

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: P632798

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632798
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-SA2D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10592.6 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

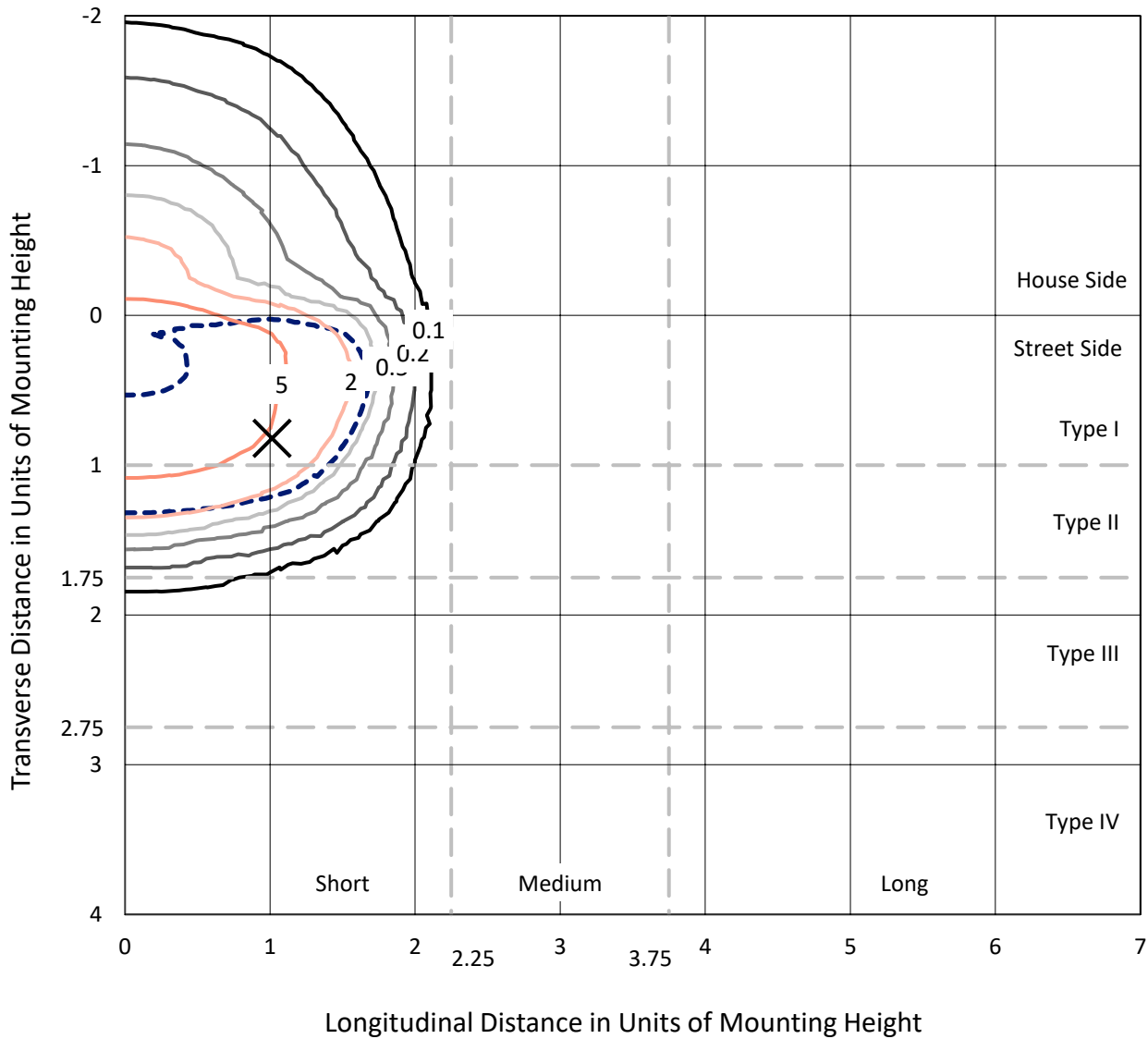
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

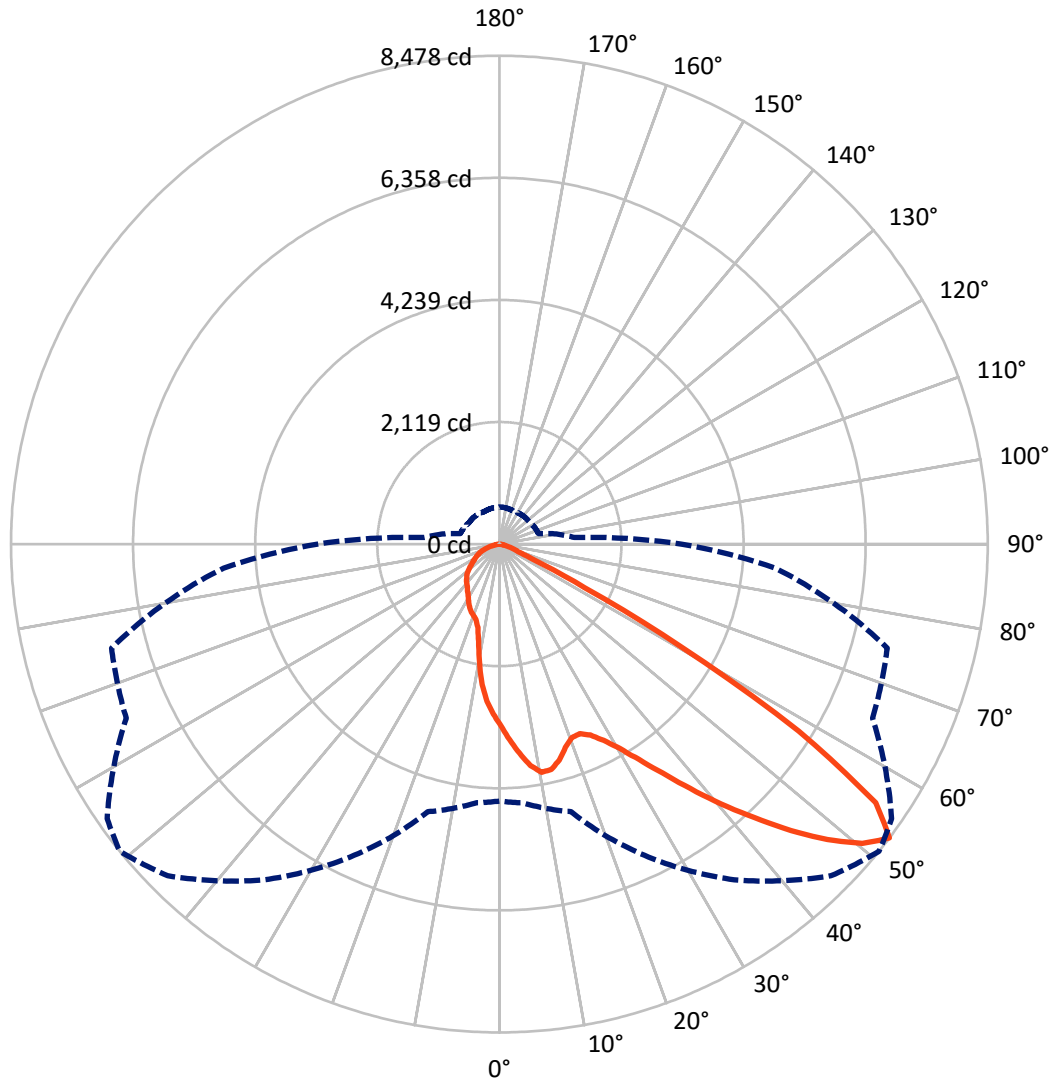
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 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	2063.9	0.0	2063.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8528.7	0.0	8528.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	10592.6	0.0	10592.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.3	2.8
10°-20°	764.7	7.2
20°-30°	1243.4	11.7
30°-40°	1970.5	18.6
40°-50°	2971.9	28.1
50°-60°	2570.9	24.3
60°-70°	582.9	5.5
70°-80°	171.9	1.6
80°-90°	22.1	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°	10592.6	100.0
0°-180°	10592.6	100.0

Coefficient of Utilization



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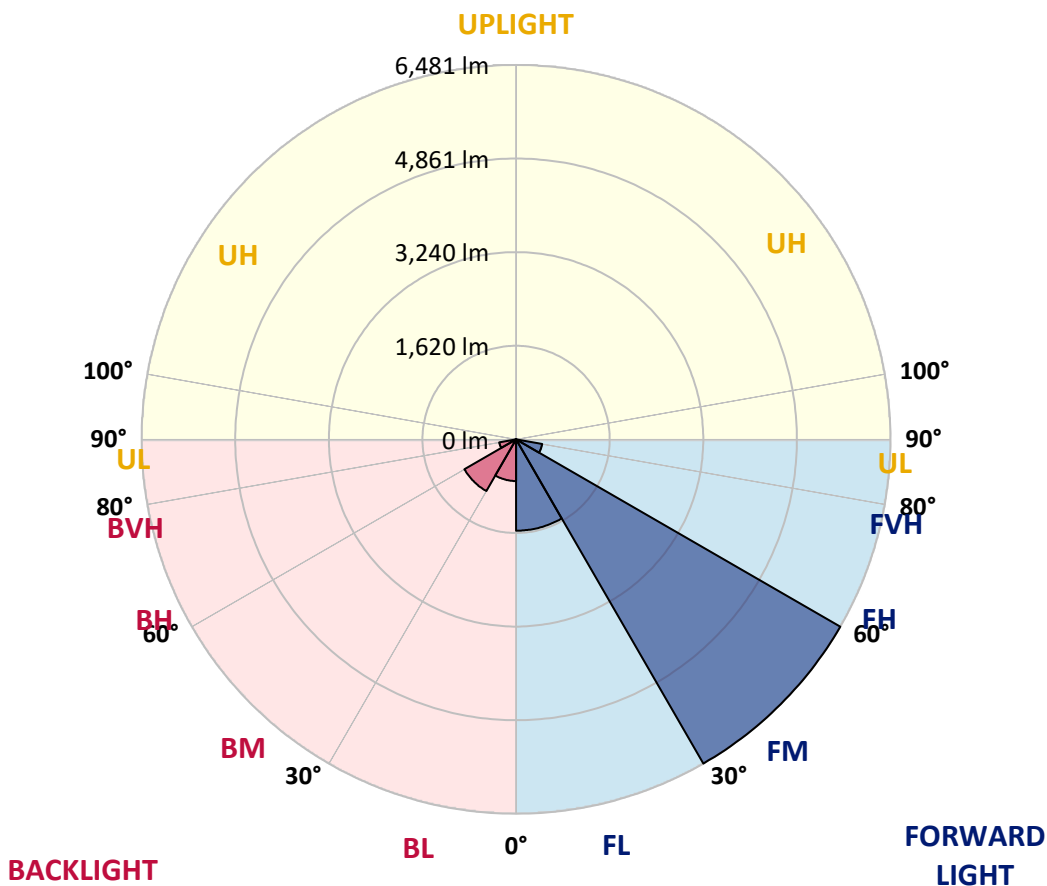
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1581.0	14.9			
FM (30°-60°)	6480.7	61.2			
FH (60°-80°)	458.7	4.3			G0/660
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	721.4	6.8	B2/1000		
BM (30°-60°)	1032.6	9.7	B2/2500		
BH (60°-80°)	296.0	2.8	B1/500		G1/500
