

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: P632828

Luminaire Tested: GWS-SA2D-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632828  
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-SA2D-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10276.2 lumens  
Efficiency: N/A  
Efficacy: 125.2 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): 82.1  
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

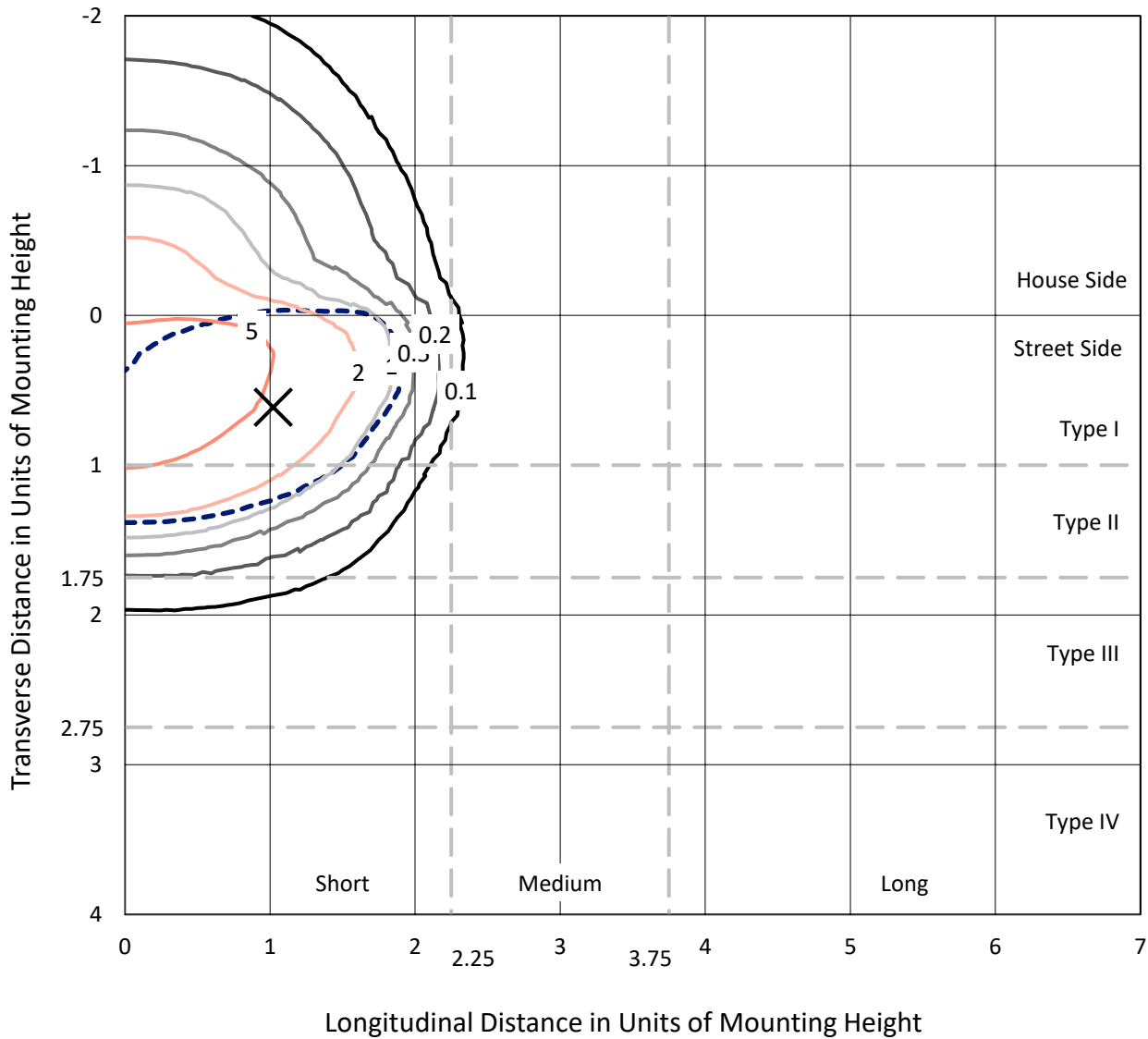


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### Iso-Footcandle Lines of Horizontal Illumination

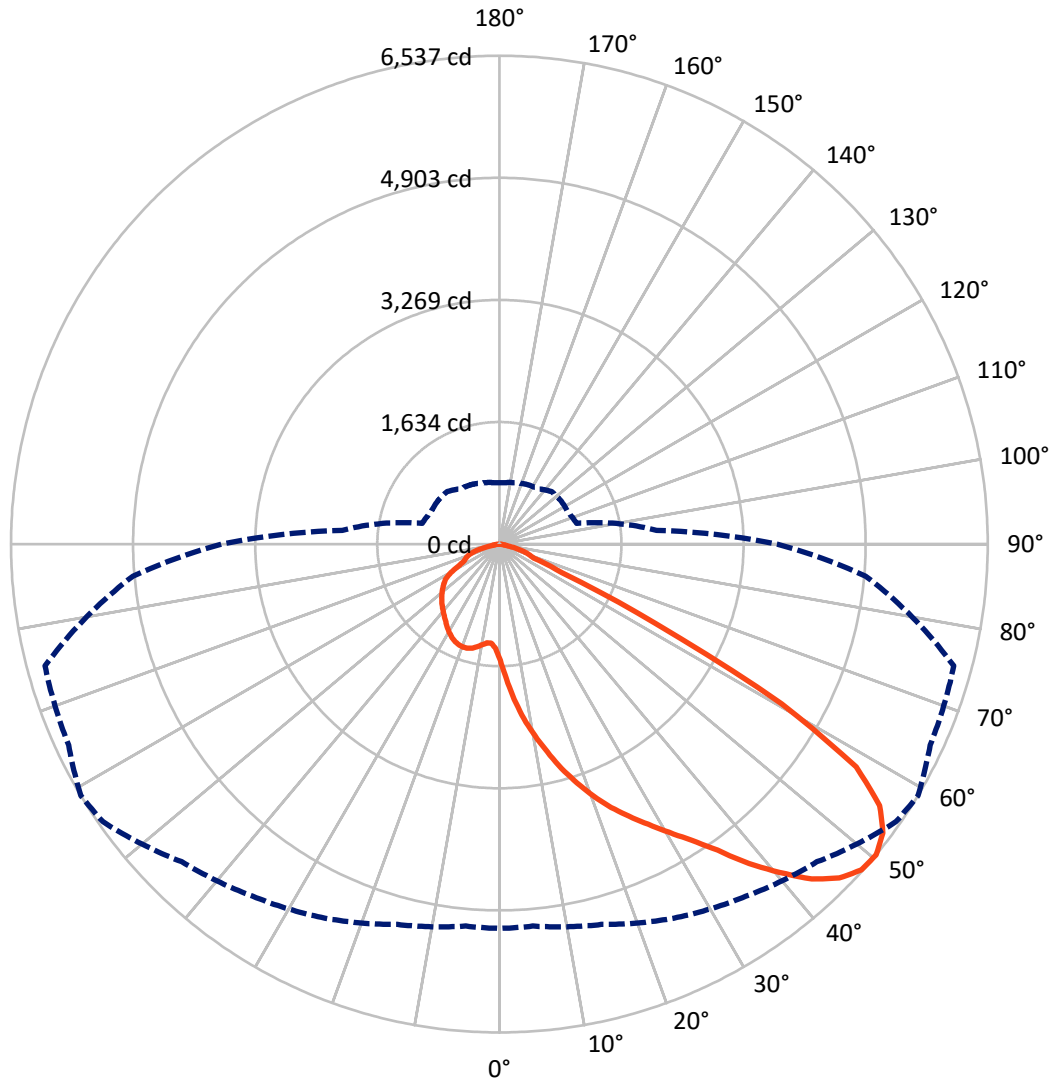
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 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	2363.7	0.0	2363.7
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	7912.5	0.0	7912.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	10276.2	0.0	10276.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.7	1.7
10°-20°	634.0	6.2
20°-30°	1200.6	11.7
30°-40°	1991.0	19.4
40°-50°	2719.8	26.5
50°-60°	2468.9	24.0
60°-70°	822.2	8.0
70°-80°	239.8	2.3
80°-90°	25.2	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°	10276.2	100.0
0°-180°	10276.2	100.0

**Coefficient of Utilization**



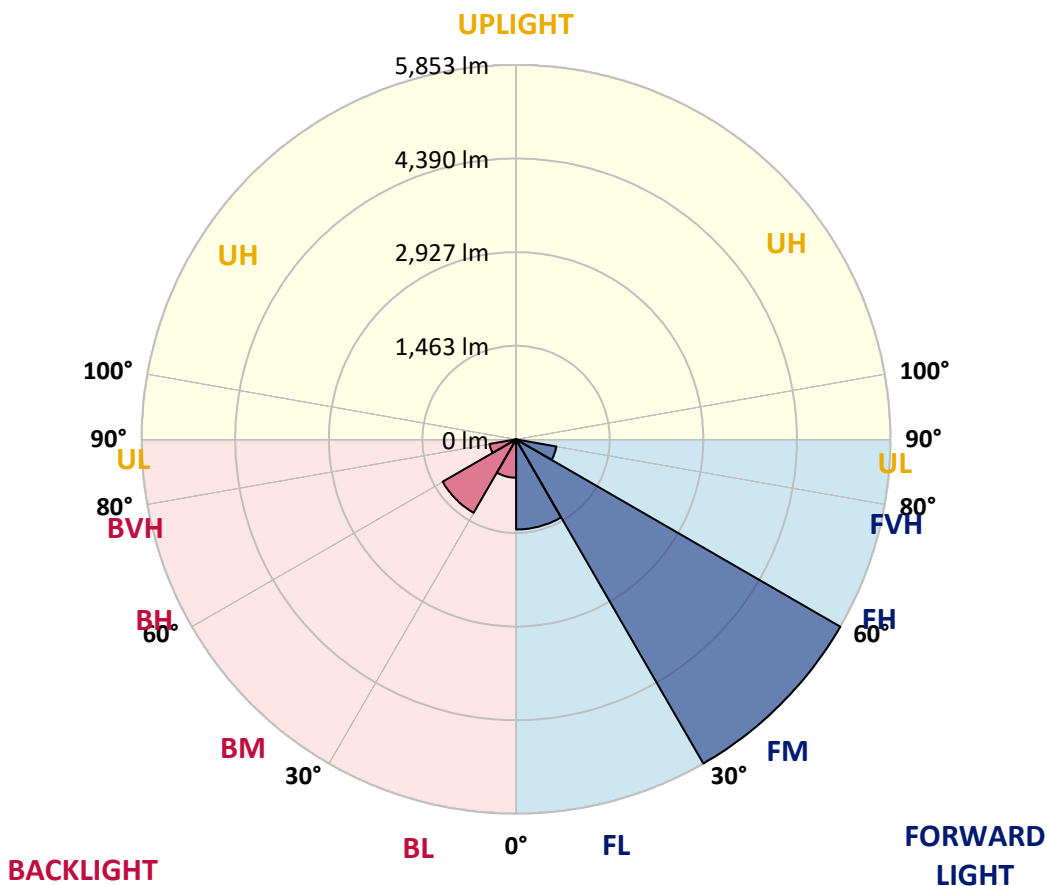
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1409.1	13.7			
FM (30°-60°)	5853.5	57.0			
FH (60°-80°)	640.1	6.2			G0/660
