

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: P633435

Luminaire Tested: GWS-SA2E-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15010.5 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

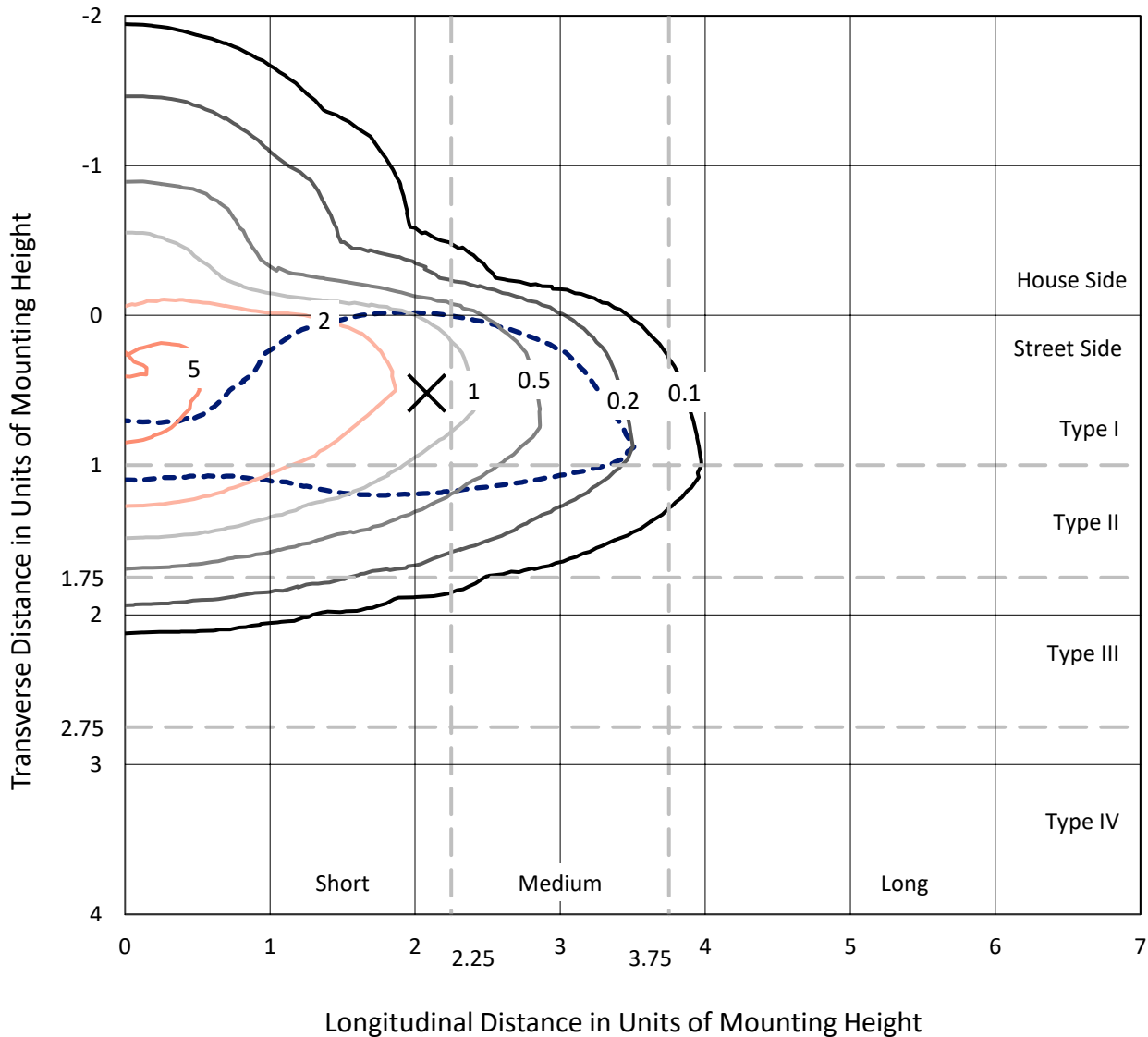
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

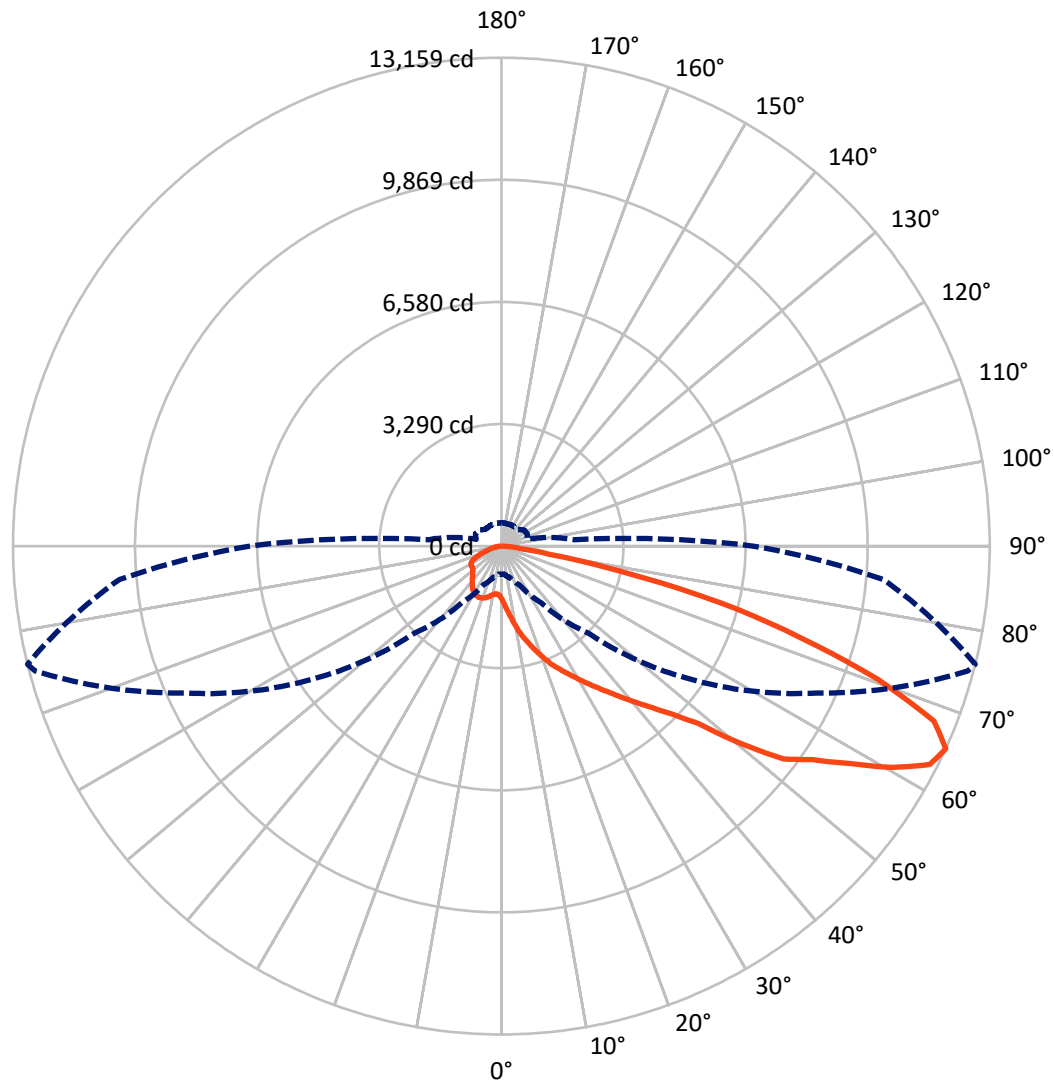
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2509.0	0.0	2509.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	12501.5	0.0	12501.5
	% Fixture	83.3	0.0	83.3
Total	Lumens	15010.5	0.0	15010.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.1
10°-20°	643.2	4.3
20°-30°	1253.6	8.4
30°-40°	2096.5	14.0
40°-50°	3001.8	20.0
50°-60°	3553.7	23.7
60°-70°	2954.9	19.7
70°-80°	1209.2	8.1
80°-90°	128.7	0.9
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°	15010.5	100.0
0°-180°	15010.5	100.0

Coefficient of Utilization



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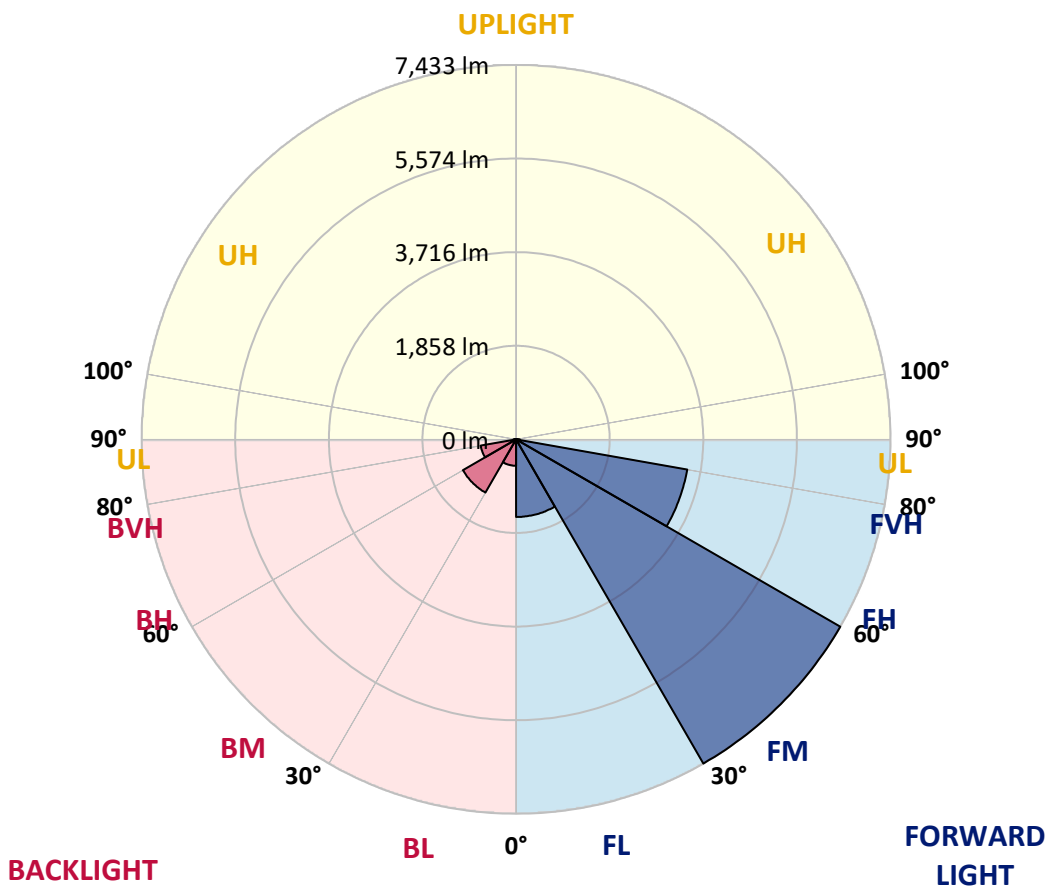
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.8	10.3			
FM (30°-60°)	7432.6	49.5			
FH (60°-80°)	3451.3	23.0			G2/5000
FVH (80°-90°)	76.8	0.5			G1/100
BL (0°-30°)	524.9	3.5	B2/1000		
BM (30°-60°)	1219.3	8.1	B2/2500		
BH (60°-80°)	712.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	52.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4
2.5°	1992.3	1999.7	1975.5	1967.0	1910.0	1833.0	1768.6	1671.5	1581.8	1568.1	1487.9
