

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: P633598

Luminaire Tested: GWS-SA2F-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633598  
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-SA2F-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

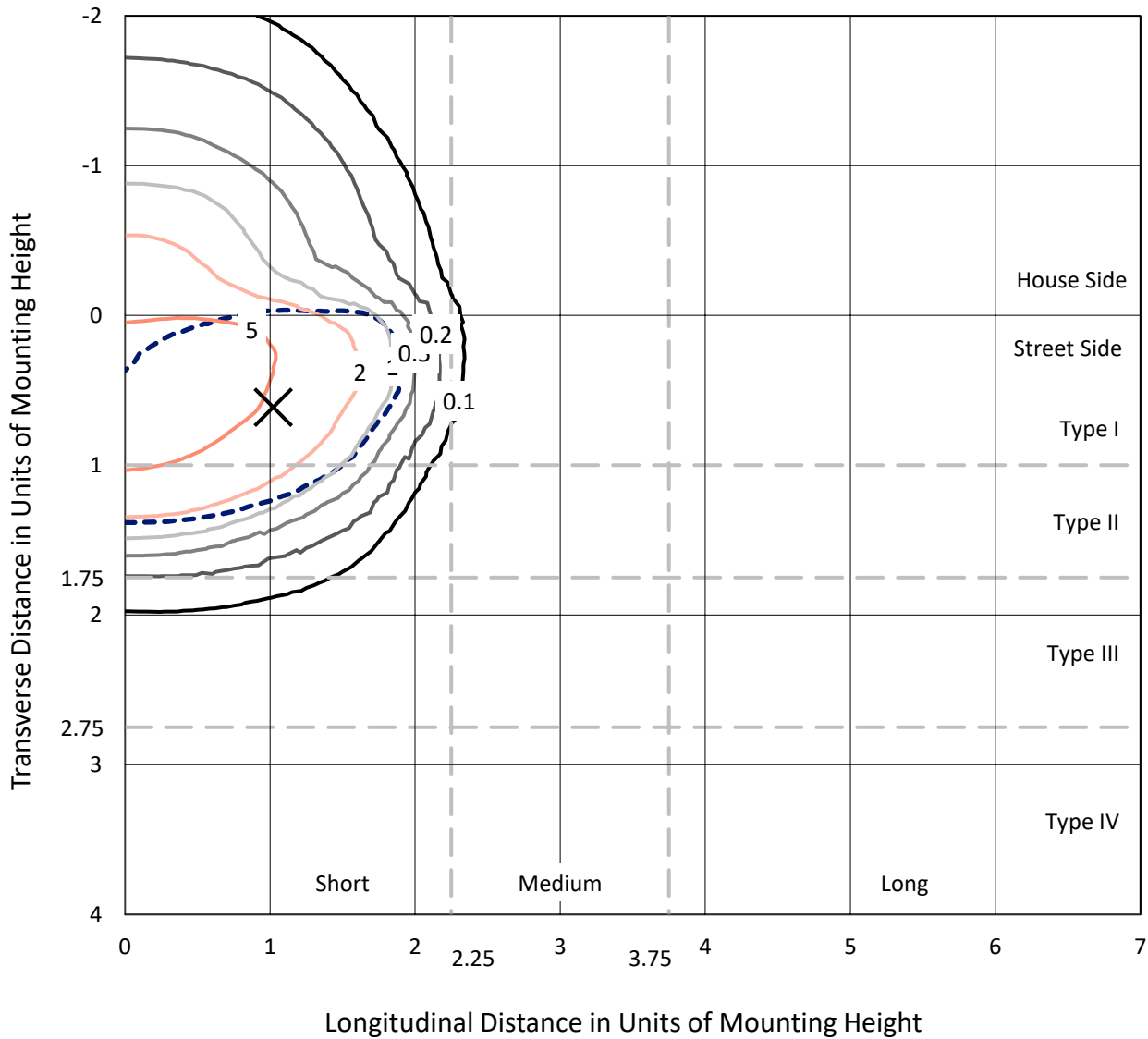
Lumens per Lamp: N/A  
Luminaire Lumens: 10516.8 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

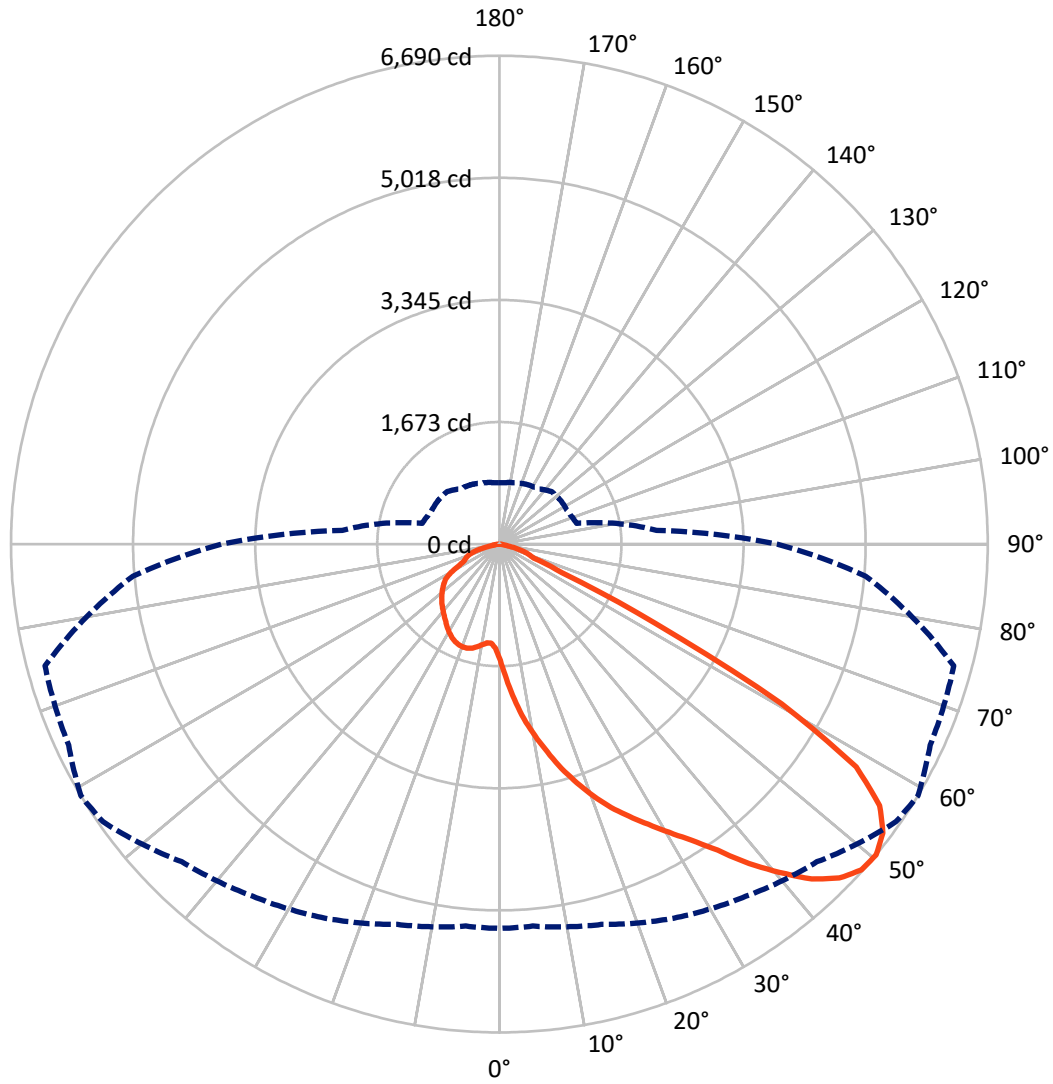
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 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	2419.1	0.0	2419.1
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	8097.7	0.0	8097.7
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	10516.8	0.0	10516.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.7	1.7
10°-20°	648.9	6.2
20°-30°	1228.7	11.7
30°-40°	2037.6	19.4
40°-50°	2783.5	26.5
50°-60°	2526.7	24.0
60°-70°	841.4	8.0
70°-80°	245.4	2.3
80°-90°	25.8	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°	10516.8	100.0
0°-180°	10516.8	100.0

**Coefficient of Utilization**



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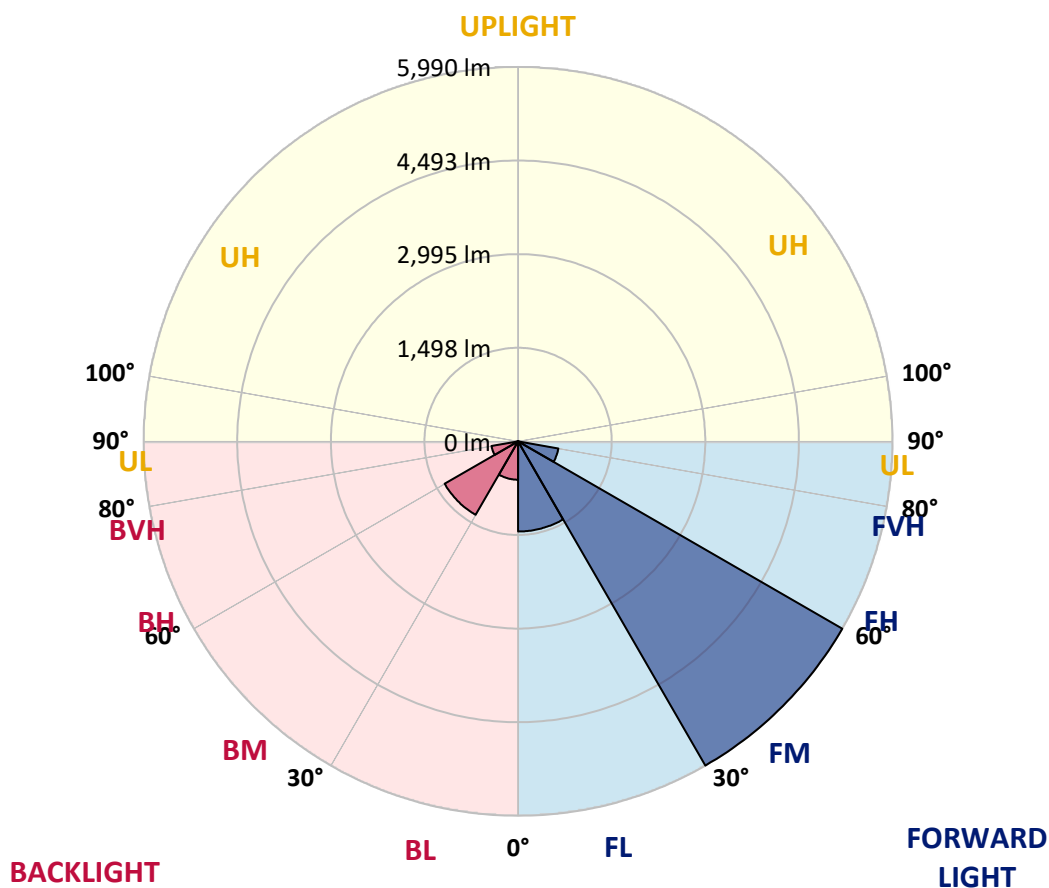
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.1	13.7			
FM (30°-60°)	5990.5	57.0			
FH (60°-80°)	655.0	6.2			G0/660
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	614.3	5.8	B2/1000		
BM (30°-60°)	1357.3	12.9	B2/2500		
BH (60°-80°)	431.8	4.1	B1/500		G1/500
