

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: P638023

Luminaire Tested: GWS-SA4E-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638023
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-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20449.9 lumens
Efficiency: N/A
Efficacy: 100.9 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

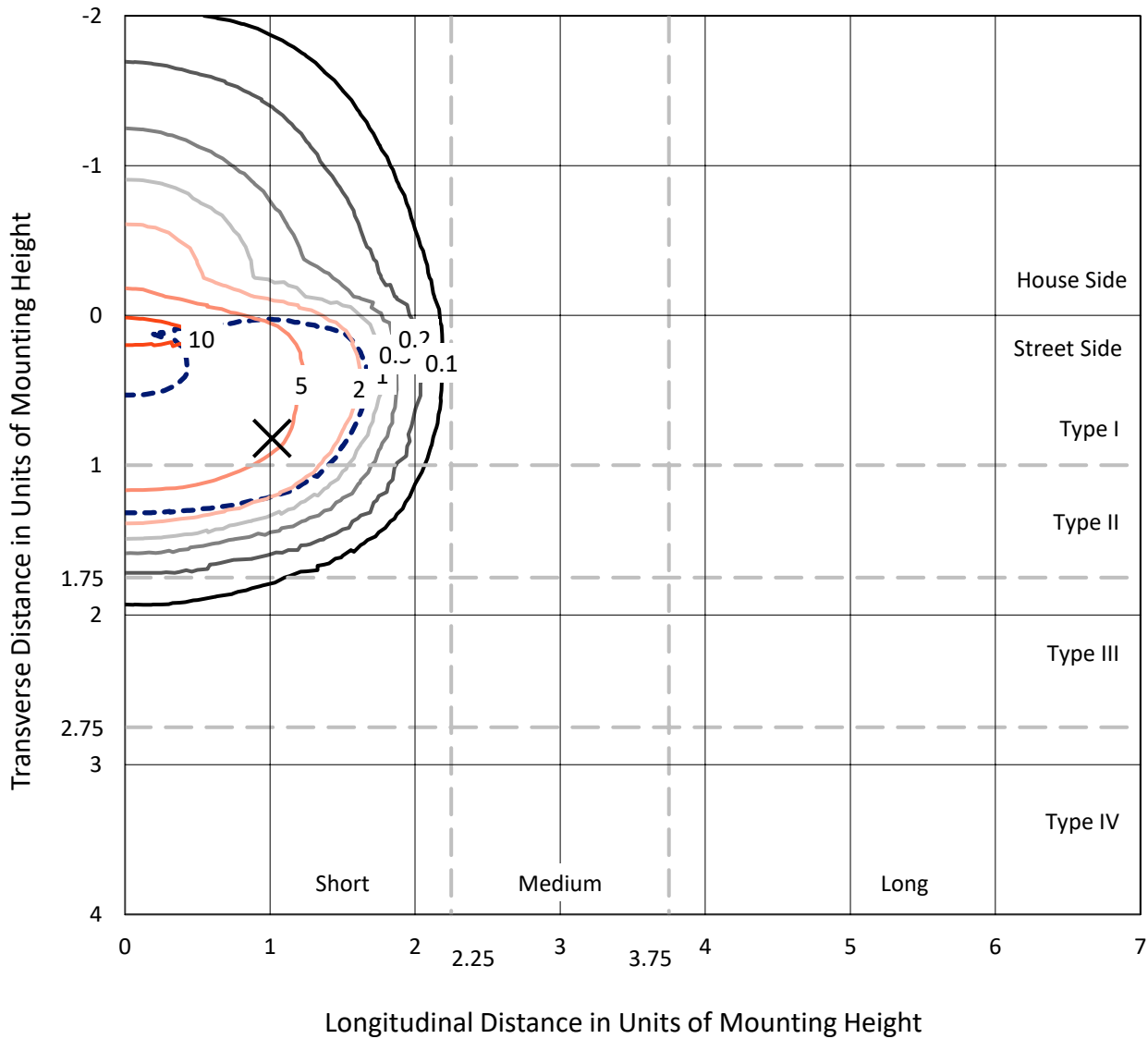


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Iso-Footcandle Lines of Horizontal Illumination

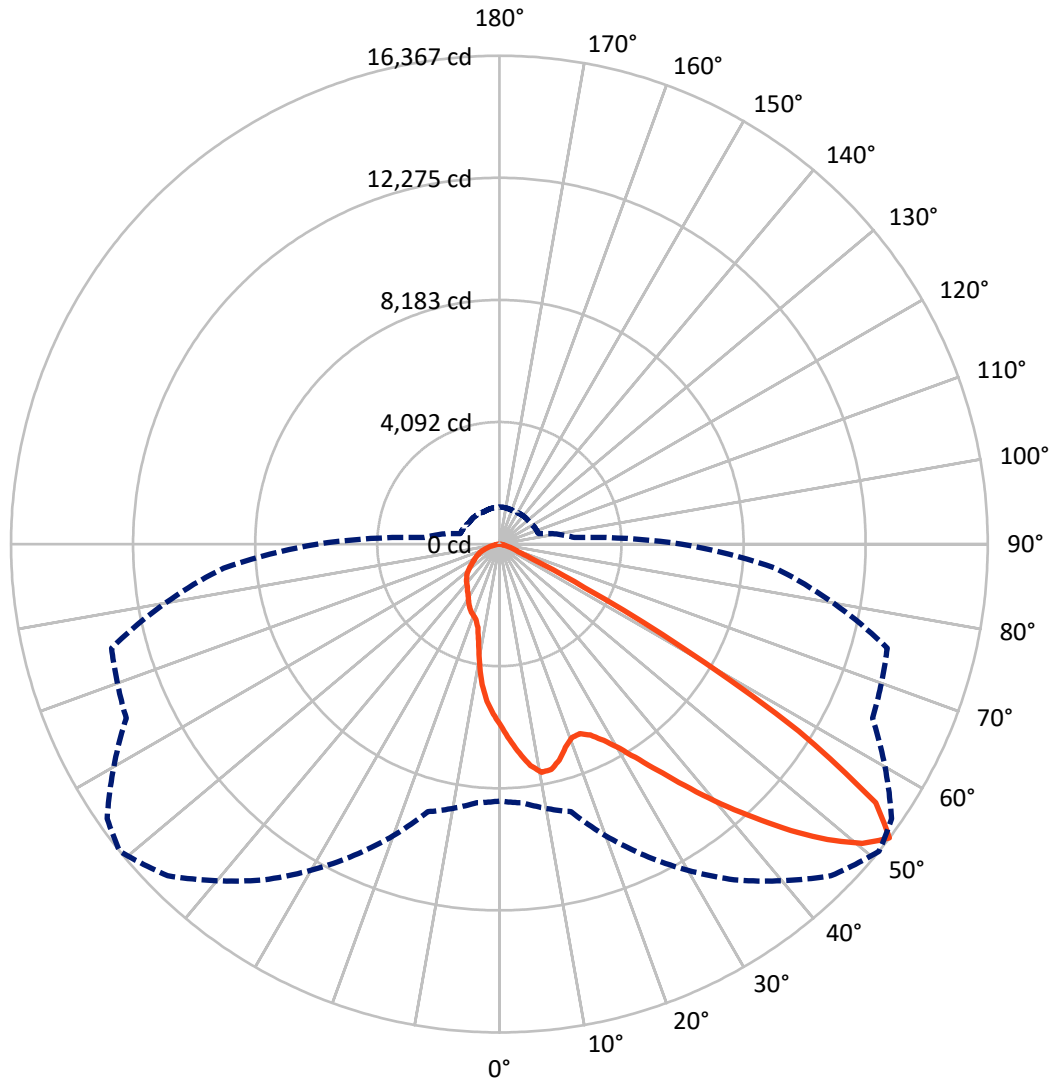
✕ Max cd
 - - - 1/2 Max cd



Based on 25 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	3984.5	0.0	3984.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16465.4	0.0	16465.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	20449.9	0.0	20449.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.2	2.8
10°-20°	1476.4	7.2
20°-30°	2400.5	11.7
30°-40°	3804.2	18.6
40°-50°	5737.5	28.1
50°-60°	4963.4	24.3
60°-70°	1125.2	5.5
70°-80°	331.8	1.6
80°-90°	42.7	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°	20449.9	100.0
0°-180°	20449.9	100.0

Coefficient of Utilization



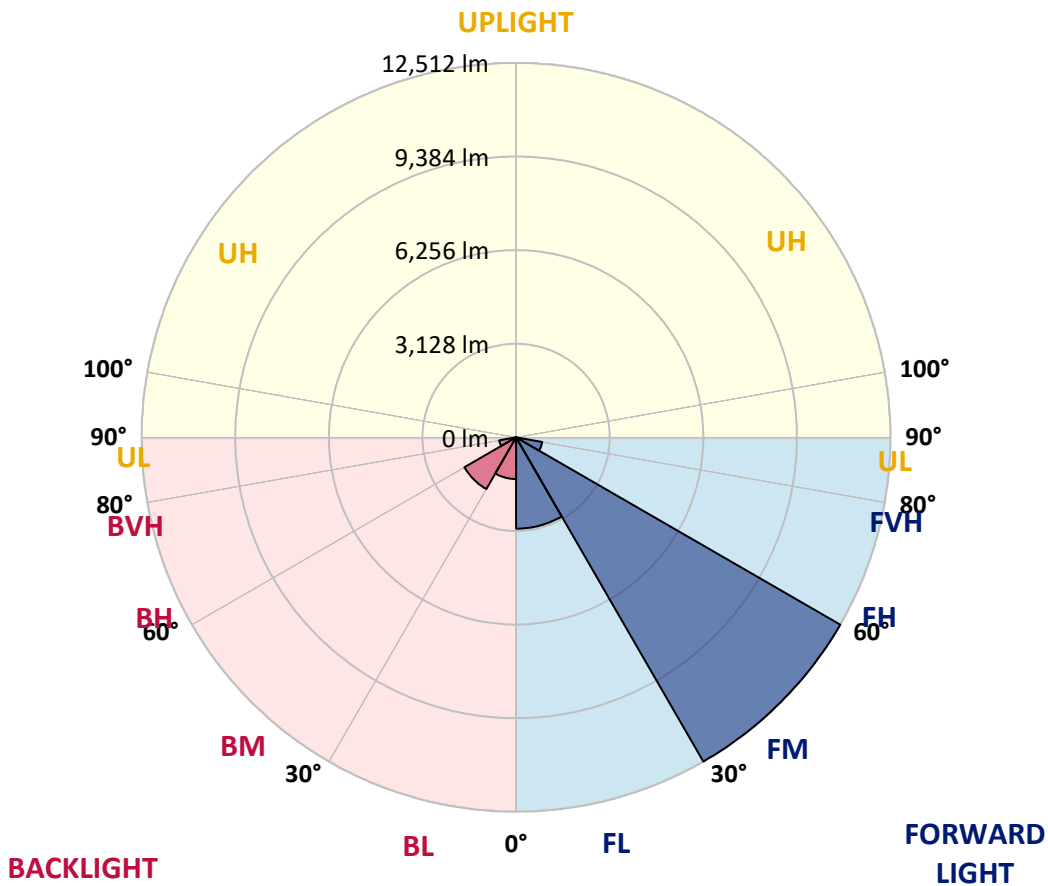
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3052.2	14.9			
FM (30°-60°)	12511.6	61.2			
FH (60°-80°)	885.6	4.3			G1/1800
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	1392.8	6.8	B3/2500		
BM (30°-60°)	1993.6	9.7	B2/2500		