5°	2530.5	2498.9	2471.4	2453.5	2374.3	2286.8	2150.6	1968.1	1777.1	1753.8	1580.8
7.5°	2850.3	2845.0	2811.2	2800.7	2739.5	2651.9	2511.5	2284.6	2007.1	1969.1	1706.4
10°	3106.7	3103.5	3086.6	3096.1	3040.2	2954.7	2818.6	2584.3	2259.3	2221.3	1846.7
12.5°	3330.4	3335.7	3332.5	3367.3	3338.9	3272.4	3131.0	2873.5	2511.5	2470.4	2017.7
15°	3494.0	3498.2	3514.0	3590.0	3605.8	3592.1	3448.6	3157.3	2760.6	2701.5	2193.9
17.5°	3540.4	3548.8	3586.8	3709.2	3794.7	3851.7	3745.1	3446.5	3005.4	2941.0	2373.3
20°	3602.7	3612.2	3650.2	3777.8	3903.4	4033.2	4014.2	3739.9	3252.3	3199.6	2554.8
22.5°	3890.8	3883.4	3866.5	3927.7	4017.4	4178.8	4226.3	4021.6	3507.7	3457.0	2755.3
25°	4445.8	4432.1	4324.5	4268.5	4239.0	4337.1	4421.6	4278.0	3756.7	3680.8	2942.1
27.5°	5057.9	5050.5	4913.3	4780.3	4598.8	4556.6	4606.2	4501.8	3998.4	3921.4	3104.6
30°	5637.2	5615.1	5471.5	5304.8	5062.1	4880.6	4807.8	4721.2	4263.3	4183.1	3294.5
32.5°	6155.3	6126.9	5958.0	5773.3	5519.0	5304.8	5087.4	4954.5	4563.0	4470.1	3488.7
35°	6580.6	6552.1	6379.1	6182.8	5903.1	5744.9	5447.3	5207.7	4867.9	4774.0	3717.7
37.5°	6909.9	6883.5	6703.0	6509.9	6266.1	6140.6	5882.0	5492.6	5219.3	5121.2	3960.4
40°	7094.5	7075.5	6931.0	6778.0	6573.2	6464.5	6348.5	5852.5	5612.9	5514.8	4246.4
42.5°	7150.5	7137.8	7036.5	6957.3	6819.1	6736.8	6803.3	6275.6	6032.9	5947.5	4568.2
45°	7010.1	7010.1	6980.6	7020.7	7027.0	7025.9	7259.2	6753.7	6549.0	6455.0	5022.0
