

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: P636758

Luminaire Tested: GWS-SA4B-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636758
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-SA4B-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13131.1 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 94.4
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

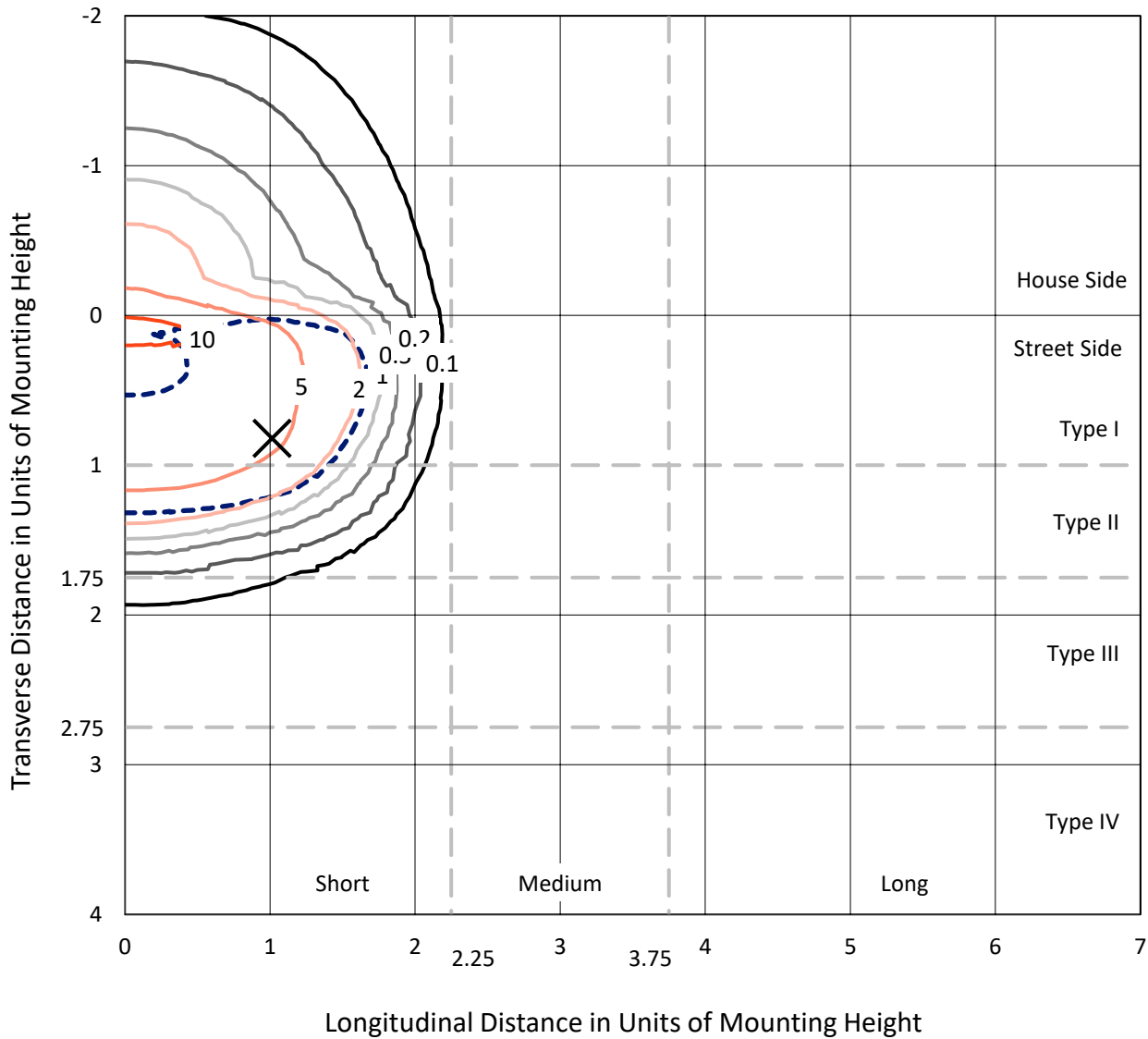


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Iso-Footcandle Lines of Horizontal Illumination

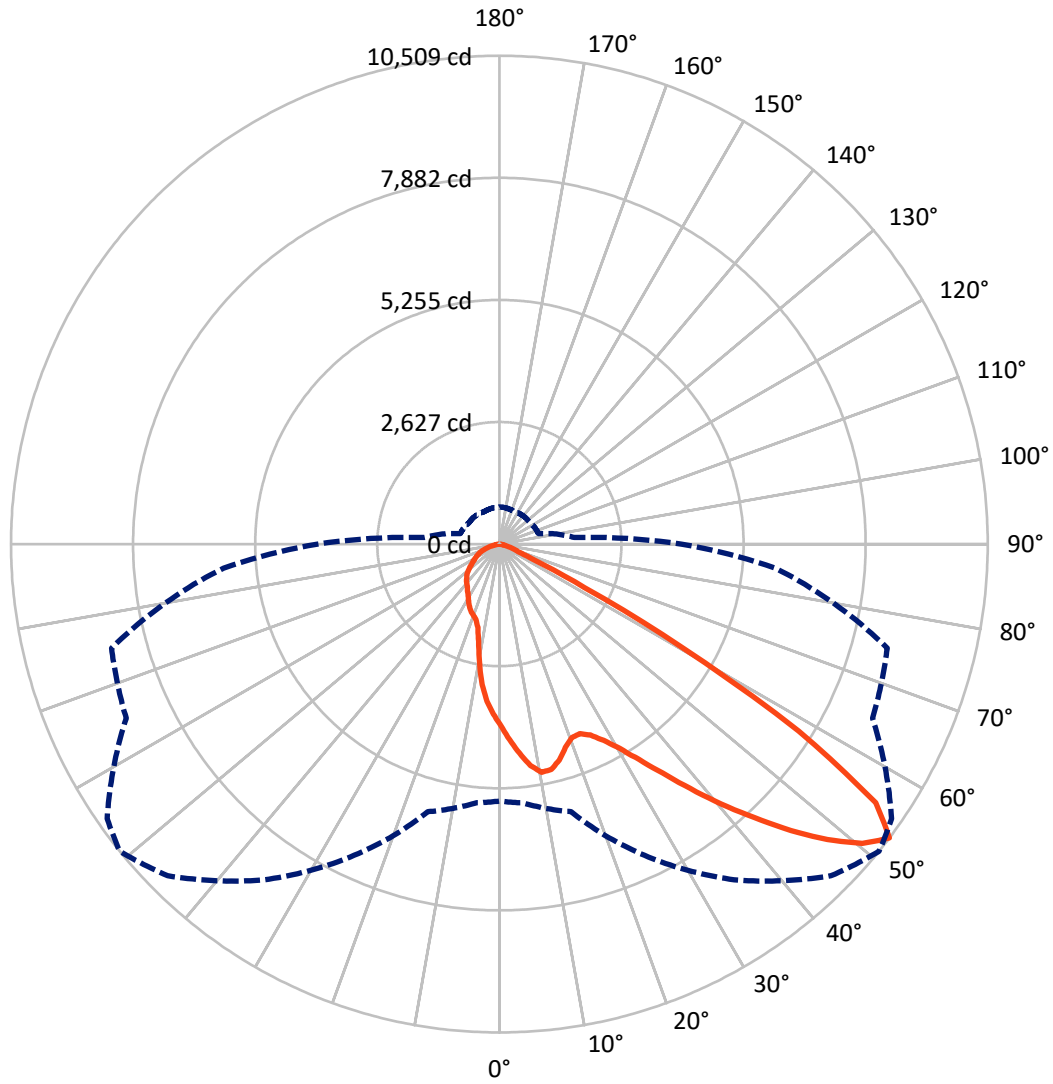
✕ Max cd
 - - - 1/2 Max cd



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	2558.5	0.0	2558.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10572.6	0.0	10572.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	13131.1	0.0	13131.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.8	2.8
10°-20°	948.0	7.2
20°-30°	1541.4	11.7
30°-40°	2442.7	18.6
40°-50°	3684.1	28.1
50°-60°	3187.1	24.3
60°-70°	722.5	5.5
70°-80°	213.0	1.6
80°-90°	27.4	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°	13131.1	100.0
0°-180°	13131.1	100.0

Coefficient of Utilization



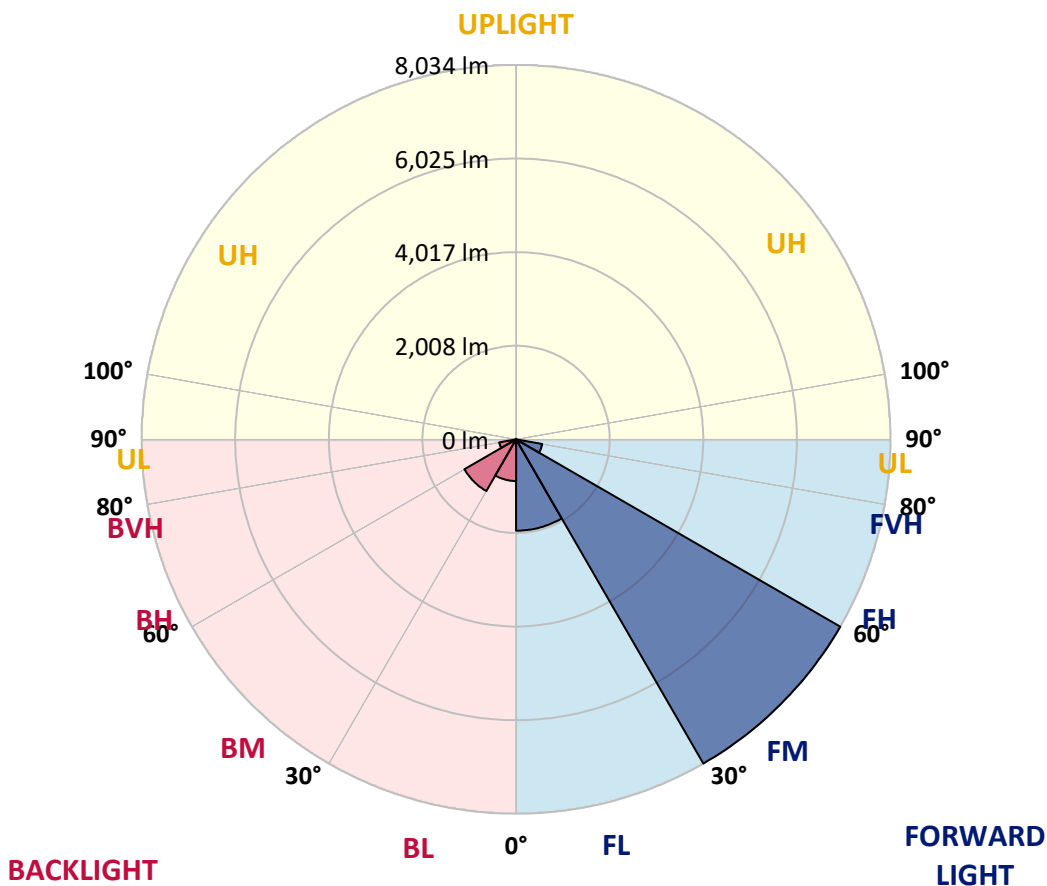
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.8	14.9			
FM (30°-60°)	8033.8	61.2			
FH (60°-80°)	568.6	4.3			G0/660
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	894.3	6.8	B2/1000		
BM (30°-60°)	1280.1	9.7	B2/2500		
