

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: P632443

Luminaire Tested: GWS-SA2C-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632443  
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-SA2C-760-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

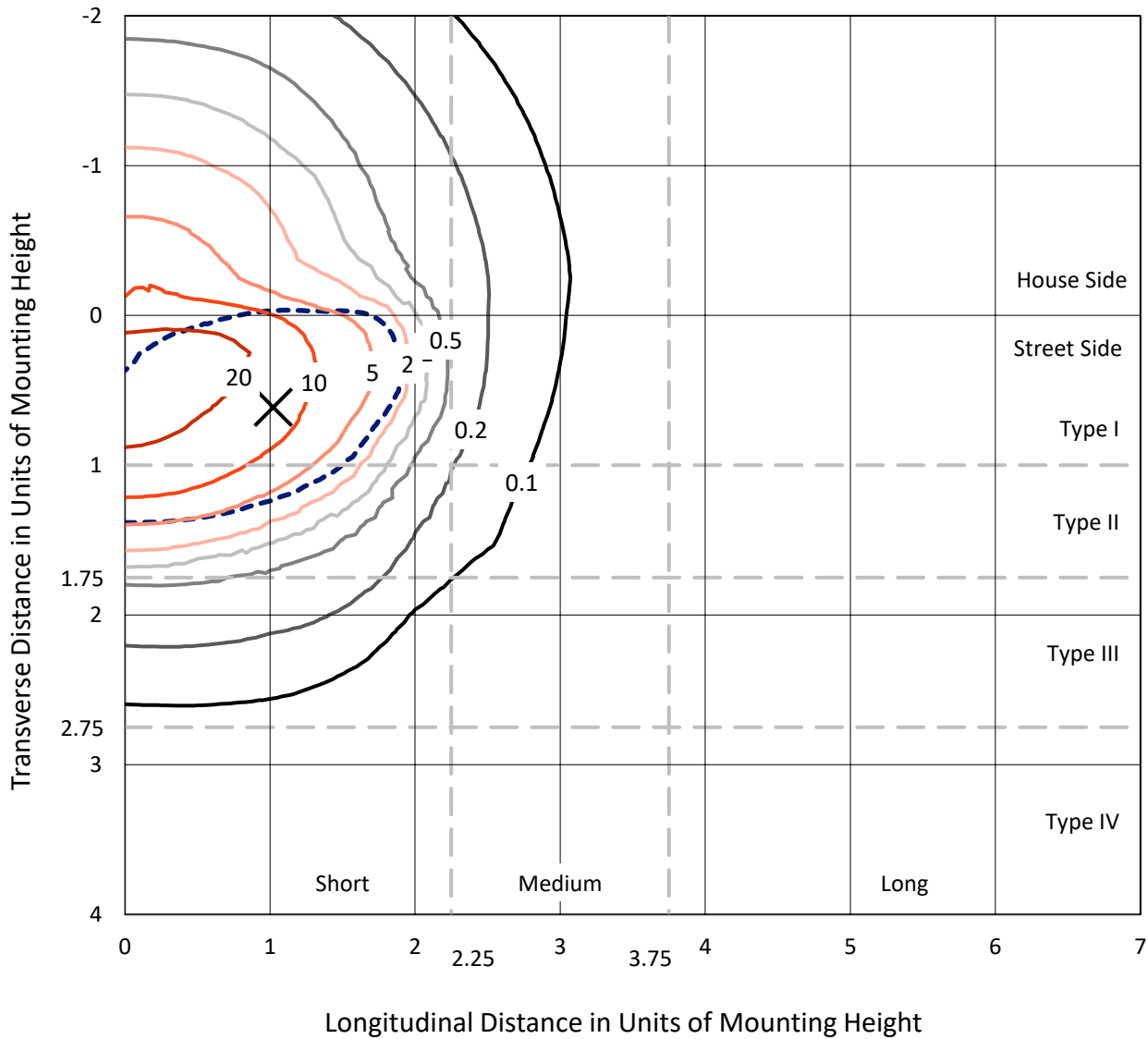
Lumens per Lamp: N/A  
Luminaire Lumens: 8218.1 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

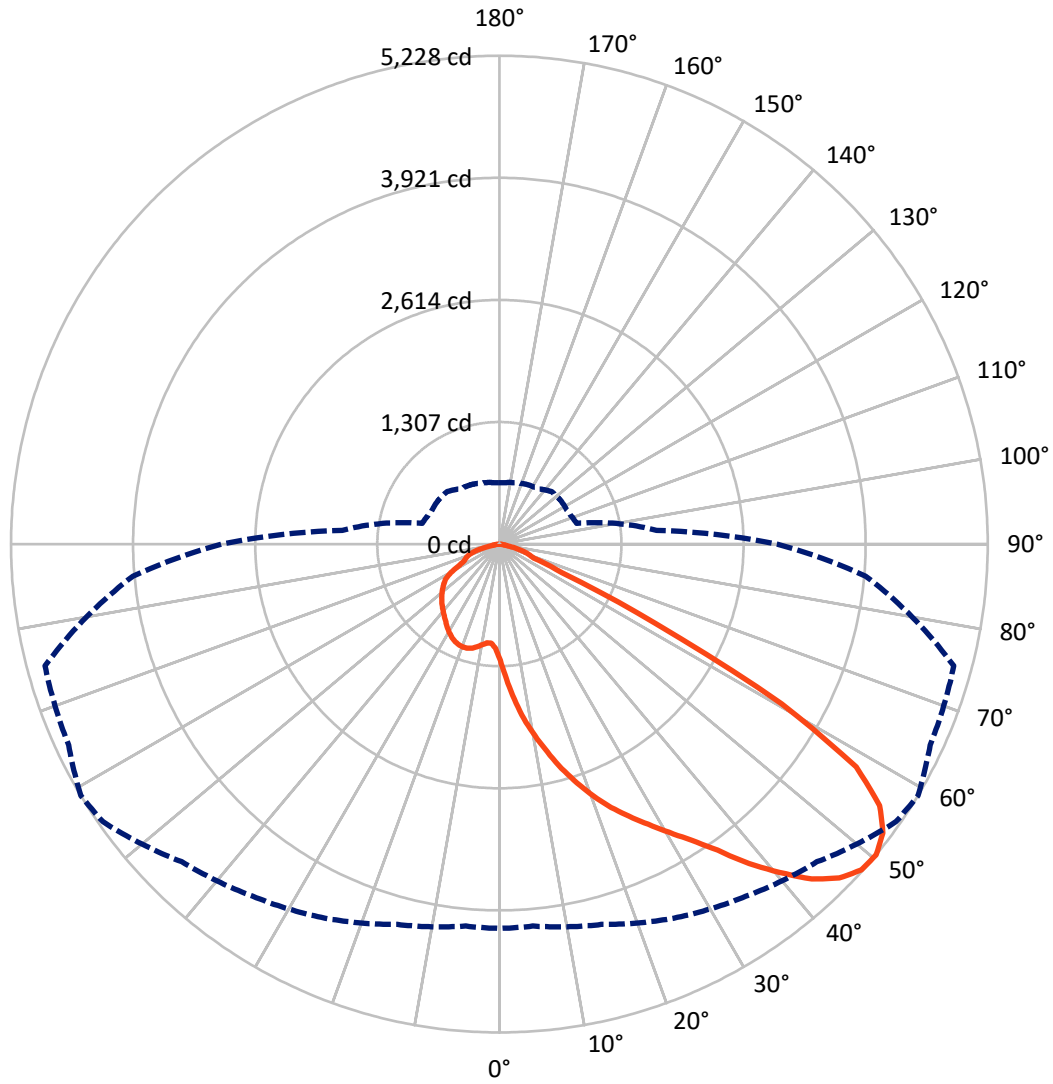
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.6 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	1890.3	0.0	1890.3
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	6327.8	0.0	6327.8
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	8218.1	0.0	8218.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	1.7
10°-20°	507.1	6.2
20°-30°	960.2	11.7
30°-40°	1592.3	19.4
40°-50°	2175.1	26.5
50°-60°	1974.4	24.0
60°-70°	657.5	8.0
70°-80°	191.8	2.3
80°-90°	20.1	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°	8218.1	100.0
0°-180°	8218.1	100.0

**Coefficient of Utilization**



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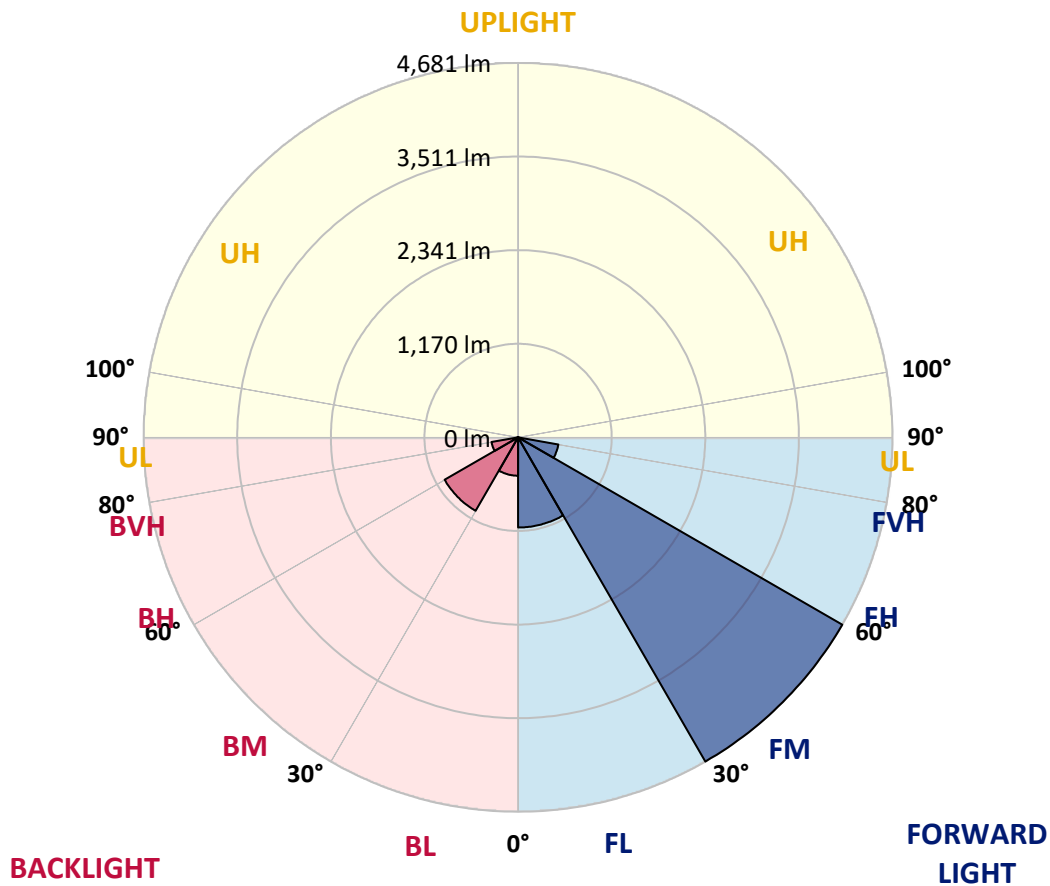
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.9	13.7			
FM (30°-60°)	4681.1	57.0			
FH (60°-80°)	511.9	6.2			G0/660
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	480.0	5.8	B1/500		
BM (30°-60°)	1060.7	12.9	B2/2500		