47.5°	6651.3	6674.5	6717.8	6915.1	7123.0	7297.1	7792.1	7391.1	7212.7	7135.7	5664.7
50°	5994.9	6058.3	6206.0	6591.2	7033.3	7476.5	8296.5	8333.4	8503.3	8367.2	6610.2
52.5°	5033.6	5024.1	5400.8	5949.6	6623.9	7483.9	8574.0	9165.0	9621.9	9528.0	7313.0
55°	4000.5	3984.7	4336.1	5092.7	5996.0	7201.1	8740.7	9545.9	10242.4	10158.0	7945.1
57.5°	3063.4	3043.4	3355.7	4038.5	5109.6	6600.7	8709.1	9999.7	11096.1	11052.8	8804.1
60°	2108.4	2084.1	2376.5	2973.7	4060.7	5682.6	8358.7	10232.9	12095.4	12110.2	9723.2
62.5°	1266.3	1252.6	1464.7	1928.0	2921.0	4545.0	7538.8	10091.5	12891.1	12957.6	10314.1
65°	764.0	754.5	879.0	1150.2	1853.0	3316.7	6274.6	9368.6	13006.1	13159.1	10327.9
67.5°	556.1	557.2	593.1	700.7	1080.6	2142.2	4708.6	8072.8	12406.7	12565.0	9676.8
70°	483.3	485.4	504.4	528.7	653.2	1226.2	3061.3	6372.7	10634.9	10757.3	8116.0
72.5°	429.5	429.5	442.2	454.8	510.7	747.1	1639.9	4454.3	8393.6	8426.3	6194.4
75°	377.8	374.6	380.9	387.3	443.2	522.4	797.8	3103.5	6199.7	6123.7	4003.7
77.5°	300.7	297.6	298.6	305.0	355.6	373.6	404.2	1938.5	3494.0	3297.7	1768.6
80°	214.2	212.1	223.7	239.5	262.8	229.0	253.3	938.1	1385.6	1289.5	685.9
82.5°	127.7	131.9	149.8	162.5	181.5	143.5	163.6	313.4	490.7	478.0	278.6
85°	17.9	19.0	53.8	62.3	78.1	55.9	86.5	141.4	196.3	210.0	98.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.4	25.3	55.9	57.0	24.3
