

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: P639013

Luminaire Tested: GWS-SA5B-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639013
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-SA5B-722-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11865.1 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

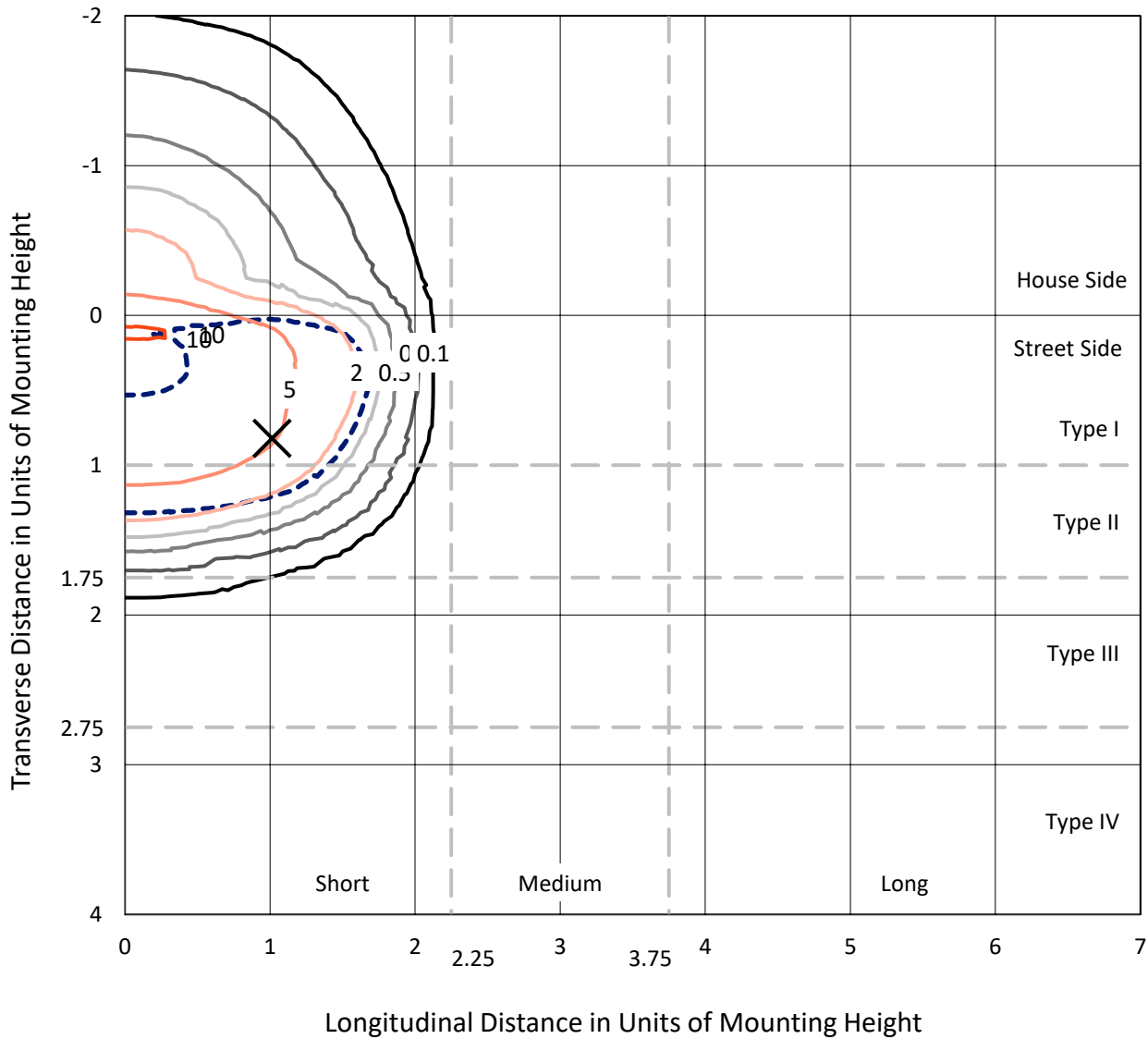
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639013
 CATALOG NUMBER: GWS-SA5B-722-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