BH (60°-80°)	571.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0
2.5°	6785.4	6824.2	6764.4	6741.8	6704.6	6640.0	6565.7	6544.7	6384.7	6279.6	6161.7
5°	7467.4	7488.4	7439.9	7391.4	7299.3	7184.6	7040.8	7010.1	6719.2	6478.4	6227.9
7.5°	7619.3	7611.2	7653.2	7680.7	7669.4	7624.1	7496.5	7436.7	7089.2	6707.9	6337.8
10°	7018.1	6972.9	7128.0	7312.2	7533.6	7789.0	7774.4	7769.6	7467.4	7016.5	6478.4
12.5°	6221.5	6198.8	6324.9	6556.0	6974.5	7540.1	7751.8	7916.6	7808.3	7310.6	6635.2
15°	5765.8	5757.7	5843.3	6009.8	6342.7	7056.9	7509.4	7835.8	8100.8	7625.7	6801.6
17.5°	5683.3	5688.2	5717.3	5812.6	6051.8	6640.0	7163.6	7619.3	8328.7	7971.6	7010.1
20°	5924.1	5956.4	5906.4	5920.9	6050.2	6489.7	6927.6	7401.1	8474.1	8319.0	7234.7
22.5°	6459.0	6447.7	6337.8	6273.2	6274.8	6581.8	6901.8	7299.3	8569.5	8656.7	7438.3
25°	7065.0	7052.1	6921.2	6777.4	6686.9	6832.3	7087.6	7407.6	8655.1	8965.4	7601.5
27.5°	7780.9	7740.5	7595.0	7410.8	7210.4	7273.5	7446.4	7700.1	8787.6	9269.2	7709.8
30°	8474.1	8521.0	8312.5	8094.4	7882.7	7843.9	7944.1	8173.6	9057.5	9624.7	7839.0
32.5°	9393.6	9377.4	9146.4	8862.0	8559.8	8530.7	8609.9	8819.9	9542.3	10115.9	8036.2
35°	10507.0	10510.2	10182.2	9797.6	9367.7	9290.2	9422.7	9626.3	10264.6	10781.7	8348.1
37.5°	11664.0	11659.2	11373.2	10936.9	10350.3	10240.4	10392.3	10544.2	11167.9	11688.3	8832.9
40°	12475.2	12507.6	12373.4	12144.0	11588.1	11319.8	11454.0	11559.0	12150.4	12754.8	9471.2