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°	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4
2.5°	1446.8	1397.2	1326.5	1267.4	1217.8	1177.7	1143.9	1118.6	1111.2	1100.6	1100.6
5°	1499.5	1409.8	1283.2	1193.5	1141.8	1111.2	1090.1	1079.5	1074.3	1067.9	1064.8
7.5°	1572.3	1446.8	1275.8	1185.1	1145.0	1126.0	1112.2	1105.9	1101.7	1095.4	1095.4
10°	1672.6	1501.6	1299.0	1214.6	1182.9	1164.0	1148.1	1137.6	1128.1	1118.6	1116.5
12.5°	1781.3	1573.4	1341.2	1254.7	1220.9	1197.7	1175.6	1159.7	1148.1	1136.5	1133.4
15°	1901.6	1647.3	1386.6	1293.8	1251.5	1219.9	1193.5	1169.2	1153.4	1136.5	1134.4
17.5°	2019.8	1722.2	1424.6	1320.1	1266.3	1227.3	1189.3	1157.6	1137.6	1118.6	1113.3
20°	2161.2	1797.1	1451.0	1327.5	1263.1	1211.4	1166.1	1126.0	1103.8	1081.6	1078.5
22.5°	2291.0	1866.8	1463.6	1317.0	1238.9	1177.7	1124.9	1081.6	1057.4	1035.2	1031.0
25°	2416.6	1928.0	1458.4	1291.6	1201.9	1131.2	1076.4	1033.1	1009.9	986.7	980.3
27.5°	2537.9	1969.1	1437.3	1252.6	1155.5	1079.5	1026.8	987.7	967.7	947.6	939.2
30°	2657.2	2007.1	1404.6	1201.9	1096.4	1025.7	982.4	955.0	935.0	913.9	907.5
32.5°	2777.5	2034.5	1355.0	1142.8	1036.3	978.2	951.8	931.8	910.7	889.6	883.3
35°	2898.8	2046.2	1294.8	1075.3	985.6	947.6	938.1	914.9	886.4	861.1	852.7
37.5°	3043.4	2056.7	1219.9	1008.8	941.3	932.9	930.7	895.9	862.1	827.3	817.8
40°	3217.5	2070.4	1142.8	948.7	905.4	927.6	919.1	871.6	804.1	770.3	759.8
