

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: P633238

Luminaire Tested: GWS-SA2E-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13055.6 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

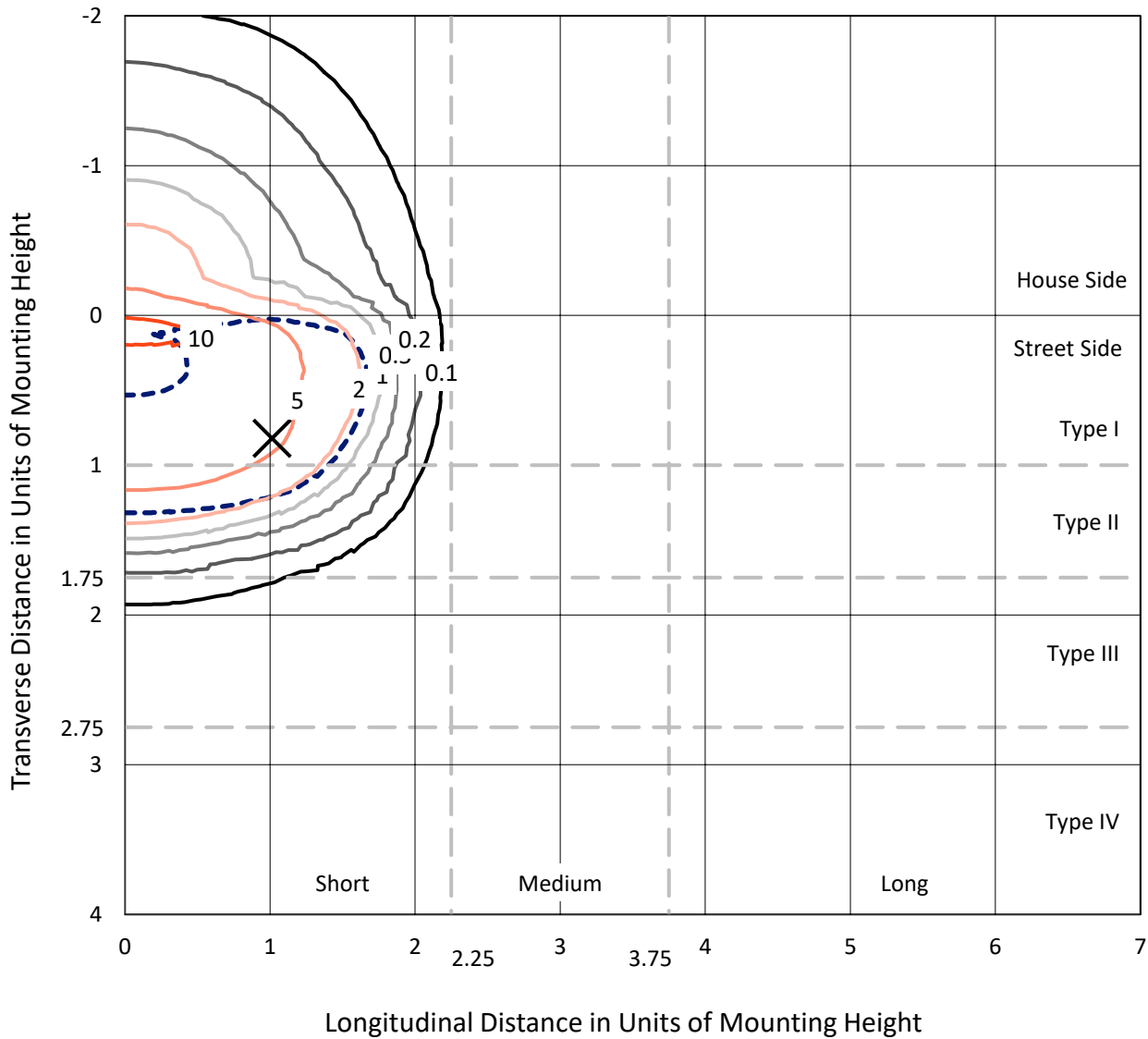
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

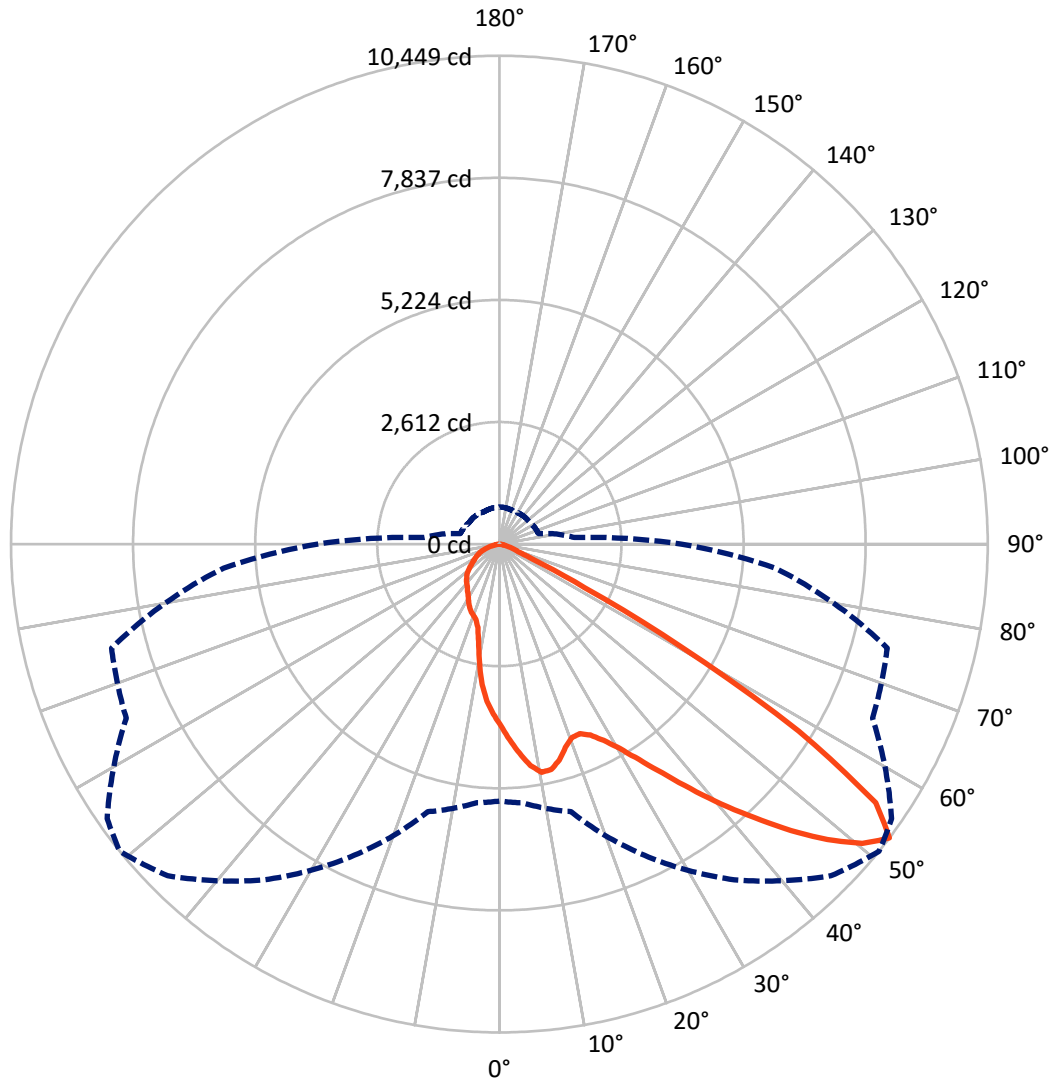
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2543.8	0.0	2543.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10511.8	0.0	10511.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	13055.6	0.0	13055.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.7	2.8
10°-20°	942.5	7.2
20°-30°	1532.5	11.7
30°-40°	2428.7	18.6
40°-50°	3662.9	28.1
50°-60°	3168.7	24.3
60°-70°	718.4	5.5
70°-80°	211.8	1.6
80°-90°	27.3	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°	13055.6	100.0
0°-180°	13055.6	100.0

Coefficient of Utilization



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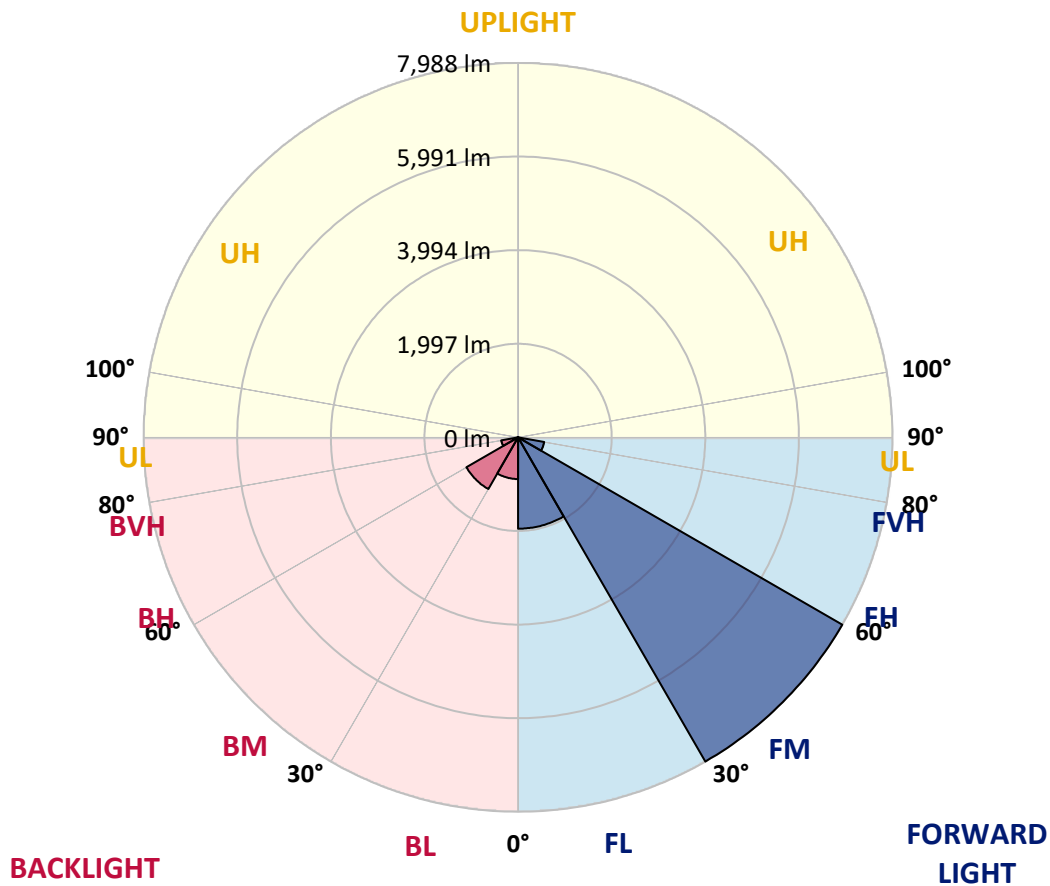
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1948.6	14.9			
FM (30°-60°)	7987.6	61.2			
FH (60°-80°)	565.4	4.3			G0/660
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	889.2	6.8	B2/1000		
BM (30°-60°)	1272.7	9.7	B2/2500		
BH (60°-80°)	364.8	2.8	B1/500		G1/500
BVH (80°-90°)	17.0	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°	51°	55°	65°	75°	85°
0°	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3