BH (60°-80°)	367.0	2.8	B1/500		G1/500
BVH (80°-90°)	17.1	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°	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8
2.5°	4357.0	4381.9	4343.5	4329.0	4305.1	4263.6	4215.9	4202.4	4099.7	4032.2	3956.5
5°	4794.9	4808.4	4777.2	4746.1	4687.0	4613.3	4520.9	4501.2	4314.5	4159.9	3999.0
7.5°	4892.4	4887.2	4914.2	4931.8	4924.6	4895.5	4813.6	4775.2	4552.1	4307.2	4069.6
10°	4506.4	4477.4	4577.0	4695.3	4837.4	5001.4	4992.0	4988.9	4794.9	4505.4	4159.9
12.5°	3994.9	3980.3	4061.3	4209.7	4478.4	4841.6	4977.5	5083.3	5013.8	4694.2	4260.5
15°	3702.3	3697.1	3752.1	3858.9	4072.7	4531.3	4821.9	5031.5	5201.6	4896.6	4367.4
17.5°	3649.3	3652.5	3671.1	3732.3	3885.9	4263.6	4599.8	4892.4	5347.9	5118.6	4501.2
20°	3803.9	3824.7	3792.5	3801.9	3884.9	4167.1	4448.3	4752.3	5441.3	5341.7	4645.5
22.5°	4147.4	4140.1	4069.6	4028.1	4029.1	4226.3	4431.7	4687.0	5502.5	5558.6	4776.2
25°	4536.5	4528.2	4444.2	4351.8	4293.7	4387.1	4551.0	4756.5	5557.5	5756.8	4881.0
27.5°	4996.2	4970.2	4876.9	4758.6	4629.9	4670.4	4781.4	4944.3	5642.6	5951.8	4950.5
30°	5441.3	5471.4	5337.6	5197.5	5061.6	5036.6	5101.0	5248.3	5815.9	6180.1	5033.5
32.5°	6031.7	6021.4	5873.0	5690.4	5496.3	5477.6	5528.5	5663.4	6127.2	6495.6	5160.1
35°	6746.7	6748.7	6538.1	6291.1	6015.1	5965.3	6050.4	6181.2	6591.0	6923.1	5360.4
37.5°	7489.6	7486.5	7302.8	7022.7	6646.0	6575.5	6673.0	6770.5	7171.0	7505.2	5671.7