BH (60°-80°)	337.4	4.1	B1/500		G1/500
BVH (80°-90°)	12.3	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°	55°	59°	65°	75°	85°
0°	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1
2.5°	1613.3	1625.3	1606.6	1607.9	1561.1	1539.6	1479.4	1443.9	1420.5	1354.9	1295.3
5°	1938.6	1924.6	1909.8	1901.1	1860.3	1802.7	1727.7	1668.2	1613.3	1484.7	1360.9
7.5°	2138.1	2130.7	2120.7	2115.3	2075.2	2014.9	1939.9	1889.1	1809.4	1635.4	1440.6
10°	2307.5	2298.7	2292.7	2296.7	2263.9	2225.1	2143.4	2085.2	1995.5	1794.7	1537.0
12.5°	2438.7	2443.3	2445.4	2466.8	2452.7	2429.3	2344.9	2283.4	2183.6	1962.7	1650.1
15°	2542.4	2541.1	2564.5	2605.3	2628.1	2613.4	2545.8	2494.2	2372.4	2128.1	1771.9
17.5°	2566.5	2567.9	2604.7	2676.3	2750.6	2786.7	2748.6	2687.0	2566.5	2291.4	1898.4
20°	2585.9	2588.6	2626.8	2708.4	2816.9	2918.0	2924.0	2879.8	2776.0	2468.1	2027.0
22.5°	2708.4	2714.5	2724.5	2776.0	2873.8	3001.6	3071.9	3062.5	2975.5	2653.5	2165.5
25°	3030.4	3012.3	2963.5	2948.7	2986.2	3090.0	3209.8	3227.9	3185.0	2857.7	2314.8
27.5°	3428.0	3408.6	3336.3	3260.0	3179.0	3215.2	3343.0	3397.2	3397.9	3082.6	2464.8
30°	3788.9	3773.5	3714.5	3605.4	3465.5	3413.3	3507.7	3580.7	3624.2	3342.4	2635.5
32.5°	4097.5	4083.4	4003.7	3914.7	3778.1	3673.0	3707.2	3777.5	3879.2	3678.4	2847.7
35°	4357.2	4343.1	4266.8	4177.1	4050.6	3987.7	3975.6	4023.8	4155.7	4029.2	3091.3
37.5°	4568.0	4554.0	4474.3	4390.0	4293.6	4297.6	4315.7	4339.1	4414.8	4404.7	3351.7