2.5°	4331.9	4356.7	4318.5	4304.1	4280.4	4239.1	4191.6	4178.2	4076.1	4009.0	3933.7
5°	4767.3	4780.7	4749.8	4718.8	4660.0	4586.8	4495.0	4475.4	4289.7	4135.9	3976.0
7.5°	4864.3	4859.1	4886.0	4903.5	4896.3	4867.4	4785.9	4747.7	4525.9	4282.4	4046.2
10°	4480.5	4451.6	4550.7	4668.3	4809.6	4972.6	4963.3	4960.2	4767.3	4479.5	4135.9
12.5°	3971.9	3957.5	4037.9	4185.5	4452.7	4813.7	4948.9	5054.1	4985.0	4667.2	4236.0
15°	3681.0	3675.8	3730.5	3836.8	4049.3	4505.3	4794.1	5002.5	5171.7	4868.4	4342.3
17.5°	3628.4	3631.5	3650.0	3710.9	3863.6	4239.1	4573.4	4864.3	5317.2	5089.2	4475.4
20°	3782.1	3802.7	3770.7	3780.0	3862.5	4143.2	4422.7	4725.0	5410.0	5311.0	4618.8
22.5°	4123.6	4116.3	4046.2	4004.9	4005.9	4202.0	4406.2	4660.0	5470.9	5526.6	4748.7
25°	4510.4	4502.2	4418.6	4326.8	4269.0	4361.9	4524.9	4729.1	5525.6	5723.7	4852.9
27.5°	4967.5	4941.7	4848.8	4731.2	4603.3	4643.5	4753.9	4915.9	5610.2	5917.6	4922.1
30°	5410.0	5440.0	5306.9	5167.6	5032.4	5007.7	5071.7	5218.1	5782.5	6144.6	5004.6
32.5°	5997.1	5986.7	5839.2	5657.6	5464.7	5446.1	5496.7	5630.8	6092.0	6458.2	5130.5
35°	6707.9	6709.9	6500.5	6255.0	5980.5	5931.0	6015.6	6145.6	6553.1	6883.3	5329.6
37.5°	7446.5	7443.4	7260.8	6982.3	6607.8	6537.6	6634.6	6731.6	7129.8	7462.0	5639.1
40°	7964.4	7985.1	7899.4	7752.9	7398.1	7226.8	7312.4	7379.5	7757.1	8142.9	6046.6
42.5°	8258.5	8289.4	8308.0	8395.7	8208.9	8026.3	7995.4	8030.5	8317.3	8775.3	6429.3
