

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: P635275

Luminaire Tested: GWS-SA3D-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17920.5 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

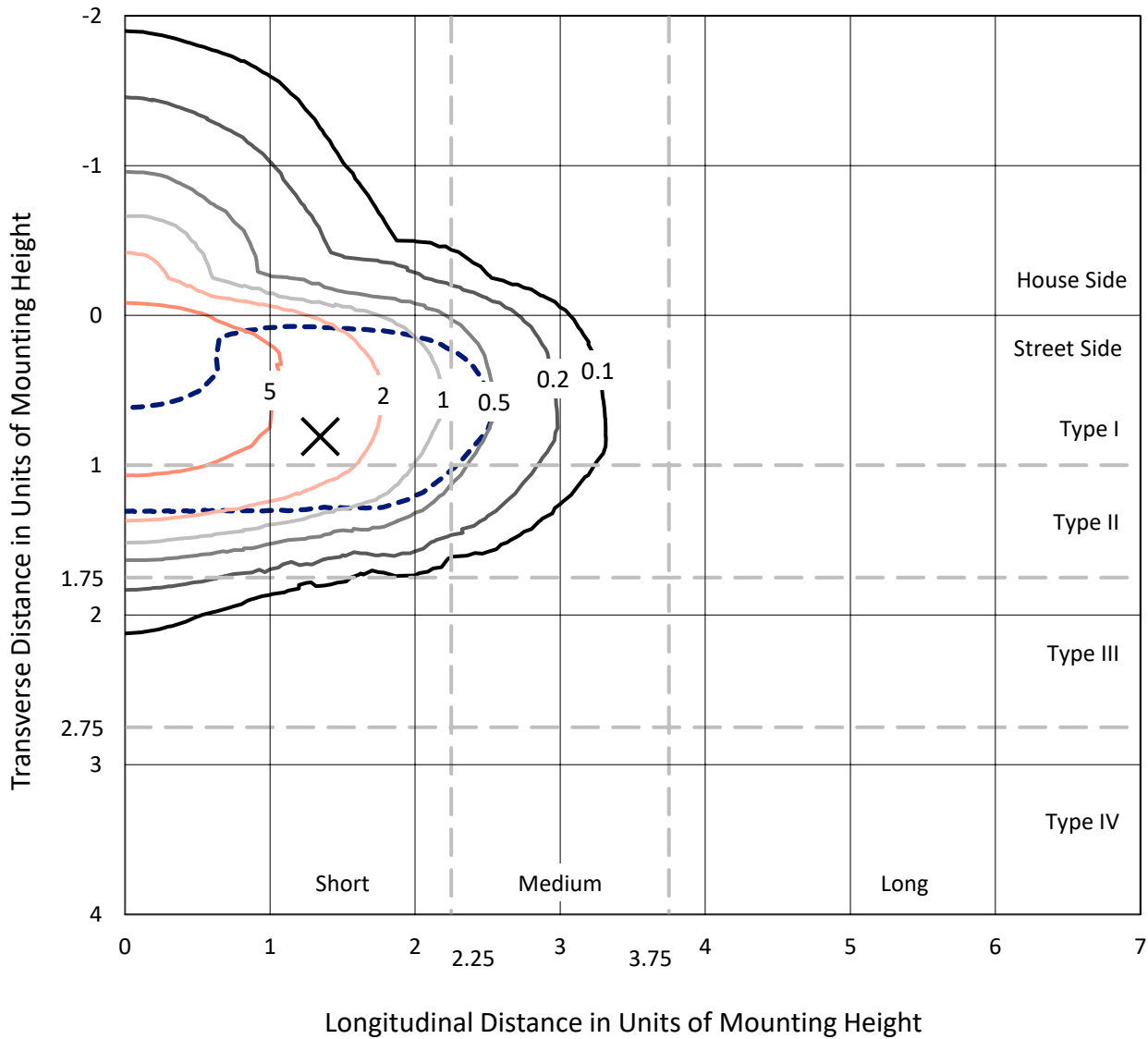
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

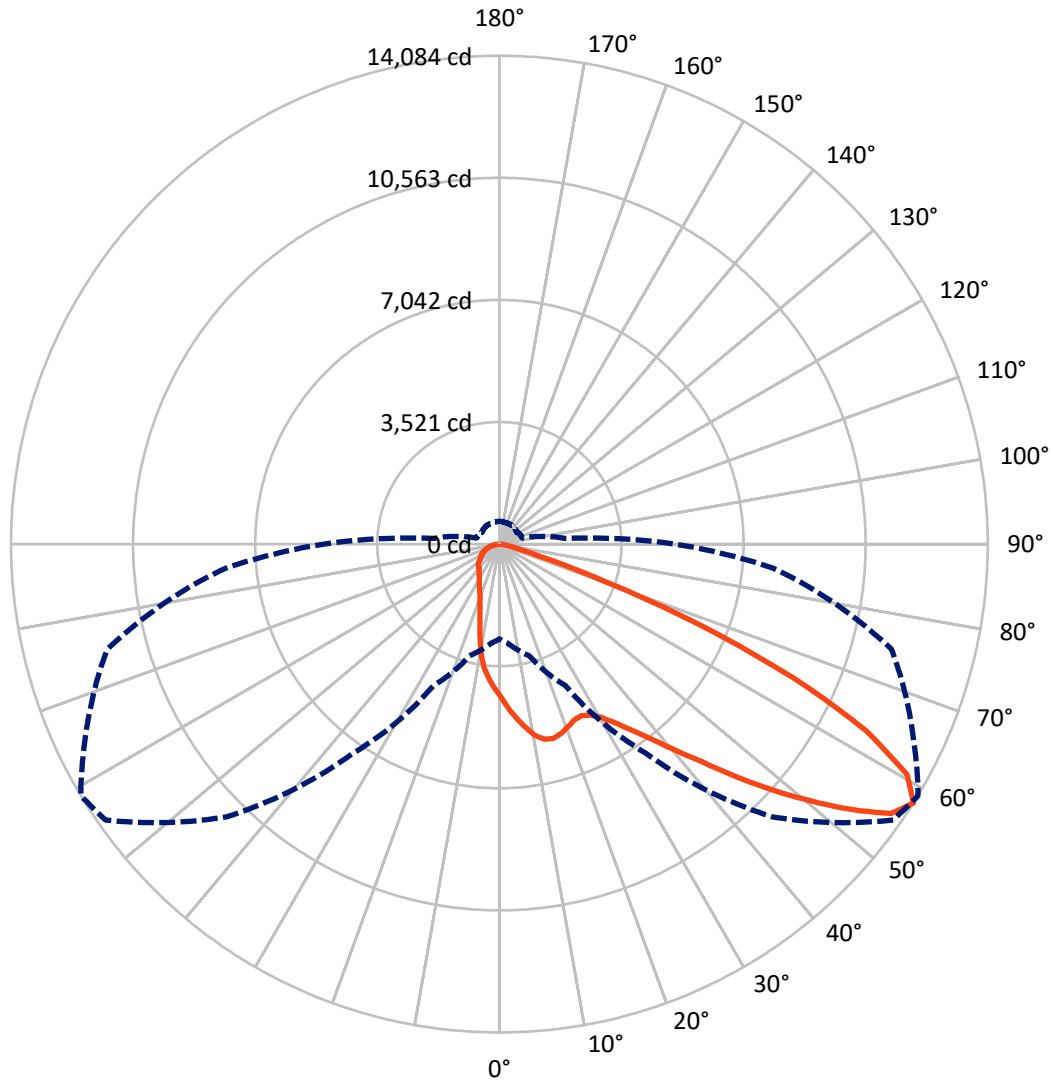
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2781.2	0.0	2781.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15139.3	0.0	15139.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	17920.5	0.0	17920.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.5	2.3
10°-20°	1035.1	5.8
20°-30°	1677.8	9.4
30°-40°	2699.0	15.1
40°-50°	4191.3	23.4
50°-60°	4514.6	25.2
60°-70°	2620.1	14.6
70°-80°	684.0	3.8
80°-90°	90.1	0.5
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°	17920.5	100.0
0°-180°	17920.5	100.0

Coefficient of Utilization



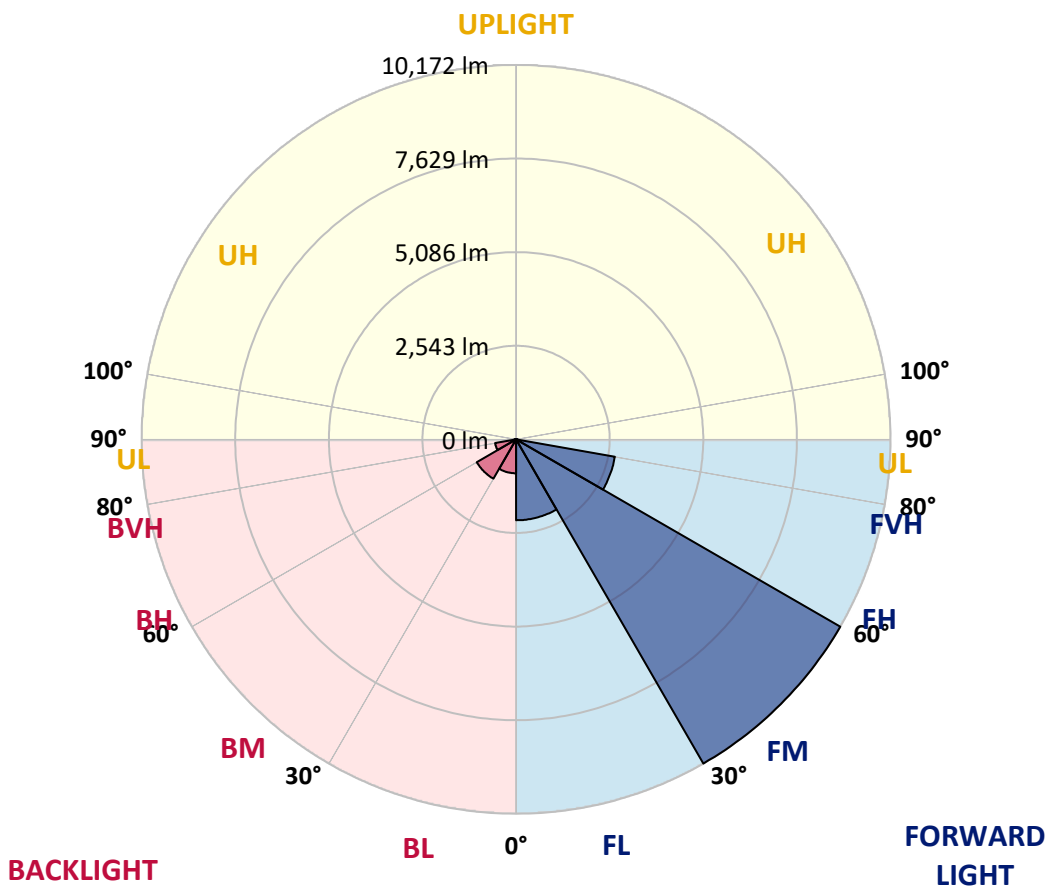
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2198.7	12.3			
FM (30°-60°)	10171.9	56.8			
FH (60°-80°)	2725.6	15.2			G2/5000
FVH (80°-90°)	43.1	0.2			G1/100
BL (0°-30°)	922.7	5.1	B2/1000		
BM (30°-60°)	1233.1	6.9	B2/2500		
BH (60°-80°)	578.5	3.2	B2/1000		G2/1000
BVH (80°-90°)	47.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1
2.5°	4989.5	4947.9	4976.9	4925.2	4903.8	4847.0	4773.8	4724.6	4648.9	4550.5	4464.7