BVH (80°-90°)	15.7	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°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4
2.5°	2064.5	2079.9	2056.0	2057.7	1997.7	1970.3	1893.2	1847.8	1817.8	1733.9	1657.6
5°	2480.9	2462.9	2444.0	2432.9	2380.6	2307.0	2211.0	2134.8	2064.5	1900.1	1741.6
7.5°	2736.1	2726.7	2713.9	2707.0	2655.6	2578.5	2482.6	2417.5	2315.5	2092.8	1843.5
10°	2952.9	2941.7	2934.0	2939.2	2897.2	2847.5	2743.0	2668.5	2553.7	2296.7	1966.9
12.5°	3120.8	3126.8	3129.3	3156.8	3138.8	3108.8	3000.8	2922.0	2794.4	2511.7	2111.6
15°	3253.6	3251.8	3281.8	3334.1	3363.2	3344.4	3257.8	3191.9	3036.0	2723.3	2267.6
17.5°	3284.4	3286.1	3333.2	3424.9	3520.0	3566.2	3517.4	3438.6	3284.4	2932.3	2429.5
20°	3309.2	3312.7	3361.5	3466.0	3604.8	3734.1	3741.8	3685.3	3552.5	3158.5	2593.9
22.5°	3466.0	3473.7	3486.6	3552.5	3677.6	3841.2	3931.2	3919.2	3807.8	3395.8	2771.3
25°	3878.1	3854.9	3792.4	3773.5	3821.5	3954.3	4107.6	4130.8	4075.9	3657.0	2962.3
27.5°	4386.9	4362.1	4269.5	4171.9	4068.2	4114.5	4278.1	4347.5	4348.4	3944.9	3154.2
30°	4848.6	4828.9	4753.6	4613.9	4434.9	4368.1	4488.8	4582.2	4637.9	4277.3	3372.6
32.5°	5243.6	5225.6	5123.6	5009.7	4834.9	4700.4	4744.1	4834.1	4964.3	4707.3	3644.2
35°	5575.9	5557.9	5460.3	5345.5	5183.6	5103.1	5087.6	5149.3	5318.1	5156.2	3956.0
37.5°	5845.8	5827.8	5725.9	5617.9	5494.6	5499.7	5522.8	5552.8	5649.6	5636.8	4289.2
40°	6020.5	6001.7	5928.9	5851.8	5773.8	5835.5	5950.3	5914.3	5965.7	6024.8	4595.9