BVH (80°-90°)	13.8	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°	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9
2.5°	3514.7	3534.8	3503.8	3492.1	3472.9	3439.4	3400.9	3390.0	3307.1	3252.7	3191.6
5°	3867.9	3878.8	3853.7	3828.6	3780.9	3721.5	3647.0	3631.1	3480.4	3355.7	3225.9
7.5°	3946.6	3942.4	3964.2	3978.4	3972.6	3949.1	3883.0	3852.0	3672.1	3474.5	3282.8
10°	3635.2	3611.8	3692.2	3787.6	3902.3	4034.5	4027.0	4024.5	3867.9	3634.4	3355.7
12.5°	3222.6	3210.9	3276.2	3395.8	3612.6	3905.6	4015.3	4100.6	4044.6	3786.7	3436.9
15°	2986.5	2982.4	3026.7	3112.9	3285.4	3655.3	3889.7	4058.8	4196.1	3950.0	3523.1
17.5°	2943.8	2946.4	2961.4	3010.8	3134.7	3439.4	3710.6	3946.6	4314.1	4129.1	3631.1
20°	3068.6	3085.3	3059.4	3066.9	3133.9	3361.5	3588.4	3833.6	4389.4	4309.1	3747.4
22.5°	3345.6	3339.8	3282.8	3249.4	3250.2	3409.2	3575.0	3780.9	4438.8	4484.0	3852.9
25°	3659.5	3652.8	3585.0	3510.5	3463.6	3539.0	3671.2	3837.0	4483.2	4643.9	3937.4
27.5°	4030.3	4009.4	3934.1	3838.6	3734.8	3767.5	3857.1	3988.5	4551.8	4801.2	3993.5
30°	4389.4	4413.7	4305.7	4192.7	4083.1	4063.0	4114.9	4233.7	4691.6	4985.4	4060.5
32.5°	4865.7	4857.3	4737.6	4590.3	4433.8	4418.7	4459.7	4568.5	4942.7	5239.8	4162.6
35°	5442.4	5444.1	5274.2	5074.9	4852.3	4812.1	4880.7	4986.2	5316.8	5584.7	4324.1
37.5°	6041.7	6039.2	5891.0	5665.0	5361.2	5304.3	5383.0	5461.6	5784.7	6054.3	4575.2