42.5°	12935.8	12984.3	13013.4	13150.7	12858.2	12572.2	12523.7	12578.7	13027.9	13745.4	10070.7
45°	13034.4	13099.0	13310.7	13819.7	13932.8	13852.1	13693.7	13561.2	13682.4	14448.3	10463.4
47.5°	12599.7	12712.8	13165.3	14055.7	14716.6	14970.3	14794.2	14592.2	14060.5	14629.3	10423.0
50°	10877.1	11009.6	12029.2	13574.1	14828.1	15752.4	15768.6	15469.6	14015.3	14107.4	9915.6
52.5°	8611.5	8702.0	9285.3	11507.3	13734.1	15720.1	16366.5	16046.5	13797.1	13454.5	9280.5
55°	5146.8	5292.3	5836.9	7591.8	10699.3	13932.8	15309.7	15464.8	13690.5	12906.7	8847.4
57.5°	1737.2	1808.3	2328.6	3353.1	6305.5	10201.6	11828.9	12459.1	12428.4	12069.6	8002.3
60°	827.4	843.5	948.6	1271.8	2524.1	5331.1	7002.0	7729.2	8391.7	8458.0	4978.8
62.5°	630.2	639.9	693.2	762.7	1014.8	2246.2	3209.3	3765.2	4022.1	3451.7	1813.1
65°	526.8	534.9	575.3	618.9	690.0	972.8	1231.4	1420.4	1279.8	997.1	864.5
67.5°	439.5	446.0	476.7	523.6	572.1	651.2	683.6	702.9	736.9	827.4	795.1
70°	344.2	350.7	383.0	423.4	470.2	489.6	520.3	539.7	607.6	724.0	720.7
72.5°	265.0	273.1	290.9	316.7	355.5	374.9	408.8	431.5	470.2	564.0	602.8
75°	193.9	198.8	214.9	223.0	227.9	223.0	256.9	282.8	334.5	370.1	379.8
77.5°	79.2	88.9	85.6	85.6	101.8	122.8	140.6	156.7	192.3	213.3	214.9
80°	32.3	35.6	42.0	46.9	56.6	72.7	84.0	90.5	106.7	119.6	129.3
82.5°	19.4	21.0	24.2	25.9	32.3	42.0	48.5	53.3	66.3	79.2	84.0
85°	9.7	9.7	11.3	12.9	16.2	19.4	22.6	25.9	33.9	42.0	46.9
87.5°	1.6	1.6	1.6	3.2	4.8	6.5	8.1	9.7	11.3	12.9	16.2
