

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: P638298

Luminaire Tested: GWS-SA4E-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638298
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-SA4E-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28398.9 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

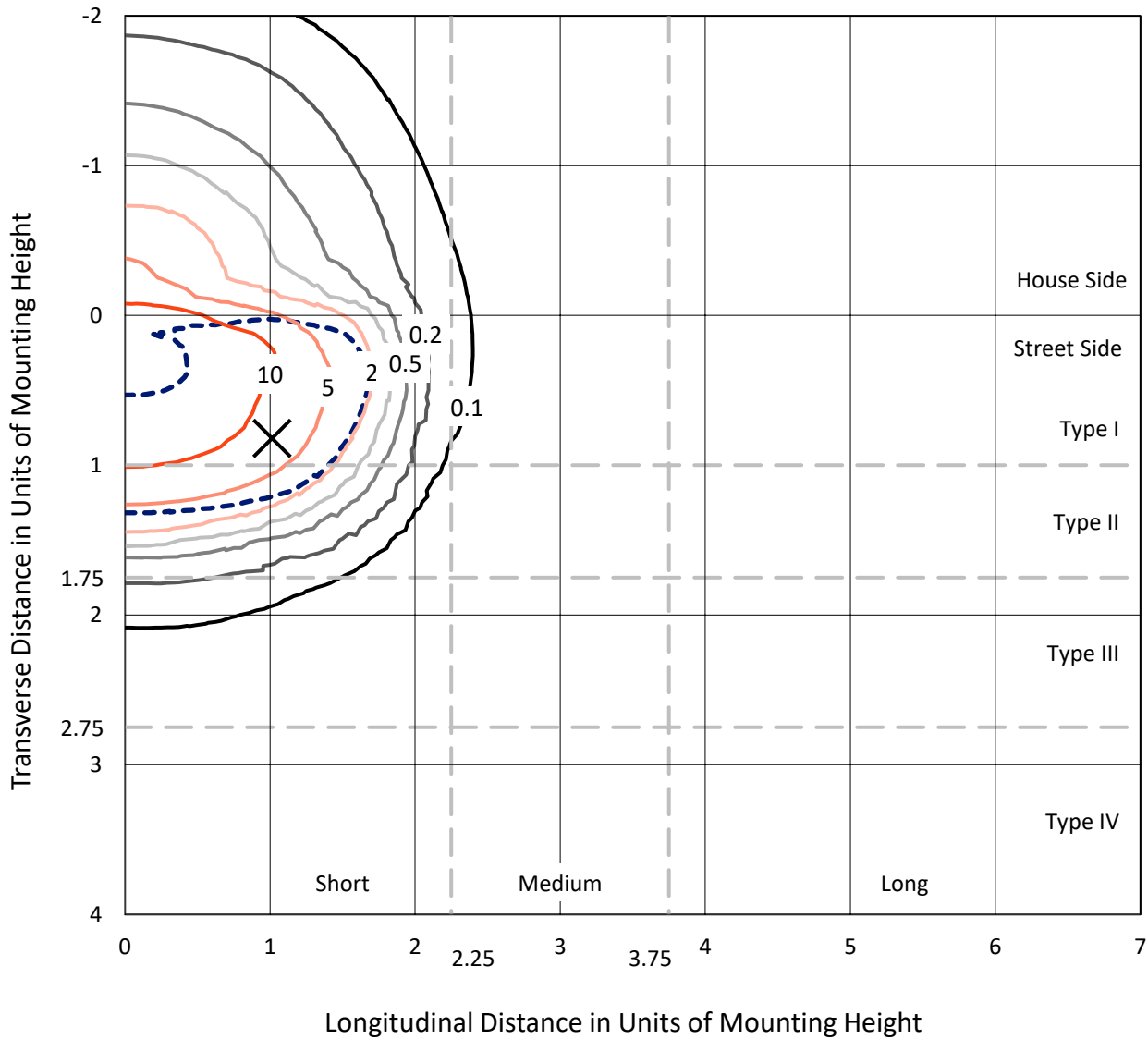
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638298
 CATALOG NUMBER: GWS-SA4E-750-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