5°	5485.3	5456.3	5462.6	5407.1	5357.9	5263.3	5113.2	5029.9	4901.2	4703.2	4519.0
7.5°	5470.2	5504.3	5523.2	5571.1	5585.0	5576.2	5441.2	5325.1	5183.8	4886.1	4608.5
10°	4903.8	4968.1	5026.1	5190.1	5389.5	5641.8	5673.3	5603.9	5461.4	5119.5	4715.8
12.5°	4286.8	4336.0	4387.8	4584.6	4889.9	5394.5	5736.4	5779.3	5722.5	5350.4	4836.9
15°	3984.1	4006.8	4056.0	4185.9	4429.4	4989.5	5626.6	5814.6	5916.8	5595.1	4973.1
17.5°	3971.4	3981.5	4005.5	4074.9	4244.0	4676.7	5428.6	5744.0	6069.5	5853.7	5132.1
20°	4232.6	4206.1	4191.0	4189.7	4273.0	4572.0	5236.8	5630.4	6141.4	6118.7	5302.4
22.5°	4594.7	4603.5	4570.7	4490.0	4479.9	4646.4	5140.9	5515.6	6162.8	6353.3	5460.1
25°	5108.1	5152.3	5055.1	4901.2	4825.5	4862.1	5200.2	5480.3	6160.3	6548.9	5558.5
27.5°	5707.4	5741.4	5643.0	5441.2	5284.8	5196.4	5376.8	5585.0	6181.7	6717.9	5617.8
30°	6389.9	6401.2	6266.3	6054.3	5826.0	5636.7	5670.8	5800.7	6291.5	6939.9	5687.2
32.5°	7223.8	7271.7	7067.4	6731.8	6412.6	6170.4	6065.7	6148.9	6528.7	7202.4	5794.4
35°	8282.3	8298.7	8038.8	7558.1	7106.5	6770.9	6551.4	6595.5	6889.5	7569.5	5955.9
37.5°	9280.2	9296.6	9020.3	8573.7	7927.8	7468.5	7150.6	7130.4	7351.2	8088.0	6219.6
40°	9913.5	9960.2	9836.5	9556.5	8939.5	8320.1	7888.7	7819.3	7956.8	8722.6	6586.7
42.5°	10254.1	10274.3	10271.8	10308.4	9941.2	9325.6	8721.3	8582.5	8674.6	9407.6	6957.6
45°	10256.6	10307.1	10442.1	10794.1	10810.5	10426.9	9773.4	9556.5	9471.9	10097.7	7344.9