42.5°	6098.5	6074.5	6032.5	6015.4	5991.4	6087.4	6308.4	6272.4	6210.7	6283.5	4823.8
45°	6020.5	6000.0	5999.1	6051.4	6107.1	6230.4	6555.9	6526.8	6370.9	6408.6	4960.0
47.5°	5781.5	5763.5	5812.4	5949.4	6086.5	6266.4	6666.5	6671.6	6484.8	6460.9	5048.2
50°	5265.0	5253.0	5394.3	5653.9	5890.3	6154.2	6631.3	6690.4	6512.3	6444.6	5037.1
52.5°	4214.7	4270.4	4577.9	5011.4	5470.6	5957.1	6501.1	6578.2	6380.3	6337.5	4977.1
55°	2885.2	2910.9	3218.4	3851.5	4579.7	5530.5	6202.1	6321.2	6224.4	6319.5	5039.7
57.5°	1494.0	1514.6	1757.0	2319.0	3106.2	4370.6	5372.1	5762.7	5910.0	6410.3	5234.1
60°	613.4	630.5	730.7	1002.3	1566.8	2545.1	3866.1	4445.2	4791.2	5854.3	4648.2
62.5°	445.5	454.0	502.0	597.9	820.7	1247.3	2187.9	2401.2	2644.5	3669.0	2951.2
65°	375.2	384.6	423.2	481.4	598.8	765.0	934.6	939.7	1035.7	1494.9	1093.9
67.5°	314.4	323.0	357.2	406.9	484.0	543.1	502.0	502.9	501.1	542.3	524.3
70°	245.0	251.9	286.1	339.2	379.5	348.7	392.3	434.3	416.3	432.6	457.5
72.5°	179.0	186.7	216.7	257.0	246.7	248.4	317.8	360.6	350.4	368.4	391.5
75°	129.4	134.5	149.9	128.5	135.4	163.6	223.6	246.7	257.0	272.4	293.0
77.5°	42.0	42.0	47.1	59.1	73.7	90.8	113.9	123.4	138.8	155.9	170.5
80°	21.4	22.3	26.6	32.6	41.1	52.3	66.8	71.1	78.8	88.2	94.2
82.5°	10.3	11.1	12.8	16.3	21.4	27.4	36.8	41.1	46.3	52.3	56.5
85°	2.6	2.6	3.4	5.1	6.9	10.3	13.7	16.3	20.6	24.8	27.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	2.6	3.4	4.3	5.1	6.9