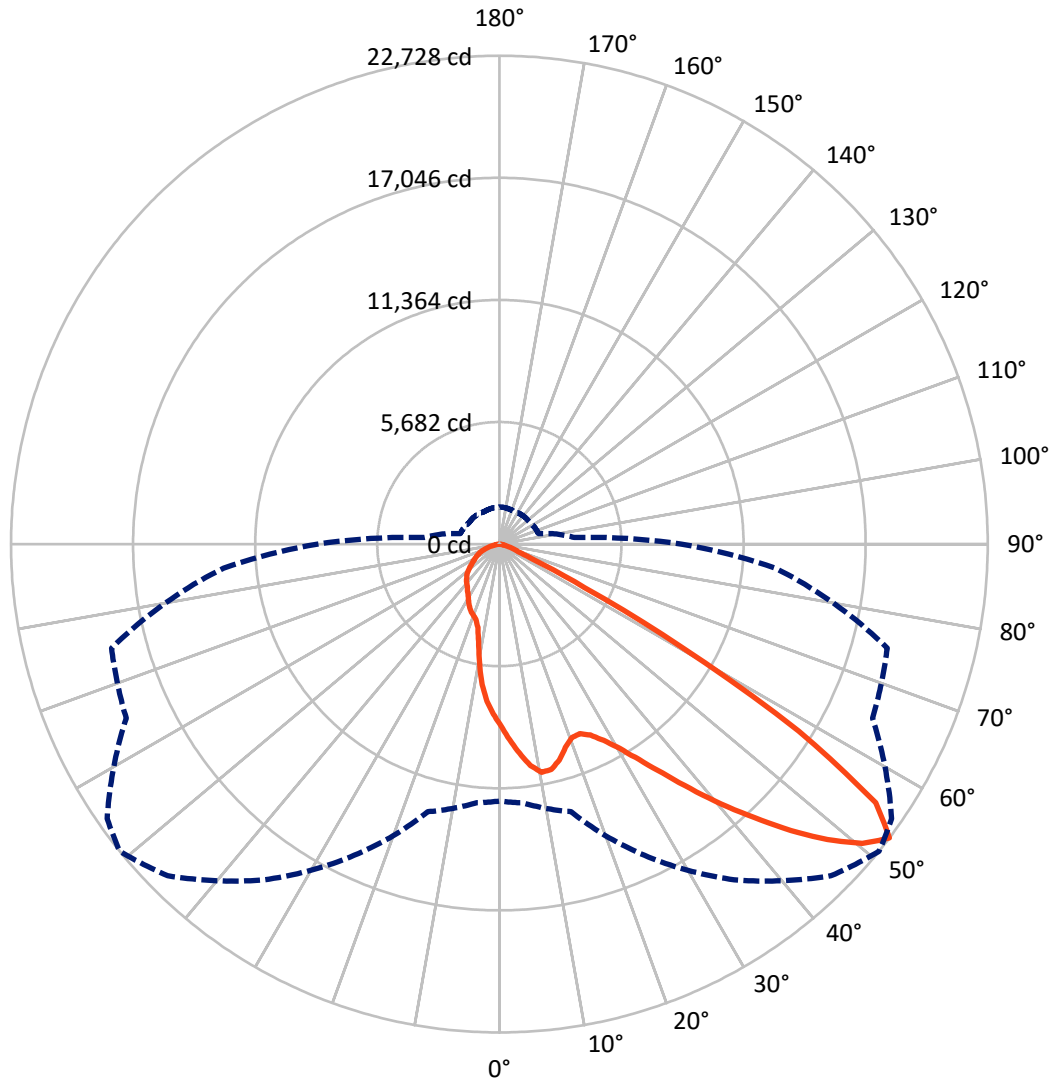
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - N/A

REPORT NUMBER: P638298
CATALOG NUMBER: GWS-SA4E-750-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638298

CATALOG NUMBER: GWS-SA4E-750-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5533.3	0.0	5533.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	22865.6	0.0	22865.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	28398.9	0.0	28398.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.0	2.8
10°-20°	2050.2	7.2
20°-30°	3333.5	11.7
30°-40°	5282.9	18.6
40°-50°	7967.7	28.1
50°-60°	6892.7	24.3
60°-70°	1562.6	5.5
70°-80°	460.8	1.6
80°-90°	59.3	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°	28398.9	100.0
0°-180°	28398.9	100.0