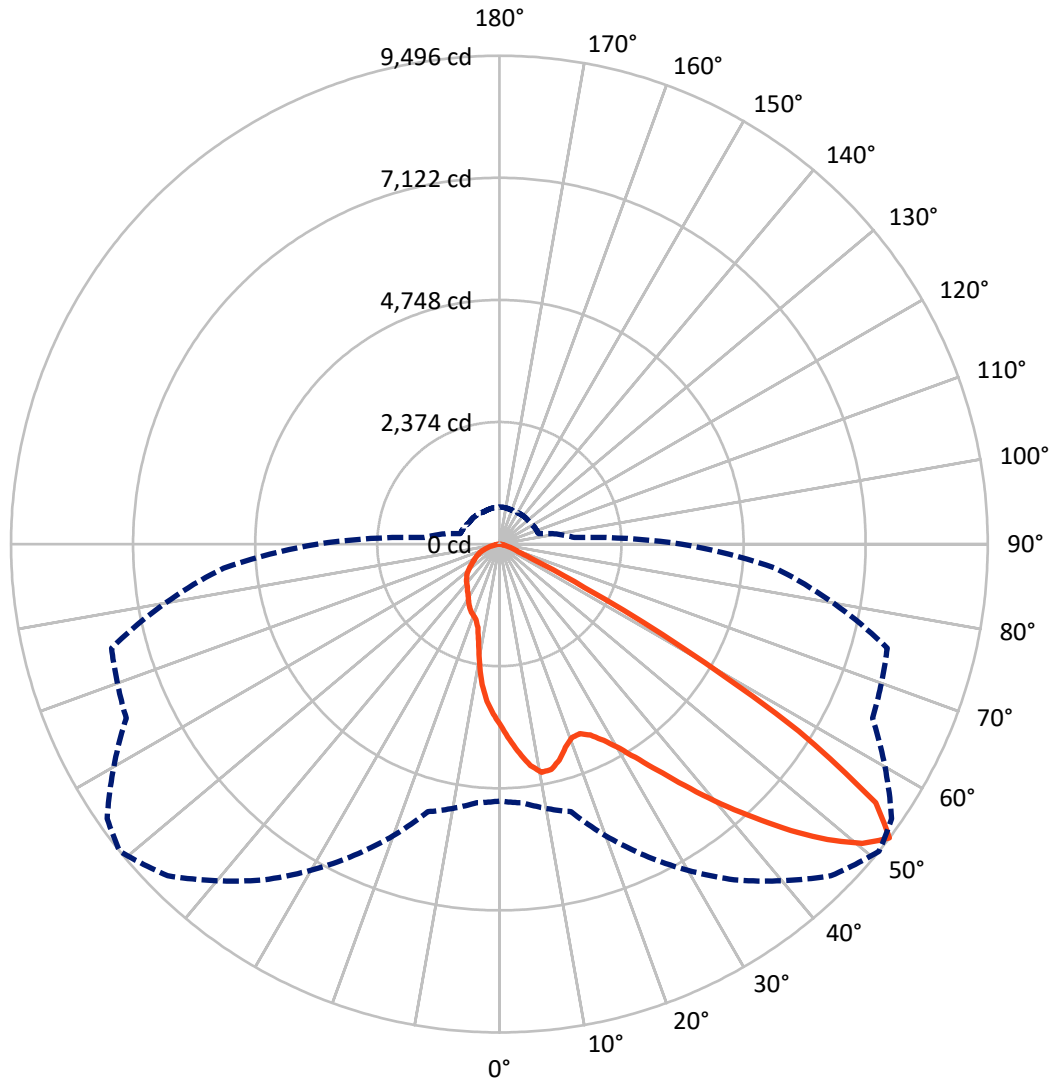
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

REPORT NUMBER: P639013
CATALOG NUMBER: GWS-SA5B-722-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P639013

CATALOG NUMBER: GWS-SA5B-722-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2311.8	0.0	2311.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	9553.3	0.0	9553.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	11865.1	0.0	11865.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.7	2.8
10°-20°	856.6	7.2
20°-30°	1392.8	11.7
30°-40°	2207.2	18.6
40°-50°	3328.9	28.1
50°-60°	2879.8	24.3
60°-70°	652.9	5.5
70°-80°	192.5	1.6
80°-90°	24.8	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°	11865.1	100.0
0°-180°	11865.1	100.0