40°	8010.5	8031.2	7945.1	7797.8	7440.8	7268.6	7354.7	7422.2	7801.9	8190.0	6081.5
42.5°	8306.2	8337.3	8356.0	8444.2	8256.4	8072.7	8041.6	8076.9	8365.4	8826.1	6466.5
45°	8369.5	8411.0	8546.9	8873.8	8946.4	8894.6	8792.9	8707.8	8785.6	9277.4	6718.6
47.5°	8090.4	8163.0	8453.6	9025.3	9449.7	9612.6	9499.5	9369.8	9028.4	9393.6	6692.7
50°	6984.3	7069.4	7724.1	8716.1	9521.3	10114.8	10125.2	9933.2	8999.4	9058.5	6366.9
52.5°	5529.5	5587.6	5962.2	7389.0	8818.8	10094.0	10509.1	10303.6	8859.3	8639.3	5959.1
55°	3304.8	3398.2	3747.9	4874.8	6870.1	8946.4	9830.5	9930.1	8790.8	8287.5	5681.0
57.5°	1115.5	1161.1	1495.2	2153.1	4048.8	6550.5	7595.4	8000.1	7980.4	7750.0	5138.3
60°	531.3	541.6	609.1	816.6	1620.8	3423.1	4496.0	4963.0	5388.4	5430.9	3196.9
62.5°	404.7	410.9	445.1	489.8	651.6	1442.3	2060.7	2417.7	2582.7	2216.4	1164.2
65°	338.3	343.5	369.4	397.4	443.1	624.7	790.7	912.1	821.8	640.2	555.1
67.5°	282.2	286.4	306.1	336.2	367.3	418.2	438.9	451.4	473.2	531.3	510.5
70°	221.0	225.2	245.9	271.9	301.9	314.4	334.1	346.6	390.1	464.9	462.8
72.5°	170.2	175.4	186.8	203.4	228.3	240.7	262.5	277.0	301.9	362.1	387.0
75°	124.5	127.6	138.0	143.2	146.3	143.2	165.0	181.6	214.8	237.6	243.8
77.5°	50.8	57.1	55.0	55.0	65.4	78.9	90.3	100.6	123.5	137.0	138.0
80°	20.8	22.8	27.0	30.1	36.3	46.7	54.0	58.1	68.5	76.8	83.0
82.5°	12.5	13.5	15.6	16.6	20.8	27.0	31.1	34.2	42.5	50.8	54.0
85°	6.2	6.2	7.3	8.3	10.4	12.5	14.5	16.6	21.8	27.0	30.1