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°	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0
2.5°	6092.2	6004.9	5903.1	5822.3	5728.6	5659.1	5560.5	5499.1	5441.0	5392.5	5356.9
5°	6098.7	5951.6	5739.9	5552.5	5358.5	5174.3	4985.3	4831.7	4694.4	4579.6	4569.9
7.5°	6135.8	5924.1	5592.9	5264.8	4886.7	4521.5	4156.3	3858.9	3632.7	3514.7	3490.5
10°	6198.8	5920.9	5442.6	4919.0	4274.2	3686.0	3252.9	3026.7	2895.8	2848.9	2832.8
12.5°	6265.1	5912.8	5250.3	4431.0	3535.7	3020.2	2782.7	2755.2	2779.5	2782.7	2781.1
15°	6345.9	5908.0	5007.9	3858.9	2996.0	2711.6	2727.7	2785.9	2842.5	2855.4	2855.4
17.5°	6444.5	5896.7	4678.2	3299.8	2658.3	2651.8	2737.4	2815.0	2868.3	2878.0	2878.0
20°	6547.9	5867.6	4272.6	2844.1	2520.9	2614.6	2706.7	2766.5	2803.7	2816.6	2818.2
22.5°	6619.0	5790.0	3805.6	2506.4	2435.3	2543.5	2609.8	2671.2	2671.2	2638.9	2629.2
25°	6633.5	5623.6	3299.8	2275.3	2333.5	2433.6	2501.5	2466.0	2399.7	2373.9	2372.2
27.5°	6580.2	5381.2	2800.5	2110.5	2210.6	2310.8	2299.5	2247.8	2218.7	2192.9	2202.6
30°	6515.6	5090.3	2367.4	1974.7	2068.4	2167.0	2128.2	2110.5	2089.4	2060.4	2066.8
32.5°	6471.9	4765.5	2034.5	1869.7	1973.1	1989.3	2016.7	2015.1	1995.7	1940.8	1937.5
35°	6484.9	4437.4	1811.5	1784.0	1893.9	1887.4	1939.2	1929.5	1795.3	1719.4	1714.5
37.5°	6588.3	4122.3	1680.6	1716.2	1767.9	1808.3	1853.5	1737.2	1690.3	1641.8	1645.1
40°	6785.4	3829.8	1609.5	1679.0	1691.9	1751.7	1646.7	1645.1	1624.0	1580.4	1578.8