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°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4
2.5°	1623.4	1575.4	1513.7	1461.4	1413.5	1376.6	1344.9	1329.5	1315.0	1304.7	1308.1
5°	1667.9	1585.7	1470.9	1391.2	1342.4	1317.5	1300.4	1291.8	1290.1	1283.3	1280.7
7.5°	1733.0	1615.6	1462.3	1381.8	1349.2	1336.4	1327.0	1321.8	1324.4	1317.5	1315.0
10°	1813.5	1665.3	1483.7	1412.6	1384.3	1374.9	1364.6	1357.8	1354.4	1344.1	1342.4
12.5°	1913.8	1727.0	1522.3	1452.0	1423.8	1407.5	1393.8	1381.8	1374.1	1361.2	1357.8
15°	2021.7	1795.5	1567.7	1490.6	1457.2	1433.2	1410.9	1392.9	1379.2	1362.1	1359.5
17.5°	2139.1	1867.5	1605.4	1517.1	1474.3	1442.6	1410.0	1383.5	1364.6	1342.4	1339.8
20°	2261.6	1940.3	1633.6	1530.0	1475.2	1432.3	1388.6	1353.5	1329.5	1307.2	1305.5
22.5°	2388.3	2007.1	1650.8	1526.6	1461.4	1408.3	1356.1	1316.7	1288.4	1261.8	1260.1
25°	2516.0	2071.4	1655.0	1512.8	1434.0	1372.4	1320.1	1273.8	1242.1	1212.2	1208.7
27.5°	2645.3	2125.3	1644.8	1485.4	1397.2	1330.4	1278.1	1232.7	1200.2	1170.2	1165.0
30°	2783.3	2171.6	1622.5	1449.5	1354.4	1285.8	1234.4	1200.2	1169.3	1139.3	1134.2
32.5°	2930.6	2211.9	1590.8	1405.8	1304.7	1241.3	1203.6	1172.8	1141.9	1115.4	1110.2
35°	3106.2	2238.4	1543.7	1349.2	1258.4	1208.7	1183.0	1147.1	1109.4	1080.2	1077.7
37.5°	3287.8	2259.0	1487.1	1295.3	1218.2	1189.9	1168.5	1119.6	1072.5	1037.4	1033.1
40°	3463.4	2276.1	1416.9	1244.7	1181.3	1176.2	1147.1	1086.2	1004.9	965.4	962.0