87.5°	1.0	1.0	1.0	2.1	3.1	4.2	5.2	6.2	7.3	8.3	10.4
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°	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8	3909.8
2.5°	3911.9	3855.8	3790.5	3738.6	3678.4	3633.8	3570.5	3531.0	3493.7	3462.6	3439.7
5°	3916.0	3821.6	3685.7	3565.3	3440.8	3322.5	3201.1	3102.5	3014.3	2940.6	2934.4
7.5°	3939.9	3803.9	3591.2	3380.6	3137.8	2903.3	2668.8	2477.9	2332.6	2256.8	2241.3
10°	3980.3	3801.9	3494.7	3158.5	2744.5	2366.8	2088.7	1943.5	1859.4	1829.3	1819.0
12.5°	4022.9	3796.7	3371.3	2845.2	2270.3	1939.3	1786.8	1769.2	1784.7	1786.8	1785.8
15°	4074.8	3793.6	3215.6	2477.9	1923.8	1741.1	1751.5	1788.9	1825.2	1833.5	1833.5
17.5°	4138.1	3786.3	3003.9	2118.8	1706.9	1702.7	1757.7	1807.5	1841.8	1848.0	1848.0
20°	4204.5	3767.6	2743.5	1826.2	1618.7	1678.9	1738.0	1776.4	1800.3	1808.6	1809.6
22.5°	4250.1	3717.8	2443.6	1609.4	1563.7	1633.2	1675.8	1715.2	1715.2	1694.4	1688.2
25°	4259.5	3610.9	2118.8	1461.0	1498.3	1562.7	1606.2	1583.4	1540.9	1524.3	1523.2
27.5°	4225.2	3455.3	1798.2	1355.1	1419.5	1483.8	1476.5	1443.3	1424.7	1408.1	1414.3
30°	4183.7	3268.5	1520.1	1268.0	1328.2	1391.5	1366.6	1355.1	1341.7	1323.0	1327.1
32.5°	4155.7	3060.0	1306.4	1200.5	1266.9	1277.3	1295.0	1293.9	1281.5	1246.2	1244.1
35°	4164.0	2849.3	1163.2	1145.5	1216.1	1211.9	1245.2	1238.9	1152.8	1104.0	1100.9
37.5°	4230.4	2647.0	1079.1	1102.0	1135.2	1161.1	1190.2	1115.5	1085.4	1054.2	1056.3