40°	4704.6	4689.9	4633.0	4572.7	4511.8	4560.0	4649.7	4621.6	4661.8	4708.0	3591.4
42.5°	4765.5	4746.8	4714.0	4700.6	4681.8	4756.8	4929.5	4901.4	4853.2	4910.1	3769.4
45°	4704.6	4688.5	4687.9	4728.7	4772.2	4868.6	5123.0	5100.2	4978.4	5007.8	3875.9
47.5°	4517.8	4503.8	4541.9	4649.0	4756.1	4896.7	5209.3	5213.4	5067.4	5048.7	3944.8
50°	4114.2	4104.8	4215.3	4418.1	4602.9	4809.0	5181.9	5228.1	5088.8	5036.0	3936.1
52.5°	3293.5	3337.0	3577.3	3916.0	4274.8	4655.1	5080.1	5140.4	4985.8	4952.3	3889.3
55°	2254.6	2274.7	2515.0	3009.7	3578.7	4321.7	4846.5	4939.6	4863.9	4938.2	3938.1
57.5°	1167.4	1183.5	1373.0	1812.1	2427.3	3415.3	4197.9	4503.1	4618.3	5009.2	4090.1
60°	479.3	492.7	571.0	783.2	1224.3	1988.8	3021.0	3473.6	3744.0	4574.7	3632.2
62.5°	348.1	354.8	392.3	467.2	641.3	974.7	1709.7	1876.4	2066.5	2867.1	2306.1
65°	293.2	300.6	330.7	376.2	467.9	597.8	730.3	734.3	809.3	1168.1	854.8
67.5°	245.7	252.4	279.1	318.0	378.2	424.4	392.3	392.9	391.6	423.7	409.7
70°	191.5	196.8	223.6	265.1	296.5	272.4	306.6	339.4	325.3	338.1	357.5
72.5°	139.9	145.9	169.4	200.8	192.8	194.1	248.4	281.8	273.8	287.8	305.9
75°	101.1	105.1	117.1	100.4	105.8	127.9	174.7	192.8	200.8	212.9	228.9
77.5°	32.8	32.8	36.8	46.2	57.6	71.0	89.0	96.4	108.4	121.8	133.2
80°	16.7	17.4	20.8	25.4	32.1	40.8	52.2	55.6	61.6	68.9	73.6
82.5°	8.0	8.7	10.0	12.7	16.7	21.4	28.8	32.1	36.1	40.8	44.2