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	600.2	5.8	B2/1000		
BM (30°-60°)	1326.3	12.9	B2/2500		
BH (60°-80°)	421.9	4.1	B1/500		G1/500
BVH (80°-90°)	15.3	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°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	2017.3	2032.4	2008.9	2010.6	1952.0	1925.2	1849.9	1805.5	1776.2	1694.2	1619.7
5°	2424.1	2406.5	2388.1	2377.2	2326.2	2254.2	2160.4	2085.9	2017.3	1856.6	1701.7
7.5°	2673.5	2664.3	2651.8	2645.1	2594.9	2519.5	2425.8	2362.2	2262.6	2044.9	1801.3
10°	2885.3	2874.4	2866.9	2871.9	2830.9	2782.4	2680.2	2607.4	2495.3	2244.1	1921.9
12.5°	3049.4	3055.2	3057.8	3084.5	3067.0	3037.7	2932.2	2855.2	2730.5	2454.2	2063.3
15°	3179.1	3177.4	3206.7	3257.8	3286.3	3267.9	3183.3	3118.9	2966.5	2661.0	2215.7
17.5°	3209.3	3210.9	3257.0	3346.5	3439.4	3484.6	3436.9	3359.9	3209.3	2865.2	2373.9
20°	3233.5	3236.9	3284.6	3386.7	3522.3	3648.7	3656.2	3601.0	3471.3	3086.2	2534.6
22.5°	3386.7	3394.2	3406.8	3471.3	3593.5	3753.3	3841.2	3829.5	3720.7	3318.1	2707.9
25°	3789.3	3766.7	3705.6	3687.2	3734.1	3863.8	4013.7	4036.3	3982.7	3573.4	2894.5
27.5°	4286.5	4262.3	4171.9	4076.4	3975.2	4020.4	4180.2	4248.0	4248.9	3854.6	3082.0
30°	4737.7	4718.5	4644.8	4508.4	4333.4	4268.1	4386.2	4477.4	4531.8	4179.4	3295.5
32.5°	5123.6	5106.0	5006.4	4895.1	4724.3	4592.9	4635.6	4723.5	4850.7	4599.6	3560.8
35°	5448.4	5430.8	5335.4	5223.2	5065.0	4986.3	4971.3	5031.5	5196.4	5038.2	3865.5
37.5°	5712.0	5694.5	5594.9	5489.4	5368.9	5373.9	5396.5	5425.8	5520.4	5507.8	4191.1