40°	4357.0	2459.2	1033.5	1078.1	1086.4	1124.8	1057.3	1056.3	1042.8	1014.8	1013.8
42.5°	4500.2	2300.4	1002.3	1066.7	1055.3	1062.5	990.9	999.2	998.2	980.6	975.4
45°	4587.4	2154.1	977.4	1024.1	1027.3	954.6	932.8	942.2	947.4	938.0	937.0
47.5°	4497.1	1986.0	951.5	958.8	985.7	905.8	878.9	879.9	889.2	890.3	886.1
50°	4243.9	1798.2	920.4	902.7	885.1	855.0	830.1	824.9	834.3	843.6	846.7
52.5°	3917.0	1618.7	868.5	841.5	800.0	800.0	788.6	772.0	784.4	796.9	801.0
55°	3677.4	1485.9	794.8	764.7	719.1	734.6	732.6	718.0	734.6	744.0	747.1
57.5°	3186.6	1194.3	699.4	690.0	651.6	670.3	674.5	655.8	647.5	649.6	652.7
60°	1891.6	771.0	630.9	629.8	595.6	617.4	629.8	611.2	586.3	589.4	593.5
62.5°	848.8	589.4	544.8	540.6	539.6	567.6	581.1	563.4	528.2	531.3	535.4
65°	534.4	509.5	473.2	473.2	489.8	513.6	524.0	509.5	469.0	463.8	468.0
67.5°	496.0	474.2	436.8	429.6	437.9	457.6	458.6	430.6	406.8	402.6	402.6
70°	445.1	428.5	392.2	377.7	374.6	373.5	370.4	363.2	347.6	343.5	345.5
72.5°	368.4	356.9	334.1	318.6	310.3	309.2	296.8	290.5	277.0	275.0	273.9
75°	243.8	247.0	247.0	244.9	237.6	234.5	221.0	214.8	199.2	193.0	192.0
77.5°	144.2	147.3	151.5	152.5	151.5	151.5	139.0	131.8	116.2	107.9	105.8
80°	88.2	90.3	92.3	95.5	91.3	88.2	76.8	69.5	62.3	57.1	56.0
82.5°	57.1	59.1	60.2	62.3	60.2	56.0	46.7	42.5	37.4	33.2	32.2
85°	32.2	33.2	35.3	35.3	32.2	29.1	23.9	20.8	17.6	15.6	15.6
87.5°	11.4	11.4	11.4	12.5	10.4	9.3	6.2	4.2	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)