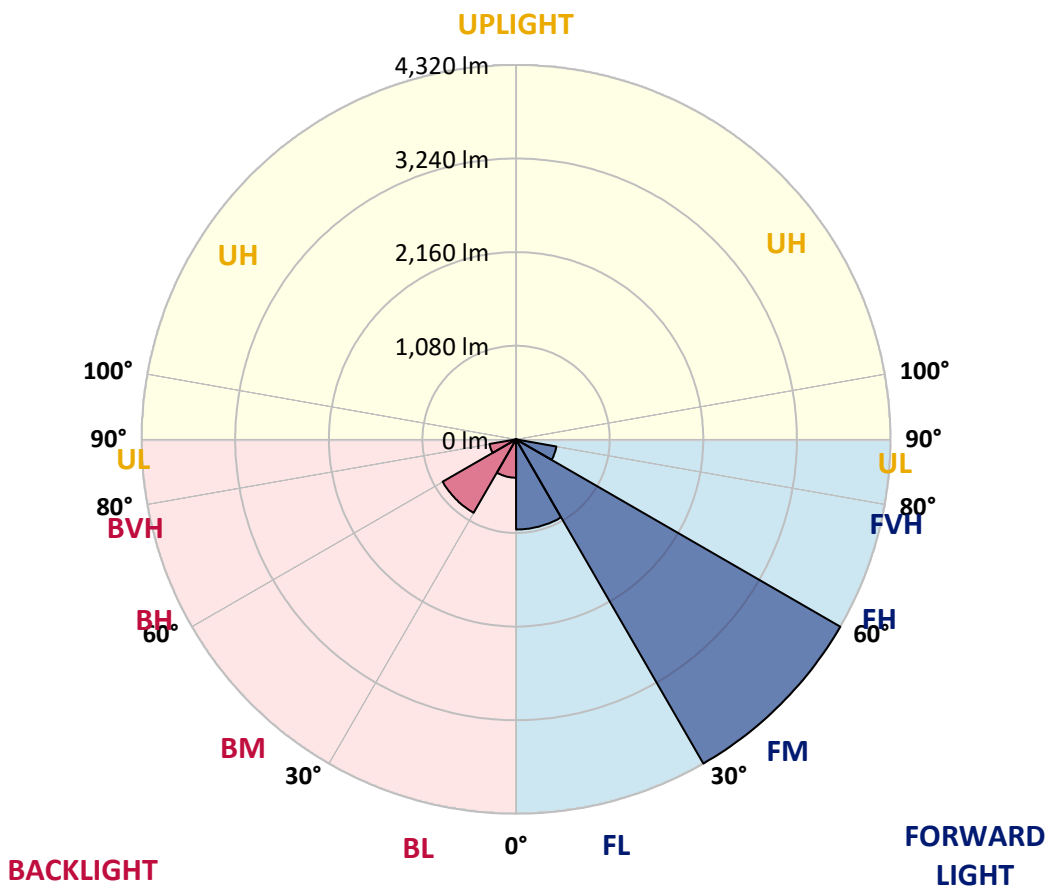
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1040.0	13.7			
FM (30°-60°)	4320.3	57.0			
FH (60°-80°)	472.4	6.2			G0/660
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	443.0	5.8	B1/500		
BM (30°-60°)	978.9	12.9	B1/1000		
BH (60°-80°)	311.4	4.1	B1/500		G1/500
BVH (80°-90°)	11.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1
2.5°	1488.9	1500.1	1482.8	1484.0	1440.7	1421.0	1365.4	1332.6	1311.0	1250.5	1195.5
5°	1789.2	1776.2	1762.6	1754.6	1716.9	1663.8	1594.6	1539.6	1488.9	1370.3	1256.0
7.5°	1973.3	1966.5	1957.2	1952.3	1915.2	1859.6	1790.4	1743.5	1670.0	1509.3	1329.5
10°	2129.6	2121.6	2116.0	2119.7	2089.4	2053.6	1978.2	1924.5	1841.7	1656.4	1418.5
12.5°	2250.7	2255.0	2256.9	2276.6	2263.7	2242.1	2164.2	2107.4	2015.3	1811.4	1522.9
15°	2346.5	2345.2	2366.8	2404.5	2425.5	2411.9	2349.6	2302.0	2189.5	1964.0	1635.4
17.5°	2368.7	2369.9	2403.9	2470.0	2538.6	2572.0	2536.7	2479.9	2368.7	2114.8	1752.1
20°	2386.6	2389.1	2424.3	2499.7	2599.8	2693.1	2698.6	2657.8	2562.1	2277.9	1870.7
22.5°	2499.7	2505.2	2514.5	2562.1	2652.3	2770.3	2835.2	2826.5	2746.2	2449.0	1998.6
25°	2796.8	2780.2	2735.1	2721.5	2756.1	2851.8	2962.4	2979.1	2939.6	2637.5	2136.4
27.5°	3163.8	3145.9	3079.2	3008.8	2934.0	2967.4	3085.4	3135.4	3136.0	2845.0	2274.8
30°	3496.8	3482.6	3428.3	3327.6	3198.4	3150.2	3237.3	3304.7	3344.8	3084.7	2432.3
32.5°	3781.6	3768.7	3695.2	3613.0	3486.9	3390.0	3421.5	3486.3	3580.2	3394.9	2628.2
35°	4021.4	4008.4	3938.0	3855.2	3738.4	3680.3	3669.2	3713.7	3835.4	3718.6	2853.1
37.5°	4216.0	4203.0	4129.5	4051.6	3962.7	3966.4	3983.1	4004.7	4074.5	4065.2	3093.4
40°	4342.0	4328.4	4275.9	4220.3	4164.1	4208.6	4291.3	4265.4	4302.5	4345.1	3314.6
42.5°	4398.2	4380.9	4350.7	4338.3	4321.0	4390.2	4549.6	4523.6	4479.2	4531.7	3478.9
45°	4342.0	4327.2	4326.6	4364.2	4404.4	4493.4	4728.1	4707.1	4594.7	4621.9	3577.1
47.5°	4169.6	4156.7	4191.9	4290.7	4389.6	4519.3	4807.8	4811.5	4676.9	4659.6	3640.8