40°	5882.8	5864.4	5793.2	5717.9	5641.7	5702.0	5814.2	5779.0	5829.2	5887.0	4490.8
42.5°	5959.0	5935.5	5894.5	5877.8	5854.3	5948.1	6164.1	6128.9	6068.6	6139.8	4713.4
45°	5882.8	5862.7	5861.9	5912.9	5967.3	6087.9	6406.0	6377.5	6225.2	6262.0	4846.5
47.5°	5649.3	5631.7	5679.4	5813.3	5947.3	6123.0	6513.9	6519.0	6336.5	6313.0	4932.7
50°	5144.5	5132.8	5270.9	5524.5	5755.6	6013.4	6479.6	6537.4	6363.3	6297.1	4921.9
52.5°	4118.3	4172.7	4473.2	4896.8	5345.4	5820.9	6352.4	6427.7	6234.4	6192.5	4863.3
55°	2819.2	2844.3	3144.8	3763.4	4474.9	5404.0	6060.3	6176.6	6082.0	6174.9	4924.4
57.5°	1459.8	1479.9	1716.8	2265.9	3035.2	4270.6	5249.2	5630.8	5774.8	6263.7	5114.4
60°	599.3	616.1	714.0	979.4	1531.0	2486.9	3777.6	4343.5	4681.6	5720.4	4541.8
62.5°	435.3	443.6	490.5	584.3	801.9	1218.7	2137.8	2346.3	2584.0	3585.1	2883.6
65°	366.6	375.8	413.5	470.4	585.1	747.5	913.2	918.2	1012.0	1460.7	1068.9
67.5°	307.2	315.6	349.1	397.6	472.9	530.7	490.5	491.3	489.7	529.9	512.3
70°	239.4	246.1	279.6	331.5	370.8	340.7	383.4	424.4	406.8	422.7	447.0
72.5°	174.9	182.5	211.8	251.1	241.1	242.7	310.5	352.4	342.4	359.9	382.5
75°	126.4	131.4	146.5	125.6	132.3	159.9	218.5	241.1	251.1	266.2	286.3
77.5°	41.0	41.0	46.0	57.8	72.0	88.7	111.3	120.5	135.6	152.3	166.6
80°	20.9	21.8	25.9	31.8	40.2	51.1	65.3	69.5	77.0	86.2	92.1
82.5°	10.0	10.9	12.6	15.9	20.9	26.8	36.0	40.2	45.2	51.1	55.2