45°	8321.4	8362.7	8497.8	8822.8	8895.0	8843.4	8742.3	8657.7	8735.1	9224.1	6680.0
47.5°	8043.9	8116.1	8405.0	8973.4	9395.3	9557.3	9444.9	9315.9	8976.5	9339.6	6654.2
50°	6944.1	7028.7	7679.7	8666.0	9466.5	10056.6	10067.0	9876.1	8947.6	9006.4	6330.3
52.5°	5497.7	5555.5	5927.9	7346.5	8768.1	10036.0	10448.7	10244.4	8808.3	8589.6	5924.8
55°	3285.8	3378.7	3726.4	4846.7	6830.6	8895.0	9774.0	9873.0	8740.2	8239.9	5648.4
57.5°	1109.0	1154.4	1486.6	2140.7	4025.5	6512.9	7551.8	7954.1	7934.5	7705.5	5108.8
60°	528.2	538.5	605.6	811.9	1611.5	3403.5	4470.2	4934.4	5357.4	5399.7	3178.6
62.5°	402.3	408.5	442.6	486.9	647.9	1434.0	2048.9	2403.8	2567.8	2203.6	1157.5
65°	336.3	341.5	367.3	395.1	440.5	621.1	786.1	906.8	817.1	636.5	551.9
67.5°	280.6	284.7	304.3	334.3	365.2	415.8	436.4	448.8	470.4	528.2	507.6
70°	219.7	223.9	244.5	270.3	300.2	312.6	332.2	344.6	387.9	462.2	460.1
72.5°	169.2	174.4	185.7	202.2	227.0	239.3	261.0	275.5	300.2	360.1	384.8
75°	123.8	126.9	137.2	142.4	145.5	142.4	164.0	180.5	213.6	236.3	242.4
77.5°	50.6	56.7	54.7	54.7	65.0	78.4	89.8	100.1	122.8	136.2	137.2
80°	20.6	22.7	26.8	29.9	36.1	46.4	53.6	57.8	68.1	76.3	82.5
82.5°	12.4	13.4	15.5	16.5	20.6	26.8	30.9	34.0	42.3	50.6	53.6
85°	6.2	6.2	7.2	8.3	10.3	12.4	14.4	16.5	21.7	26.8	29.9
87.5°	1.0	1.0	1.0	2.1	3.1	4.1	5.2	6.2	7.2	8.3	10.3