40°	6461.9	6478.6	6409.2	6290.3	6002.4	5863.4	5932.9	5987.3	6293.7	6606.7	4905.9
42.5°	6700.5	6725.6	6740.6	6811.8	6660.3	6512.1	6487.0	6515.5	6748.2	7119.8	5216.4
45°	6751.5	6785.0	6894.7	7158.3	7216.9	7175.1	7093.0	7024.4	7087.2	7483.9	5419.8
47.5°	6526.4	6584.9	6819.3	7280.5	7622.9	7754.3	7663.0	7558.4	7283.0	7577.7	5398.9
50°	5634.1	5702.7	6230.9	7031.1	7680.6	8159.4	8167.8	8012.9	7259.6	7307.3	5136.0
52.5°	4460.6	4507.4	4809.6	5960.5	7114.0	8142.7	8477.5	8311.8	7146.6	6969.1	4807.1
55°	2666.0	2741.3	3023.4	3932.4	5542.0	7216.9	7930.1	8010.4	7091.4	6685.4	4582.8
57.5°	899.8	936.6	1206.2	1736.8	3266.1	5284.2	6127.1	6453.5	6437.6	6251.8	4145.0
60°	428.6	436.9	491.3	658.7	1307.4	2761.4	3626.9	4003.5	4346.7	4381.0	2578.9
62.5°	326.4	331.5	359.1	395.1	525.7	1163.5	1662.4	1950.3	2083.4	1787.9	939.2
65°	272.9	277.1	298.0	320.6	357.4	503.9	637.8	735.8	662.9	516.5	447.8
67.5°	227.7	231.0	246.9	271.2	296.3	337.3	354.1	364.1	381.7	428.6	411.8
70°	178.3	181.6	198.4	219.3	243.6	253.6	269.5	279.6	314.7	375.0	373.3
72.5°	137.3	141.5	150.7	164.1	184.1	194.2	211.8	223.5	243.6	292.1	312.2
75°	100.4	103.0	111.3	115.5	118.0	115.5	133.1	146.5	173.3	191.7	196.7
77.5°	41.0	46.0	44.4	44.4	52.7	63.6	72.8	81.2	99.6	110.5	111.3
80°	16.7	18.4	21.8	24.3	29.3	37.7	43.5	46.9	55.2	61.9	67.0
82.5°	10.0	10.9	12.6	13.4	16.7	21.8	25.1	27.6	34.3	41.0	43.5
85°	5.0	5.0	5.9	6.7	8.4	10.0	11.7	13.4	17.6	21.8	24.3