85°	2.5	2.5	3.3	5.0	6.7	10.0	13.4	15.9	20.1	24.3	26.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.5	3.3	4.2	5.0	6.7
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°	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1586.2	1539.3	1479.1	1428.0	1381.1	1345.1	1314.2	1299.1	1284.9	1274.8	1278.2
5°	1629.7	1549.4	1437.2	1359.4	1311.7	1287.4	1270.6	1262.3	1260.6	1253.9	1251.4
7.5°	1693.4	1578.7	1428.8	1350.2	1318.4	1305.8	1296.6	1291.6	1294.1	1287.4	1284.9
10°	1772.0	1627.2	1449.8	1380.3	1352.7	1343.5	1333.4	1326.7	1323.4	1313.3	1311.7
12.5°	1870.0	1687.5	1487.4	1418.8	1391.2	1375.3	1361.9	1350.2	1342.6	1330.1	1326.7
15°	1975.4	1754.5	1531.8	1456.5	1423.8	1400.4	1378.6	1361.0	1347.7	1330.9	1328.4
17.5°	2090.1	1824.8	1568.6	1482.4	1440.6	1409.6	1377.8	1351.8	1333.4	1311.7	1309.1
20°	2209.8	1895.9	1596.3	1495.0	1441.4	1399.6	1356.9	1322.5	1299.1	1277.3	1275.7
22.5°	2333.7	1961.2	1613.0	1491.6	1428.0	1376.1	1325.1	1286.5	1258.9	1233.0	1231.3
25°	2458.4	2024.0	1617.2	1478.2	1401.2	1341.0	1289.9	1244.7	1213.7	1184.4	1181.1
27.5°	2584.8	2076.7	1607.1	1451.4	1365.2	1299.9	1248.9	1204.5	1172.7	1143.4	1138.4
30°	2719.6	2121.9	1585.4	1416.3	1323.4	1256.4	1206.2	1172.7	1142.6	1113.3	1108.3
32.5°	2863.6	2161.3	1554.4	1373.6	1274.8	1212.9	1176.1	1145.9	1115.8	1089.8	1084.8
35°	3035.2	2187.2	1508.4	1318.4	1229.6	1181.1	1156.0	1120.8	1084.0	1055.5	1053.0
37.5°	3212.6	2207.3	1453.1	1265.6	1190.3	1162.7	1141.7	1094.0	1048.0	1013.7	1009.5