Coefficient of Utilization



REPORT NUMBER: P639013

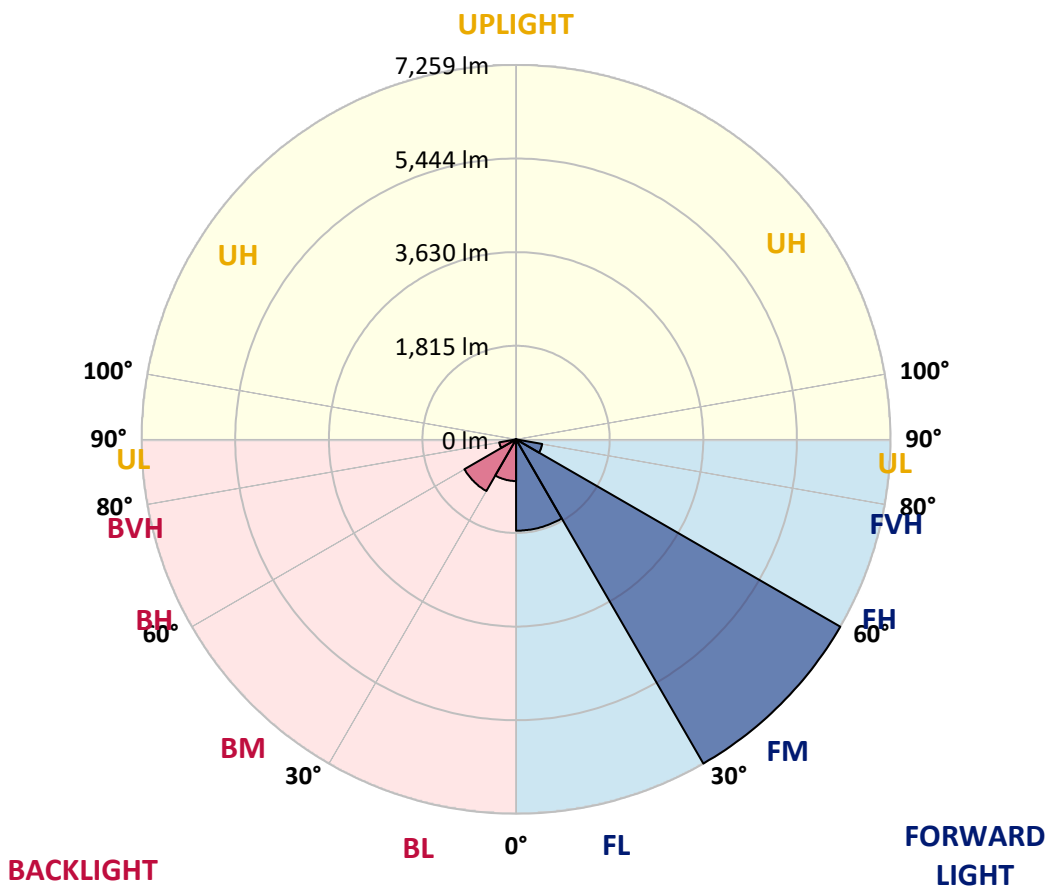
CATALOG NUMBER: GWS-SA5B-722-U-AFL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1770.9	14.9			
FM (30°-60°)	7259.2	61.2			
FH (60°-80°)	513.8	4.3			G0/660
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	808.1	6.8	B2/1000		
BM (30°-60°)	1156.7	9.7	B2/2500		
BH (60°-80°)	331.6	2.8	B1/500		G1/500
BVH (80°-90°)	15.5	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