47.5°	9797.4	9851.7	10222.6	10915.2	11426.1	11513.2	11033.8	10598.5	10242.8	10691.9	7662.8
50°	8407.2	8543.4	9249.9	10474.9	11547.2	12383.7	12236.1	11645.6	10927.8	11151.1	7862.2
52.5°	7199.8	7194.8	7630.0	9231.0	11041.3	12767.2	13399.2	12723.0	11605.3	11442.5	7912.6
55°	5272.1	5301.2	5746.5	7059.8	9691.4	12396.3	14038.8	13714.6	12382.4	11597.7	7892.4
57.5°	2733.8	2877.7	3334.4	4505.1	7363.8	11119.6	13868.5	14084.3	13172.1	11707.4	7918.9
60°	1381.4	1353.7	1517.7	2151.0	4266.7	8684.7	12818.9	13506.5	13314.7	11793.2	7935.3
62.5°	922.2	914.6	869.2	996.6	1743.5	5143.5	10927.8	11891.6	12324.4	11591.4	7725.9
65°	798.6	783.4	700.2	695.1	846.5	2133.3	8009.8	9348.3	10186.0	10694.4	7225.1
67.5°	719.1	696.4	611.9	570.2	608.1	937.4	4513.9	6270.0	7521.5	9044.3	6127.5
70°	642.1	630.8	546.3	485.7	481.9	571.5	1662.8	3235.9	4602.2	6170.4	4479.9
72.5°	575.3	555.1	483.2	425.2	396.1	405.0	721.6	1246.4	2381.9	3849.1	2679.6
75°	498.3	483.2	420.1	362.1	326.7	296.5	440.3	576.5	1086.2	1829.3	1265.4
77.5°	384.8	374.7	331.8	287.6	267.5	220.8	267.5	363.3	502.1	770.8	658.5
80°	223.3	229.6	247.3	224.6	196.8	157.7	174.1	209.4	301.5	417.6	373.4
82.5°	112.3	119.8	160.2	129.9	117.3	92.1	103.4	123.6	157.7	230.9	146.3
85°	8.8	8.8	29.0	32.8	40.4	32.8	41.6	50.5	71.9	92.1	49.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.3	11.4	21.4	13.9