42.5°	3430.7	2095.8	1062.6	893.8	879.0	907.5	898.0	812.6	767.2	748.2	742.9
45°	3744.1	2188.6	982.4	850.5	859.0	879.0	864.3	777.7	759.8	747.1	740.8
47.5°	4302.3	2331.1	912.8	817.8	843.2	853.7	796.7	768.2	754.5	737.6	730.2
50°	4882.7	2393.3	856.9	797.8	825.2	830.5	759.8	755.6	746.1	728.1	720.7
52.5°	5275.3	2384.9	823.1	790.4	810.4	790.4	742.9	741.8	735.5	714.4	706.0
55°	5718.5	2399.7	808.3	792.5	804.1	722.9	721.8	725.0	721.8	698.6	694.4
57.5°	6316.8	2445.0	800.9	799.9	799.9	690.1	701.7	706.0	699.6	689.1	685.9
60°	6891.9	2448.2	787.2	808.3	796.7	670.1	678.5	682.8	675.4	673.3	672.2
62.5°	7108.2	2296.3	756.6	802.0	784.1	647.9	654.3	656.4	649.0	654.3	653.2
65°	6786.4	1973.3	706.0	771.4	745.0	627.9	623.7	628.9	616.3	630.0	631.0
67.5°	6025.6	1568.1	628.9	713.4	690.1	605.7	597.3	597.3	576.2	597.3	596.2
70°	4858.4	1108.0	516.0	620.5	630.0	579.3	575.1	550.8	517.1	548.7	545.6
72.5°	3682.9	795.7	406.3	490.7	542.4	542.4	543.5	502.3	463.3	478.0	465.4
75°	2333.2	560.3	325.0	375.7	425.3	475.9	500.2	424.2	389.4	383.1	376.7
77.5°	1051.0	368.3	253.3	288.1	301.8	375.7	456.9	365.1	317.6	303.9	299.7
80°	440.0	229.0	180.4	203.7	185.7	315.5	403.1	283.9	233.2	214.2	200.5
82.5°	193.1	136.1	115.0	109.7	116.1	234.3	300.7	188.9	145.6	197.3	199.4
85°	81.3	71.8	59.1	53.8	47.5	89.7	141.4	73.9	90.8	51.7	42.2
87.5°	19.0	21.1	15.8	10.6	6.3	1.1	0.0	0.0	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)