REPORT NUMBER: P639013

CATALOG NUMBER: GWS-SA5B-722-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8
2.5°	3936.9	3959.4	3924.7	3911.6	3890.1	3852.5	3809.4	3797.2	3704.4	3643.5	3575.0
5°	4332.6	4344.8	4316.7	4288.5	4235.1	4168.5	4085.1	4067.3	3898.5	3758.8	3613.5
7.5°	4420.7	4416.0	4440.4	4456.4	4449.8	4423.5	4349.5	4314.8	4113.2	3891.9	3677.2
10°	4071.9	4045.7	4135.7	4242.6	4371.0	4519.2	4510.7	4507.9	4332.6	4071.0	3758.8
12.5°	3609.7	3596.6	3669.7	3803.8	4046.6	4374.8	4497.6	4593.2	4530.4	4241.6	3849.7
15°	3345.3	3340.6	3390.3	3486.9	3680.0	4094.4	4357.0	4546.4	4700.1	4424.5	3946.3
17.5°	3297.5	3300.3	3317.2	3372.5	3511.3	3852.5	4156.3	4420.7	4832.3	4625.1	4067.3
20°	3437.2	3456.0	3426.9	3435.3	3510.3	3765.4	4019.4	4294.2	4916.7	4826.7	4197.6
22.5°	3747.5	3741.0	3677.2	3639.7	3640.7	3818.8	4004.4	4235.1	4972.0	5022.7	4315.7
25°	4099.1	4091.6	4015.7	3932.2	3879.7	3964.1	4112.3	4297.9	5021.7	5201.7	4410.4
27.5°	4514.5	4491.0	4406.7	4299.8	4183.5	4220.1	4320.4	4467.6	5098.6	5378.0	4473.2
30°	4916.7	4943.9	4823.0	4696.4	4573.6	4551.1	4609.2	4742.3	5255.2	5584.3	4548.2
32.5°	5450.2	5440.8	5306.7	5141.7	4966.4	4949.5	4995.5	5117.4	5536.5	5869.3	4662.6
35°	6096.2	6098.1	5907.7	5684.6	5435.2	5390.2	5467.1	5585.2	5955.6	6255.6	4843.6
37.5°	6767.5	6764.7	6598.7	6345.6	6005.3	5941.5	6029.6	6117.8	6479.7	6781.6	5124.9
40°	7238.2	7256.9	7179.1	7046.0	6723.4	6567.8	6645.6	6706.6	7049.7	7400.4	5495.2
42.5°	7505.4	7533.5	7550.4	7630.1	7460.4	7294.4	7266.3	7298.2	7558.8	7975.1	5843.0
45°	7562.6	7600.1	7722.9	8018.3	8083.9	8037.0	7945.1	7868.2	7938.6	8383.0	6070.9
47.5°	7310.4	7376.0	7638.5	8155.1	8538.6	8685.8	8583.6	8466.4	8158.0	8488.0	6047.4
50°	6310.9	6387.8	6979.4	7875.7	8603.3	9139.6	9149.0	8975.5	8131.7	8185.1	5753.0
52.5°	4996.4	5048.9	5387.4	6676.6	7968.6	9120.9	9495.9	9310.3	8005.1	7806.4	5384.6
55°	2986.2	3070.6	3386.6	4404.8	6207.8	8083.9	8882.7	8972.7	7943.2	7488.5	5133.3
57.5°	1007.9	1049.2	1351.1	1945.5	3658.5	5919.0	6863.1	7228.8	7211.0	7002.8	4642.9
60°	480.0	489.4	550.4	737.9	1464.5	3093.1	4062.6	4484.5	4868.9	4907.3	2888.7
62.5°	365.7	371.3	402.2	442.5	588.8	1303.2	1862.1	2184.6	2333.7	2002.7	1052.0
65°	305.7	310.3	333.8	359.1	400.4	564.4	714.4	824.1	742.6	578.5	501.6
67.5°	255.0	258.8	276.6	303.8	331.9	377.8	396.6	407.9	427.5	480.0	461.3
70°	199.7	203.5	222.2	245.6	272.8	284.1	301.9	313.2	352.5	420.0	418.2
72.5°	153.8	158.5	168.8	183.8	206.3	217.5	237.2	250.3	272.8	327.2	349.7
75°	112.5	115.3	124.7	129.4	132.2	129.4	149.1	164.1	194.1	214.7	220.3
77.5°	45.9	51.6	49.7	49.7	59.1	71.3	81.6	90.9	111.6	123.8	124.7
80°	18.8	20.6	24.4	27.2	32.8	42.2	48.8	52.5	61.9	69.4	75.0
82.5°	11.3	12.2	14.1	15.0	18.8	24.4	28.1	30.9	38.4	45.9	48.8
85°	5.6	5.6	6.6	7.5	9.4	11.3	13.1	15.0	19.7	24.4	27.2
87.5°	0.9	0.9	0.9	1.9	2.8	3.8	4.7	5.6	6.6	7.5	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639013