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°	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1	4399.1
2.5°	4406.7	4342.4	4265.4	4202.3	4105.2	4053.5	3987.8	3907.1	3874.3	3859.2	3850.3
5°	4415.5	4302.0	4138.0	3986.6	3818.8	3686.3	3538.7	3384.8	3296.5	3275.1	3259.9
7.5°	4448.3	4289.4	4028.2	3778.4	3466.8	3177.9	2896.6	2617.8	2475.2	2421.0	2415.9
10°	4493.7	4284.3	3917.2	3502.1	2976.1	2519.4	2190.1	1971.8	1879.8	1849.5	1839.4
12.5°	4550.5	4280.5	3770.9	3118.6	2409.6	1978.2	1790.2	1754.9	1767.5	1764.9	1764.9
15°	4622.4	4285.6	3594.2	2684.6	1949.1	1717.0	1720.8	1762.4	1801.5	1807.8	1807.8
17.5°	4700.6	4280.5	3338.1	2249.4	1672.9	1655.2	1713.2	1771.3	1806.6	1811.6	1811.6
20°	4785.2	4256.6	3015.2	1839.4	1551.7	1616.1	1679.2	1724.6	1746.0	1751.1	1751.1
22.5°	4835.6	4188.4	2664.5	1556.8	1474.8	1554.3	1595.9	1642.6	1645.1	1604.7	1603.5
25°	4828.1	4061.0	2264.5	1375.1	1392.8	1462.2	1515.2	1482.4	1442.0	1419.3	1415.5
27.5°	4780.1	3869.3	1857.0	1237.6	1295.6	1373.9	1357.5	1329.7	1319.6	1294.4	1291.9
30°	4719.6	3633.3	1491.2	1130.4	1194.7	1266.6	1241.4	1238.9	1228.8	1201.0	1201.0
32.5°	4661.5	3389.9	1214.9	1050.9	1130.4	1135.4	1170.7	1173.3	1168.2	1120.3	1115.2
35°	4645.1	3146.4	1028.2	987.8	1067.3	1064.8	1115.2	1114.0	1026.9	960.1	958.8
37.5°	4694.3	2899.1	917.2	936.1	980.2	1013.0	1053.4	980.2	951.2	910.9	908.3
40°	4799.0	2670.8	860.4	905.8	924.7	972.7	909.6	914.6	907.1	876.8	873.0