42.5°	3627.1	2281.3	1343.2	1190.7	1147.9	1145.3	1112.8	1018.6	956.0	931.2	927.8
45°	3739.3	2277.0	1267.0	1140.2	1114.5	1100.8	1066.5	969.7	931.2	908.9	904.6
47.5°	3822.4	2254.7	1181.3	1087.1	1076.8	1058.0	984.3	938.9	902.9	880.6	876.4
50°	3807.8	2162.2	1094.8	1035.7	1031.4	1015.1	924.3	900.3	868.6	844.7	841.2
52.5°	3732.4	1986.6	1006.6	979.2	987.7	956.0	881.5	854.1	826.7	799.3	793.3
55°	3751.3	1859.8	939.7	924.3	939.7	867.8	833.5	804.4	778.7	752.1	747.0
57.5°	3833.5	1734.7	868.6	865.2	881.5	800.1	771.8	735.0	698.2	676.8	676.8
60°	3219.3	1264.4	743.6	752.1	789.0	745.3	720.4	682.8	642.5	623.6	623.6
62.5°	1903.5	793.3	616.8	607.4	630.5	657.9	671.6	640.8	592.8	568.0	568.8
65°	838.7	577.4	544.0	536.3	529.4	548.3	585.9	588.5	538.0	508.9	509.7
67.5°	516.6	522.6	508.9	502.9	496.9	493.4	490.0	491.7	478.0	451.5	450.6
70°	466.0	482.3	472.9	467.7	460.0	454.0	433.5	400.1	376.9	370.1	377.8
72.5°	400.9	423.2	418.0	415.5	406.1	391.5	364.1	331.5	304.1	287.0	290.4
75°	302.4	320.4	323.0	323.8	313.5	299.8	271.6	244.1	220.2	202.2	206.5
77.5°	173.9	184.2	186.7	189.3	181.6	176.5	157.6	137.9	125.1	106.2	111.4
80°	96.8	101.1	101.1	101.9	97.7	91.7	78.8	67.7	61.7	53.1	54.0
82.5°	58.3	60.0	60.8	61.7	59.1	53.1	43.7	36.0	32.6	28.3	27.4
85°	28.3	30.0	30.0	30.8	26.6	23.1	18.0	13.7	12.0	8.6	9.4
87.5°	6.9	7.7	7.7	6.9	6.0	4.3	2.6	0.9	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)