85°	2.0	2.0	2.7	4.0	5.4	8.0	10.7	12.7	16.1	19.4	21.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.7	3.3	4.0	5.4
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°	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1
2.5°	1268.5	1231.0	1182.8	1142.0	1104.5	1075.7	1051.0	1038.9	1027.5	1019.5	1022.2
5°	1303.3	1239.1	1149.4	1087.1	1049.0	1029.6	1016.2	1009.5	1008.1	1002.8	1000.8
7.5°	1354.2	1262.5	1142.7	1079.8	1054.3	1044.3	1036.9	1032.9	1034.9	1029.6	1027.5
10°	1417.1	1301.3	1159.4	1103.9	1081.8	1074.4	1066.4	1061.0	1058.3	1050.3	1049.0
12.5°	1495.5	1349.5	1189.5	1134.6	1112.6	1099.8	1089.1	1079.8	1073.7	1063.7	1061.0
15°	1579.8	1403.1	1225.0	1164.8	1138.7	1119.9	1102.5	1088.5	1077.7	1064.4	1062.4
17.5°	1671.5	1459.3	1254.5	1185.5	1152.1	1127.3	1101.8	1081.1	1066.4	1049.0	1047.0
20°	1767.2	1516.2	1276.6	1195.6	1152.7	1119.3	1085.1	1057.7	1038.9	1021.5	1020.2
22.5°	1866.3	1568.4	1290.0	1192.9	1142.0	1100.5	1059.7	1028.9	1006.8	986.0	984.7
25°	1966.1	1618.6	1293.3	1182.2	1120.6	1072.4	1031.6	995.4	970.6	947.2	944.5
27.5°	2067.1	1660.8	1285.3	1160.8	1091.8	1039.6	998.8	963.3	937.8	914.4	910.4
30°	2174.9	1697.0	1267.9	1132.6	1058.3	1004.8	964.6	937.8	913.7	890.3	886.3
32.5°	2290.0	1728.4	1243.1	1098.5	1019.5	970.0	940.5	916.4	892.3	871.6	867.6
35°	2427.3	1749.2	1206.3	1054.3	983.4	944.5	924.5	896.3	866.9	844.1	842.1
37.5°	2569.2	1765.2	1162.1	1012.1	951.9	929.8	913.1	874.9	838.1	810.7	807.3