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°	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3	3887.3
2.5°	3889.4	3833.7	3768.7	3717.1	3657.2	3612.9	3549.9	3510.7	3473.6	3442.7	3420.0
5°	3893.5	3799.6	3664.5	3544.8	3421.0	3303.4	3182.7	3084.7	2997.0	2923.7	2917.5
7.5°	3917.2	3782.1	3570.6	3361.2	3119.7	2886.6	2653.4	2463.6	2319.2	2243.9	2228.4
10°	3957.5	3780.0	3474.6	3140.4	2728.7	2353.2	2076.7	1932.3	1848.7	1818.8	1808.5
12.5°	3999.8	3774.9	3351.9	2828.8	2257.3	1928.2	1776.5	1759.0	1774.5	1776.5	1775.5
15°	4051.3	3771.8	3197.1	2463.6	1912.7	1731.1	1741.4	1778.6	1814.7	1822.9	1822.9
17.5°	4114.3	3764.5	2986.7	2106.7	1697.1	1693.0	1747.6	1797.2	1831.2	1837.4	1837.4
20°	4180.3	3746.0	2727.7	1815.7	1609.4	1669.2	1728.0	1766.2	1789.9	1798.2	1799.2
22.5°	4225.7	3696.4	2429.6	1600.1	1554.7	1623.8	1666.1	1705.3	1705.3	1684.7	1678.5
25°	4235.0	3590.2	2106.7	1452.6	1489.7	1553.7	1597.0	1574.3	1532.0	1515.5	1514.5
27.5°	4200.9	3435.4	1787.9	1347.4	1411.3	1475.3	1468.1	1435.0	1416.5	1400.0	1406.2
30°	4159.7	3249.7	1511.4	1260.7	1320.5	1383.5	1358.7	1347.4	1333.9	1315.4	1319.5
32.5°	4131.8	3042.4	1298.9	1193.6	1259.7	1270.0	1287.5	1286.5	1274.1	1239.0	1237.0
35°	4140.1	2832.9	1156.5	1139.0	1209.1	1205.0	1238.0	1231.8	1146.2	1097.7	1094.6
37.5°	4206.1	2631.8	1072.9	1095.6	1128.6	1154.4	1183.3	1109.0	1079.1	1048.2	1050.2
40°	4331.9	2445.0	1027.5	1071.9	1080.2	1118.3	1051.3	1050.2	1036.8	1009.0	1007.9