40°	3384.2	2224.0	1384.5	1216.2	1154.3	1149.3	1120.8	1061.4	981.9	943.4	940.0
42.5°	3544.1	2229.1	1312.5	1163.5	1121.6	1119.1	1087.3	995.3	934.2	909.9	906.5
45°	3653.7	2224.9	1238.0	1114.1	1089.0	1075.6	1042.1	947.5	909.9	888.1	883.9
47.5°	3734.9	2203.1	1154.3	1062.2	1052.2	1033.8	961.8	917.4	882.3	860.5	856.3
50°	3720.7	2112.7	1069.8	1012.0	1007.8	991.9	903.2	879.7	848.8	825.3	822.0
52.5°	3647.0	1941.1	983.5	956.8	965.1	934.2	861.3	834.5	807.8	781.0	775.1
55°	3665.5	1817.2	918.2	903.2	918.2	847.9	814.5	786.0	760.9	734.9	729.9
57.5°	3745.8	1695.0	848.8	845.4	861.3	781.8	754.2	718.2	682.2	661.3	661.3
60°	3145.6	1235.5	726.6	734.9	770.9	728.2	704.0	667.1	627.8	609.4	609.4
62.5°	1859.9	775.1	602.7	593.5	616.1	642.9	656.2	626.1	579.2	555.0	555.8
65°	819.5	564.2	531.5	524.0	517.3	535.7	572.5	575.1	525.7	497.2	498.0
67.5°	504.7	510.6	497.2	491.3	485.5	482.1	478.8	480.5	467.1	441.1	440.3
70°	455.4	471.3	462.1	457.0	449.5	443.6	423.5	390.9	368.3	361.6	369.1
72.5°	391.7	413.5	408.5	406.0	396.8	382.5	355.7	323.9	297.2	280.4	283.8
75°	295.5	313.1	315.6	316.4	306.4	293.0	265.3	238.6	215.1	197.5	201.7
77.5°	169.9	180.0	182.5	185.0	177.5	172.4	154.0	134.8	122.2	103.8	108.8
80°	94.6	98.8	98.8	99.6	95.4	89.6	77.0	66.1	60.3	51.9	52.7
82.5°	56.9	58.6	59.4	60.3	57.8	51.9	42.7	35.2	31.8	27.6	26.8
85°	27.6	29.3	29.3	30.1	25.9	22.6	17.6	13.4	11.7	8.4	9.2
87.5°	6.7	7.5	7.5	6.7	5.9	4.2	2.5	0.8	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)