40°	2706.4	1778.6	1107.2	972.7	923.1	919.1	896.3	848.8	785.2	754.4	751.7
42.5°	2834.3	1782.6	1049.6	930.5	897.0	895.0	869.6	795.9	747.1	727.6	725.0
45°	2922.0	1779.3	990.1	891.0	870.9	860.2	833.4	757.8	727.6	710.2	706.9
47.5°	2986.9	1761.9	923.1	849.5	841.4	826.7	769.2	733.7	705.6	688.2	684.8
50°	2975.5	1689.6	855.5	809.3	806.0	793.2	722.3	703.5	678.8	660.0	657.4
52.5°	2916.6	1552.4	786.6	765.1	771.8	747.1	688.8	667.4	646.0	624.6	619.9
55°	2931.3	1453.3	734.3	722.3	734.3	678.1	651.3	628.6	608.5	587.7	583.7
57.5°	2995.6	1355.6	678.8	676.1	688.8	625.2	603.1	574.4	545.6	528.8	528.8
60°	2515.6	988.0	581.0	587.7	616.5	582.4	563.0	533.5	502.1	487.3	487.3
62.5°	1487.4	619.9	482.0	474.6	492.7	514.1	524.8	500.7	463.2	443.8	444.5
65°	655.4	451.2	425.1	419.0	413.7	428.4	457.9	459.9	420.4	397.6	398.3
67.5°	403.7	408.3	397.6	392.9	388.3	385.6	382.9	384.2	373.5	352.8	352.1
70°	364.2	376.9	369.5	365.5	359.5	354.8	338.7	312.6	294.5	289.2	295.2
72.5°	313.3	330.7	326.7	324.7	317.3	305.9	284.5	259.1	237.6	224.3	226.9
75°	236.3	250.4	252.4	253.0	245.0	234.3	212.2	190.8	172.0	158.0	161.3
77.5°	135.9	143.9	145.9	147.9	141.9	137.9	123.2	107.8	97.7	83.0	87.0
80°	75.6	79.0	79.0	79.7	76.3	71.6	61.6	52.9	48.2	41.5	42.2
82.5°	45.5	46.9	47.5	48.2	46.2	41.5	34.1	28.1	25.4	22.1	21.4
85°	22.1	23.4	23.4	24.1	20.8	18.1	14.1	10.7	9.4	6.7	7.4
87.5°	5.4	6.0	6.0	5.4	4.7	3.3	2.0	0.7	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)