42.5°	7008.4	3582.6	1561.0	1661.2	1643.4	1654.7	1543.2	1556.2	1554.6	1527.1	1519.0
45°	7144.2	3354.7	1522.2	1595.0	1599.8	1486.7	1452.8	1467.3	1475.4	1460.8	1459.2
47.5°	7003.6	3093.0	1481.8	1493.2	1535.2	1410.7	1368.7	1370.3	1384.9	1386.5	1380.0
50°	6609.3	2800.5	1433.4	1405.9	1378.4	1331.6	1292.8	1284.7	1299.2	1313.8	1318.6
52.5°	6100.3	2520.9	1352.6	1310.5	1245.9	1245.9	1228.1	1202.3	1221.7	1241.1	1247.5
55°	5727.0	2314.1	1237.8	1191.0	1119.9	1144.1	1140.9	1118.2	1144.1	1158.6	1163.5
57.5°	4962.6	1860.0	1089.2	1074.6	1014.8	1043.9	1050.4	1021.3	1008.4	1011.6	1016.4
60°	2945.9	1200.7	982.5	980.9	927.6	961.5	980.9	951.8	913.0	917.9	924.3
62.5°	1321.9	917.9	848.4	841.9	840.3	883.9	904.9	877.5	822.5	827.4	833.8
65°	832.2	793.4	736.9	736.9	762.7	799.9	816.1	793.4	730.4	722.3	728.8
67.5°	772.4	738.5	680.3	669.0	681.9	712.6	714.3	670.6	633.5	627.0	627.0
70°	693.2	667.4	610.8	588.2	583.4	581.7	576.9	565.6	541.3	534.9	538.1
72.5°	573.7	555.9	520.3	496.1	483.2	481.6	462.2	452.5	431.5	428.2	426.6
75°	379.8	384.6	384.6	381.4	370.1	365.2	344.2	334.5	310.3	300.6	299.0
77.5°	224.6	229.5	235.9	237.5	235.9	235.9	216.5	205.2	181.0	168.1	164.8
80°	137.4	140.6	143.8	148.7	142.2	137.4	119.6	108.3	97.0	88.9	87.3
82.5°	88.9	92.1	93.7	97.0	93.7	87.3	72.7	66.3	58.2	51.7	50.1
85°	50.1	51.7	54.9	54.9	50.1	45.2	37.2	32.3	27.5	24.2	24.2
87.5°	17.8	17.8	17.8	19.4	16.2	14.5	9.7	6.5	4.8	4.8	4.8
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)