50°	3797.1	3788.4	3890.4	4077.6	4248.1	4438.4	4782.5	4825.1	4696.6	4647.8	3632.8
52.5°	3039.6	3079.8	3301.6	3614.2	3945.4	4296.3	4688.6	4744.2	4601.5	4570.6	3589.5
55°	2080.8	2099.3	2321.1	2777.7	3302.8	3988.6	4473.0	4558.9	4489.0	4557.6	3634.6
57.5°	1077.5	1092.3	1267.1	1672.4	2240.2	3152.1	3874.3	4156.0	4262.3	4623.1	3774.8
60°	442.4	454.7	527.0	722.8	1130.0	1835.5	2788.2	3205.8	3455.4	4222.1	3352.3
62.5°	321.3	327.4	362.0	431.2	591.9	899.5	1577.9	1731.7	1907.2	2646.1	2128.4
65°	270.6	277.4	305.2	347.2	431.9	551.7	674.0	677.7	746.9	1078.1	788.9
67.5°	226.7	232.9	257.6	293.5	349.1	391.7	362.0	362.7	361.4	391.1	378.1
70°	176.7	181.6	206.4	244.7	273.7	251.5	283.0	313.2	300.3	312.0	329.9
72.5°	129.1	134.7	156.3	185.3	177.9	179.2	229.2	260.1	252.7	265.7	282.3
75°	93.3	97.0	108.1	92.7	97.6	118.0	161.2	177.9	185.3	196.5	211.3
77.5°	30.3	30.3	34.0	42.6	53.1	65.5	82.2	89.0	100.1	112.4	122.9
80°	15.4	16.1	19.2	23.5	29.7	37.7	48.2	51.3	56.8	63.6	68.0
82.5°	7.4	8.0	9.3	11.7	15.4	19.8	26.6	29.7	33.4	37.7	40.8
85°	1.9	1.9	2.5	3.7	4.9	7.4	9.9	11.7	14.8	17.9	19.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.9	2.5	3.1	3.7	4.9
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°	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1	1149.1
2.5°	1170.8	1136.2	1091.7	1054.0	1019.4	992.8	970.0	958.8	948.3	940.9	943.4
5°	1202.9	1143.6	1060.8	1003.3	968.1	950.2	937.8	931.7	930.4	925.5	923.6
7.5°	1249.8	1165.2	1054.6	996.5	973.1	963.8	957.0	953.3	955.1	950.2	948.3
10°	1307.9	1201.0	1070.1	1018.8	998.4	991.6	984.2	979.2	976.8	969.4	968.1
12.5°	1380.2	1245.5	1097.9	1047.2	1026.8	1015.1	1005.2	996.5	991.0	981.7	979.2
15°	1458.0	1294.9	1130.6	1075.0	1050.9	1033.6	1017.5	1004.6	994.7	982.3	980.5
17.5°	1542.7	1346.8	1157.8	1094.2	1063.3	1040.4	1016.9	997.8	984.2	968.1	966.3
20°	1631.0	1399.4	1178.2	1103.4	1063.9	1033.0	1001.5	976.1	958.8	942.8	941.5