87.5°	0.8	0.8	0.8	1.7	2.5	3.3	4.2	5.0	5.9	6.7	8.4
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°	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9	3153.9
2.5°	3155.6	3110.4	3057.7	3015.8	2967.3	2931.3	2880.2	2848.4	2818.3	2793.2	2774.8
5°	3159.0	3082.8	2973.1	2876.1	2775.6	2680.2	2582.3	2502.7	2431.6	2372.2	2367.1
7.5°	3178.2	3068.6	2897.0	2727.1	2531.2	2342.0	2152.9	1998.8	1881.7	1820.5	1808.0
10°	3210.9	3066.9	2819.1	2547.9	2214.0	1909.3	1685.0	1567.8	1500.0	1475.7	1467.3
12.5°	3245.2	3062.7	2719.5	2295.1	1831.4	1564.4	1441.4	1427.1	1439.7	1441.4	1440.5
15°	3287.0	3060.2	2594.0	1998.8	1551.9	1404.5	1412.9	1443.0	1472.3	1479.0	1479.0
17.5°	3338.1	3054.3	2423.2	1709.2	1376.9	1373.6	1417.9	1458.1	1485.7	1490.8	1490.8
20°	3391.7	3039.3	2213.1	1473.2	1305.8	1354.3	1402.0	1433.0	1452.3	1459.0	1459.8
22.5°	3428.5	2999.1	1971.2	1298.2	1261.4	1317.5	1351.8	1383.6	1383.6	1366.9	1361.9
25°	3436.0	2912.9	1709.2	1178.5	1208.7	1260.6	1295.7	1277.3	1243.0	1229.6	1228.8
27.5°	3408.4	2787.3	1450.6	1093.2	1145.1	1197.0	1191.1	1164.3	1149.2	1135.9	1140.9
30°	3374.9	2636.7	1226.3	1022.9	1071.4	1122.5	1102.4	1093.2	1082.3	1067.2	1070.6
32.5°	3352.3	2468.4	1053.8	968.4	1022.0	1030.4	1044.6	1043.8	1033.7	1005.3	1003.6
35°	3359.0	2298.5	938.3	924.1	981.0	977.7	1004.4	999.4	929.9	890.6	888.1
37.5°	3412.6	2135.3	870.5	888.9	915.7	936.6	960.1	899.8	875.5	850.4	852.1
40°	3514.7	1983.8	833.7	869.7	876.4	907.3	852.9	852.1	841.2	818.6	817.8