Coefficient of Utilization



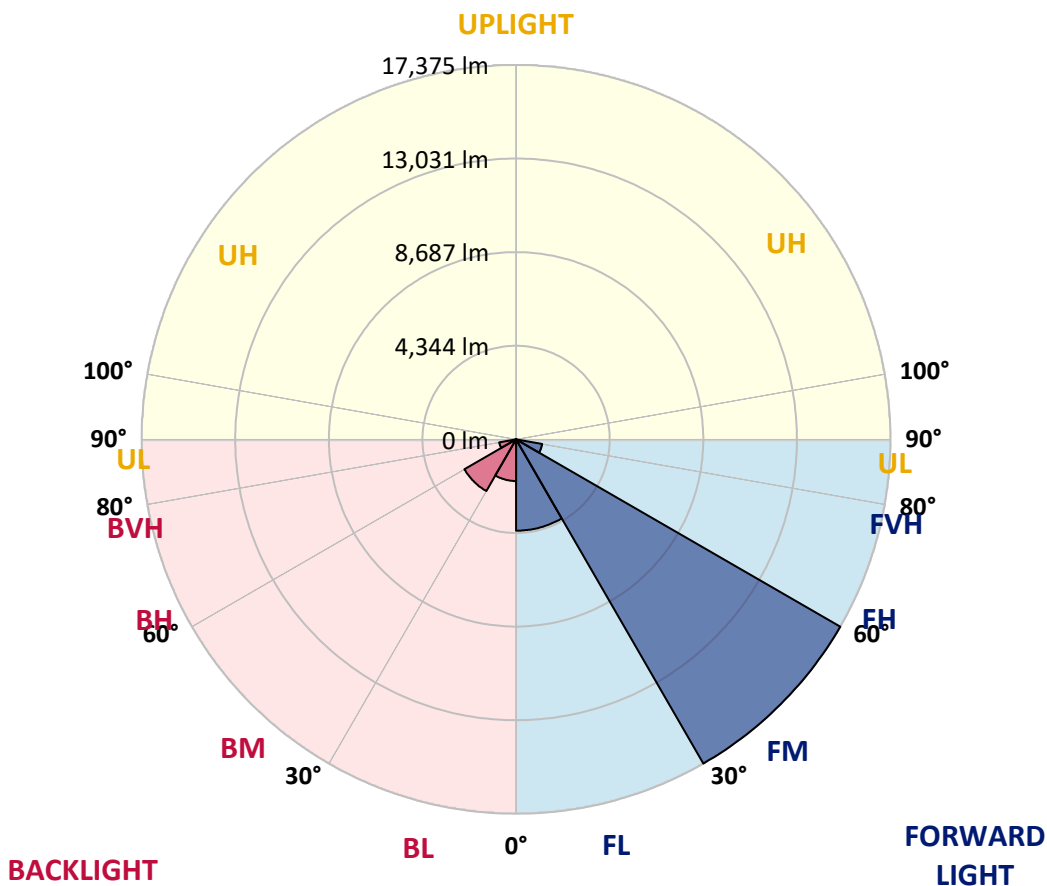
REPORT NUMBER: P638298

CATALOG NUMBER: GWS-SA4E-750-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°)	4238.6	14.9			
FM (30°-60°)	17374.9	61.2			
FH (60°-80°)	1229.8	4.3			G1/1800
FVH (80°-90°)	22.4	0.1			G1/100
BL (0°-30°)	1934.2	6.8	B3/2500		
BM (30°-60°)	2768.5	9.7	B3/5000		
BH (60°-80°)	793.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	37.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P638298