42.5°	4474.3	2287.2	996.6	1060.5	1049.2	1056.4	985.2	993.5	992.5	974.9	969.8
45°	4561.0	2141.7	971.8	1018.3	1021.3	949.1	927.5	936.7	941.9	932.6	931.6
47.5°	4471.2	1974.6	946.0	953.3	980.1	900.6	873.8	874.8	884.1	885.2	881.0
50°	4219.5	1787.9	915.1	897.5	880.0	850.1	825.3	820.2	829.5	838.7	841.8
52.5°	3894.5	1609.4	863.5	836.7	795.4	795.4	784.1	767.6	779.9	792.3	796.4
55°	3656.2	1477.3	790.3	760.3	714.9	730.4	728.4	713.9	730.4	739.7	742.8
57.5°	3168.2	1187.4	695.3	686.1	647.9	666.5	670.6	652.0	643.8	645.8	648.9
60°	1880.7	766.5	627.3	626.2	592.2	613.8	626.2	607.6	582.9	586.0	590.1
62.5°	843.9	586.0	541.6	537.5	536.5	564.3	577.7	560.2	525.1	528.2	532.3
65°	531.3	506.5	470.4	470.4	486.9	510.7	521.0	506.5	466.3	461.2	465.3
67.5°	493.1	471.5	434.3	427.1	435.4	455.0	456.0	428.1	404.4	400.3	400.3
70°	442.6	426.1	390.0	375.5	372.4	371.4	368.3	361.1	345.6	341.5	343.5
72.5°	366.2	354.9	332.2	316.7	308.5	307.4	295.1	288.9	275.5	273.4	272.4
75°	242.4	245.5	245.5	243.5	236.3	233.2	219.7	213.6	198.1	191.9	190.9
77.5°	143.4	146.5	150.6	151.7	150.6	150.6	138.2	131.0	115.5	107.3	105.2
80°	87.7	89.8	91.8	94.9	90.8	87.7	76.3	69.1	61.9	56.7	55.7
82.5°	56.7	58.8	59.8	61.9	59.8	55.7	46.4	42.3	37.1	33.0	32.0
85°	32.0	33.0	35.1	35.1	32.0	28.9	23.7	20.6	17.5	15.5	15.5
87.5°	11.3	11.3	11.3	12.4	10.3	9.3	6.2	4.1	3.1	3.1	3.1
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)