22.5°	1722.5	1447.5	1190.5	1100.9	1054.0	1015.7	978.0	949.6	929.2	910.0	908.8
25°	1814.5	1493.9	1193.6	1091.1	1034.2	989.7	952.1	918.7	895.8	874.2	871.7
27.5°	1907.8	1532.8	1186.2	1071.3	1007.7	959.5	921.8	889.0	865.6	843.9	840.2
30°	2007.3	1566.2	1170.1	1045.3	976.8	927.3	890.3	865.6	843.3	821.7	818.0
32.5°	2113.5	1595.2	1147.3	1013.8	940.9	895.2	868.0	845.8	823.5	804.4	800.7
35°	2240.2	1614.4	1113.3	973.1	907.6	871.7	853.2	827.3	800.1	779.1	777.2
37.5°	2371.2	1629.2	1072.5	934.1	878.5	858.1	842.7	807.5	773.5	748.2	745.1
40°	2497.8	1641.5	1021.9	897.7	852.0	848.3	827.3	783.4	724.7	696.3	693.8
42.5°	2615.8	1645.2	968.7	858.8	827.9	826.0	802.5	734.6	689.5	671.6	669.1
45°	2696.8	1642.2	913.7	822.3	803.8	793.9	769.2	699.4	671.6	655.5	652.4
47.5°	2756.7	1626.1	852.0	784.0	776.6	763.0	709.9	677.1	651.2	635.1	632.0
50°	2746.2	1559.4	789.6	746.9	743.8	732.1	666.6	649.3	626.5	609.2	606.7
52.5°	2691.8	1432.7	725.9	706.2	712.3	689.5	635.7	616.0	596.2	576.4	572.1
55°	2705.4	1341.3	677.7	666.6	677.7	625.8	601.1	580.1	561.6	542.4	538.7
57.5°	2764.7	1251.1	626.5	624.0	635.7	577.0	556.7	530.1	503.5	488.1	488.1
60°	2321.7	911.9	536.3	542.4	569.0	537.5	519.6	492.4	463.4	449.8	449.8
62.5°	1372.8	572.1	444.8	438.0	454.7	474.5	484.4	462.1	427.5	409.6	410.2
65°	604.8	416.4	392.3	386.8	381.8	395.4	422.6	424.4	388.0	367.0	367.6
67.5°	372.5	376.9	367.0	362.7	358.3	355.9	353.4	354.6	344.7	325.6	325.0
70°	336.1	347.8	341.0	337.3	331.8	327.4	312.6	288.5	271.8	266.9	272.5
72.5°	289.1	305.2	301.5	299.6	292.8	282.3	262.6	239.1	219.3	207.0	209.4
75°	218.1	231.1	232.9	233.5	226.1	216.2	195.8	176.1	158.8	145.8	148.9
77.5°	125.4	132.8	134.7	136.5	131.0	127.3	113.7	99.5	90.2	76.6	80.3
80°	69.8	72.9	72.9	73.5	70.4	66.1	56.8	48.8	44.5	38.3	38.9
82.5°	42.0	43.2	43.9	44.5	42.6	38.3	31.5	25.9	23.5	20.4	19.8
85°	20.4	21.6	21.6	22.2	19.2	16.7	13.0	9.9	8.6	6.2	6.8
87.5°	4.9	5.6	5.6	4.9	4.3	3.1	1.9	0.6	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)