CATALOG NUMBER: GWS-SA4E-750-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8
2.5°	9423.0	9476.8	9393.8	9362.4	9310.8	9221.0	9117.8	9088.6	8866.4	8720.6	8556.8
5°	10370.0	10399.2	10331.8	10264.5	10136.6	9977.3	9777.5	9734.9	9331.0	8996.6	8648.8
7.5°	10580.9	10569.7	10628.1	10666.2	10650.5	10587.7	10410.4	10327.3	9844.9	9315.3	8801.4
10°	9746.1	9683.3	9898.7	10154.6	10462.0	10816.6	10796.4	10789.6	10370.0	9743.9	8996.6
12.5°	8639.8	8608.4	8783.4	9104.3	9685.5	10471.0	10764.9	10993.8	10843.5	10152.3	9214.3
15°	8006.9	7995.7	8114.7	8345.8	8808.1	9800.0	10428.3	10881.6	11249.7	10589.9	9445.4
17.5°	7892.5	7899.2	7939.6	8072.0	8404.2	9221.0	9948.1	10580.9	11566.1	11070.1	9734.9
20°	8226.9	8271.8	8202.2	8222.4	8401.9	9012.3	9620.5	10278.0	11768.1	11552.6	10046.8
22.5°	8969.7	8954.0	8801.4	8711.6	8713.8	9140.2	9584.6	10136.6	11900.5	12021.6	10329.6
25°	9811.2	9793.3	9611.5	9411.8	9286.1	9488.1	9842.6	10287.0	12019.4	12450.3	10556.2
27.5°	10805.3	10749.2	10547.3	10291.4	10013.2	10100.7	10340.8	10693.1	12203.4	12872.2	10706.6
30°	11768.1	11833.1	11543.7	11240.7	10946.7	10892.9	11032.0	11350.7	12578.2	13365.9	10886.1
32.5°	13045.0	13022.5	12701.6	12306.6	11887.0	11846.6	11956.6	12248.3	13251.4	14048.1	11159.9
35°	14591.1	14595.6	14140.1	13606.0	13009.0	12901.3	13085.3	13368.1	14254.5	14972.6	11593.0
37.5°	16197.9	16191.2	15794.0	15188.1	14373.5	14220.9	14431.8	14642.8	15509.0	16231.6	12266.3
40°	17324.5	17369.3	17183.1	16864.4	16092.4	15719.9	15906.2	16052.0	16873.4	17712.7	13152.7
42.5°	17964.0	18031.3	18071.7	18262.5	17856.3	17459.1	17391.8	17468.1	18091.9	19088.3	13985.2
45°	18100.9	18190.7	18484.7	19191.5	19348.6	19236.4	19016.5	18832.5	19000.8	20064.5	14530.5
47.5°	17497.2	17654.3	18282.7	19519.2	20437.0	20789.3	20544.7	20264.2	19525.9	20315.8	14474.4
50°	15105.0	15289.1	16705.1	18850.4	20591.9	21875.5	21897.9	21482.8	19463.1	19591.0	13769.8
52.5°	11958.8	12084.5	12894.6	15980.2	19072.6	21830.6	22728.2	22283.9	19160.1	18684.4	12887.9
55°	7147.5	7349.4	8105.7	10542.8	14858.2	19348.6	21260.6	21476.0	19012.0	17923.6	12286.4
57.5°	2412.4	2511.1	3233.7	4656.5	8756.5	14167.0	16426.8	17302.0	17259.4	16761.2	11112.8
60°	1149.0	1171.4	1317.3	1766.1	3505.3	7403.3	9723.7	10733.5	11653.6	11745.6	6914.1
62.5°	875.2	888.7	962.7	1059.2	1409.3	3119.3	4456.8	5228.8	5585.6	4793.4	2517.9
65°	731.6	742.8	798.9	859.5	958.2	1350.9	1710.0	1972.6	1777.3	1384.6	1200.6
67.5°	610.4	619.4	662.0	727.1	794.4	904.4	949.3	976.2	1023.3	1149.0	1104.1
70°	478.0	487.0	531.9	588.0	653.0	680.0	722.6	749.5	843.8	1005.4	1000.9
72.5°	368.0	379.3	403.9	439.8	493.7	520.6	567.8	599.2	653.0	783.2	837.0
75°	269.3	276.0	298.5	309.7	316.4	309.7	356.8	392.7	464.5	513.9	527.4
77.5°	110.0	123.4	118.9	118.9	141.4	170.6	195.2	217.7	267.0	296.2	298.5
80°	44.9	49.4	58.3	65.1	78.5	101.0	116.7	125.7	148.1	166.1	179.5
82.5°	26.9	29.2	33.7	35.9	44.9	58.3	67.3	74.1	92.0	110.0	116.7
85°	13.5	13.5	15.7	18.0	22.4	26.9	31.4	35.9	47.1	58.3	65.1
87.5°	2.2	2.2	2.2	4.5	6.7	9.0	11.2	13.5	15.7	18.0	22.4
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: P638298