CATALOG NUMBER: GWS-SA5B-722-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8	3532.8
2.5°	3534.7	3484.1	3425.0	3378.1	3323.8	3283.4	3226.2	3190.6	3156.9	3128.7	3108.1
5°	3538.5	3453.1	3330.3	3221.6	3109.0	3002.2	2892.5	2803.4	2723.7	2657.1	2651.5
7.5°	3560.0	3437.2	3245.0	3054.7	2835.3	2623.4	2411.5	2239.0	2107.7	2039.3	2025.2
10°	3596.6	3435.3	3157.8	2854.0	2479.9	2138.6	1887.4	1756.1	1680.2	1653.0	1643.6
12.5°	3635.0	3430.6	3046.2	2570.9	2051.4	1752.4	1614.5	1598.6	1612.7	1614.5	1613.6
15°	3681.9	3427.8	2905.6	2239.0	1738.3	1573.3	1582.6	1616.4	1649.2	1656.7	1656.7
17.5°	3739.1	3421.3	2714.3	1914.6	1542.3	1538.6	1588.3	1633.3	1664.2	1669.8	1669.8
20°	3799.1	3404.4	2479.0	1650.2	1462.6	1517.0	1570.5	1605.2	1626.7	1634.2	1635.2
22.5°	3840.4	3359.4	2208.0	1454.2	1412.9	1475.8	1514.2	1549.8	1549.8	1531.1	1525.5
25°	3848.8	3262.8	1914.6	1320.1	1353.9	1412.0	1451.4	1430.8	1392.3	1377.3	1376.4
27.5°	3817.9	3122.2	1624.8	1224.5	1282.6	1340.8	1334.2	1304.2	1287.3	1272.3	1277.9
30°	3780.4	2953.4	1373.6	1145.7	1200.1	1257.3	1234.8	1224.5	1212.3	1195.4	1199.2
32.5°	3755.0	2764.9	1180.4	1084.8	1144.8	1154.2	1170.1	1169.2	1157.9	1126.0	1124.2
35°	3762.5	2574.6	1051.0	1035.1	1098.9	1095.1	1125.1	1119.5	1041.7	997.6	994.8
37.5°	3822.5	2391.8	975.1	995.7	1025.7	1049.2	1075.4	1007.9	980.7	952.6	954.5
40°	3936.9	2222.1	933.8	974.2	981.7	1016.3	955.4	954.5	942.3	917.0	916.0
42.5°	4066.3	2078.6	905.7	963.8	953.5	960.1	895.4	902.9	902.0	886.0	881.3
45°	4145.1	1946.4	883.2	925.4	928.2	862.6	842.9	851.3	856.0	847.6	846.6
47.5°	4063.5	1794.5	859.8	866.3	890.7	818.5	794.1	795.1	803.5	804.5	800.7
50°	3834.7	1624.8	831.6	815.7	799.8	772.6	750.1	745.4	753.8	762.3	765.1
52.5°	3539.4	1462.6	784.8	760.4	722.9	722.9	712.6	697.6	708.8	720.1	723.8
55°	3322.8	1342.6	718.2	691.0	649.7	663.8	661.9	648.8	663.8	672.3	675.1
57.5°	2879.3	1079.2	631.9	623.5	588.8	605.7	609.4	592.6	585.1	586.9	589.7
60°	1709.2	696.6	570.1	569.1	538.2	557.9	569.1	552.2	529.7	532.6	536.3
62.5°	766.9	532.6	492.2	488.5	487.5	512.9	525.0	509.1	477.2	480.0	483.8
65°	482.9	460.4	427.5	427.5	442.5	464.1	473.5	460.4	423.8	419.1	422.9
67.5°	448.2	428.5	394.7	388.2	395.7	413.5	414.4	389.1	367.5	363.8	363.8
70°	402.2	387.2	354.4	341.3	338.5	337.5	334.7	328.2	314.1	310.3	312.2
72.5°	332.8	322.5	301.9	287.8	280.3	279.4	268.2	262.5	250.3	248.5	247.5
75°	220.3	223.1	223.1	221.3	214.7	211.9	199.7	194.1	180.0	174.4	173.5
77.5°	130.3	133.1	136.9	137.8	136.9	136.9	125.6	119.1	105.0	97.5	95.6
80°	79.7	81.6	83.4	86.3	82.5	79.7	69.4	62.8	56.3	51.6	50.6
82.5°	51.6	53.4	54.4	56.3	54.4	50.6	42.2	38.4	33.8	30.0	29.1
85°	29.1	30.0	31.9	31.9	29.1	26.3	21.6	18.8	15.9	14.1	14.1
87.5°	10.3	10.3	10.3	11.3	9.4	8.4	5.6	3.8	2.8	2.8	2.8
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)