42.5°	3630.2	1855.7	808.6	860.5	851.3	857.1	799.4	806.1	805.2	791.0	786.8
45°	3700.5	1737.7	788.5	826.2	828.7	770.1	752.5	760.0	764.2	756.7	755.8
47.5°	3627.7	1602.1	767.6	773.4	795.2	730.7	709.0	709.8	717.3	718.2	714.8
50°	3423.5	1450.6	742.4	728.2	714.0	689.7	669.6	665.4	673.0	680.5	683.0
52.5°	3159.8	1305.8	700.6	678.8	645.4	645.4	636.1	622.8	632.8	642.8	646.2
55°	2966.4	1198.6	641.2	616.9	580.1	592.6	590.9	579.2	592.6	600.2	602.7
57.5°	2570.5	963.4	564.2	556.6	525.7	540.7	544.1	529.0	522.3	524.0	526.5
60°	1525.9	621.9	508.9	508.1	480.5	498.0	508.1	493.0	472.9	475.4	478.8
62.5°	684.7	475.4	439.4	436.1	435.3	457.9	468.7	454.5	426.1	428.6	431.9
65°	431.1	411.0	381.7	381.7	395.1	414.3	422.7	411.0	378.3	374.2	377.5
67.5°	400.1	382.5	352.4	346.5	353.2	369.1	370.0	347.4	328.1	324.8	324.8
70°	359.1	345.7	316.4	304.7	302.2	301.3	298.8	293.0	280.4	277.1	278.7
72.5°	297.1	287.9	269.5	257.0	250.3	249.4	239.4	234.4	223.5	221.8	221.0
75°	196.7	199.2	199.2	197.5	191.7	189.2	178.3	173.3	160.7	155.7	154.9
77.5°	116.3	118.9	122.2	123.0	122.2	122.2	112.2	106.3	93.7	87.1	85.4
80°	71.1	72.8	74.5	77.0	73.7	71.1	61.9	56.1	50.2	46.0	45.2
82.5°	46.0	47.7	48.5	50.2	48.5	45.2	37.7	34.3	30.1	26.8	25.9
85°	25.9	26.8	28.5	28.5	25.9	23.4	19.3	16.7	14.2	12.6	12.6
87.5°	9.2	9.2	9.2	10.0	8.4	7.5	5.0	3.3	2.5	2.5	2.5
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)