CATALOG NUMBER: GWS-SA4E-750-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8	8455.8
2.5°	8460.3	8339.1	8197.7	8085.5	7955.3	7858.8	7721.9	7636.7	7555.9	7488.6	7439.2
5°	8469.2	8265.0	7971.0	7710.7	7441.4	7185.6	6923.0	6709.9	6519.1	6359.8	6346.3
7.5°	8520.8	8226.9	7766.8	7311.3	6786.2	6279.0	5771.8	5358.9	5044.7	4880.9	4847.3
10°	8608.4	8222.4	7558.1	6831.0	5935.6	5118.8	4517.4	4203.2	4021.4	3956.3	3933.9
12.5°	8700.4	8211.2	7291.1	6153.3	4910.1	4194.2	3864.3	3826.2	3859.9	3864.3	3862.1
15°	8812.6	8204.4	6954.5	5358.9	4160.6	3765.6	3788.0	3868.8	3947.4	3965.3	3965.3
17.5°	8949.5	8188.7	6496.7	4582.5	3691.5	3682.6	3801.5	3909.2	3983.3	3996.7	3996.7
20°	9093.1	8148.3	5933.4	3949.6	3500.8	3631.0	3758.9	3841.9	3893.5	3911.5	3913.7
22.5°	9191.8	8040.6	5284.9	3480.6	3381.9	3532.2	3624.2	3709.5	3709.5	3664.6	3651.2
25°	9212.0	7809.5	4582.5	3159.7	3240.5	3379.6	3473.9	3424.5	3332.5	3296.6	3294.3
27.5°	9138.0	7472.9	3889.0	2930.8	3069.9	3209.1	3193.4	3121.5	3081.1	3045.2	3058.7
30°	9048.2	7068.9	3287.6	2742.3	2872.4	3009.3	2955.5	2930.8	2901.6	2861.2	2870.2
32.5°	8987.6	6617.9	2825.3	2596.4	2740.0	2762.5	2800.6	2798.4	2771.5	2695.2	2690.7
35°	9005.6	6162.3	2515.6	2477.5	2630.1	2621.1	2692.9	2679.5	2493.2	2387.7	2381.0
37.5°	9149.2	5724.7	2333.9	2383.2	2455.0	2511.1	2574.0	2412.4	2347.3	2280.0	2284.5
40°	9423.0	5318.5	2235.1	2331.6	2349.6	2432.6	2286.7	2284.5	2255.3	2194.7	2192.5
42.5°	9732.7	4975.2	2167.8	2306.9	2282.2	2298.0	2143.1	2161.1	2158.8	2120.7	2109.5
45°	9921.2	4658.8	2113.9	2214.9	2221.7	2064.6	2017.4	2037.6	2048.9	2028.7	2026.4
47.5°	9725.9	4295.2	2057.8	2073.5	2131.9	1959.1	1900.8	1903.0	1923.2	1925.4	1916.5
50°	9178.4	3889.0	1990.5	1952.4	1914.2	1849.1	1795.3	1784.1	1804.3	1824.5	1831.2
52.5°	8471.5	3500.8	1878.3	1820.0	1730.2	1730.2	1705.5	1669.6	1696.5	1723.5	1732.4
55°	7953.1	3213.6	1719.0	1653.9	1555.2	1588.8	1584.3	1552.9	1588.8	1609.0	1615.8
57.5°	6891.6	2583.0	1512.5	1492.3	1409.3	1449.7	1458.7	1418.3	1400.3	1404.8	1411.5
60°	4091.0	1667.4	1364.4	1362.2	1288.1	1335.2	1362.2	1321.8	1267.9	1274.6	1283.6
62.5°	1835.7	1274.6	1178.2	1169.2	1166.9	1227.5	1256.7	1218.5	1142.2	1149.0	1158.0
65°	1155.7	1101.9	1023.3	1023.3	1059.2	1110.8	1133.3	1101.9	1014.3	1003.1	1012.1
67.5°	1072.7	1025.6	944.8	929.1	947.0	989.6	991.9	931.3	879.7	870.7	870.7
70°	962.7	926.8	848.3	816.9	810.1	807.9	801.1	785.4	751.8	742.8	747.3
72.5°	796.7	772.0	722.6	688.9	671.0	668.7	641.8	628.3	599.2	594.7	592.4
75°	527.4	534.1	534.1	529.6	513.9	507.2	478.0	464.5	430.9	417.4	415.2
77.5°	311.9	318.7	327.6	329.9	327.6	327.6	300.7	285.0	251.3	233.4	228.9
80°	190.7	195.2	199.7	206.5	197.5	190.7	166.1	150.4	134.6	123.4	121.2
82.5°	123.4	127.9	130.2	134.6	130.2	121.2	101.0	92.0	80.8	71.8	69.6
85°	69.6	71.8	76.3	76.3	69.6	62.8	51.6	44.9	38.1	33.7	33.7
87.5°	24.7	24.7	24.7	26.9	22.4	20.2	13.5	9.0	6.7	6.7	6.7
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)