42.5°	4937.8	2476.5	828.9	895.7	893.2	905.8	836.4	856.6	868.0	845.3	841.5
45°	5071.5	2307.4	812.5	857.9	870.5	797.3	783.4	802.4	820.0	811.2	807.4
47.5°	5169.9	2161.1	803.6	806.1	841.5	760.7	738.0	746.9	768.3	772.1	770.8
50°	5200.2	2036.2	793.5	763.3	755.7	724.1	706.5	704.0	729.2	746.9	749.4
52.5°	5142.2	1925.2	767.0	725.4	688.8	693.9	687.6	674.9	700.2	724.1	726.7
55°	5056.4	1862.1	725.4	688.8	645.9	666.1	668.6	657.3	673.7	690.1	690.1
57.5°	5062.7	1898.7	685.0	654.8	608.1	634.6	648.5	643.4	643.4	656.0	657.3
60°	5104.3	1951.7	658.5	611.9	570.2	598.0	629.5	624.5	613.1	629.5	629.5
62.5°	4984.5	1881.0	640.9	570.2	529.9	562.7	600.5	598.0	585.4	611.9	614.4
65°	4631.3	1691.8	620.7	518.5	489.5	527.3	560.1	569.0	557.6	592.9	599.2
67.5°	3881.9	1423.1	581.6	469.3	449.1	484.4	516.0	528.6	519.8	561.4	566.4
70°	2894.1	1151.8	519.8	415.1	399.9	431.5	460.5	465.5	466.8	516.0	521.0
72.5°	1845.7	895.7	437.8	354.5	343.1	367.1	388.6	408.8	417.6	464.3	463.0
75°	1029.4	666.1	352.0	300.3	280.1	299.0	324.2	348.2	373.4	441.6	449.1
77.5°	592.9	468.0	278.8	241.0	217.0	237.2	258.6	292.7	368.4	427.7	420.1
80°	334.3	304.0	210.7	176.6	161.5	176.6	193.0	257.4	290.2	315.4	319.2
82.5°	156.4	170.3	143.8	108.5	108.5	118.6	133.7	199.3	219.5	179.1	156.4
85°	56.8	77.0	70.6	55.5	49.2	47.9	83.3	113.5	70.6	63.1	54.2
87.5°	15.1	21.4	20.2	13.9	7.6	6.3	0.0	0.0	0.0	0.0	0.0
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)