

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: P638389

Luminaire Tested: GWS-SA4E-760-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30895.9 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

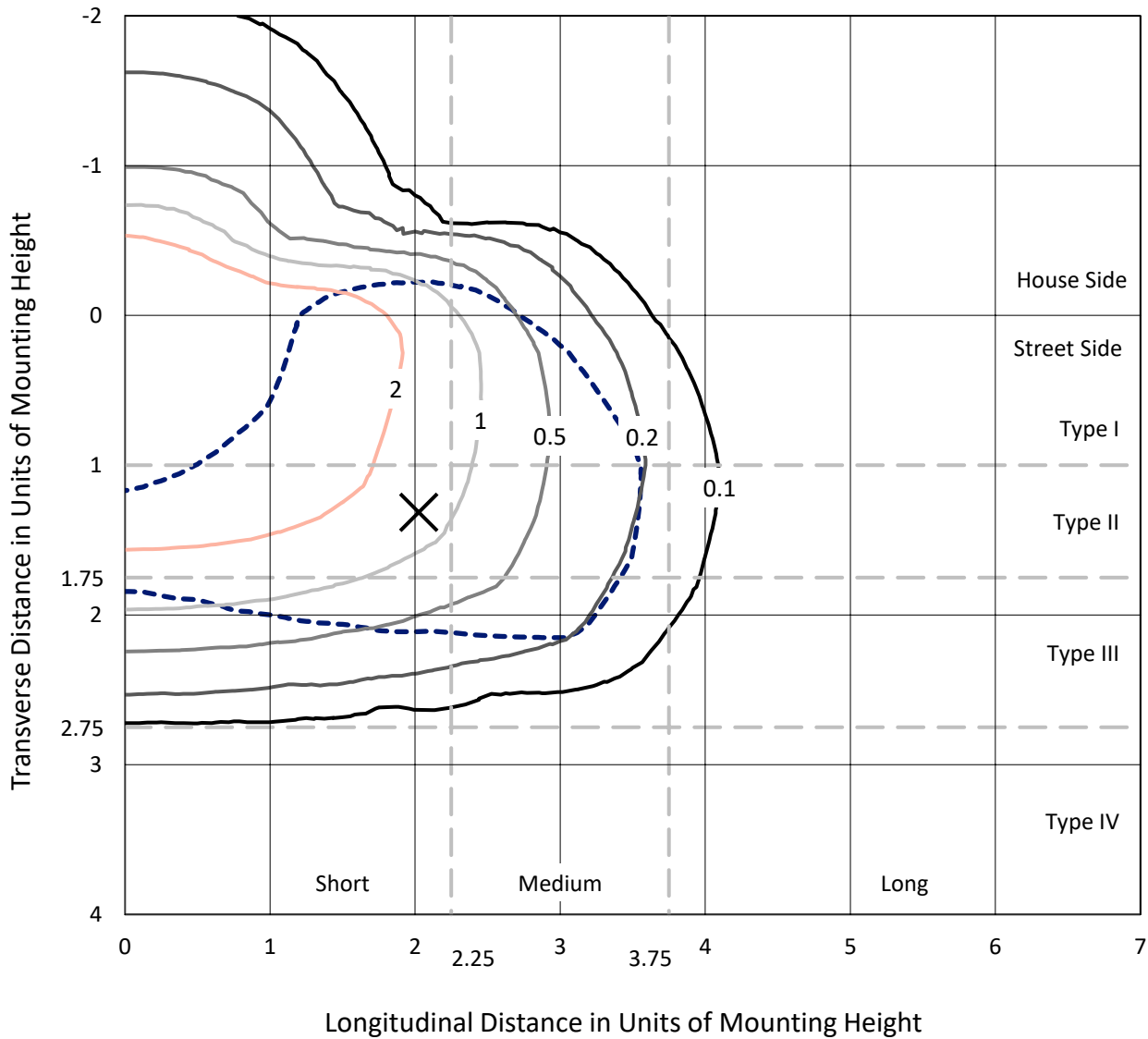
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

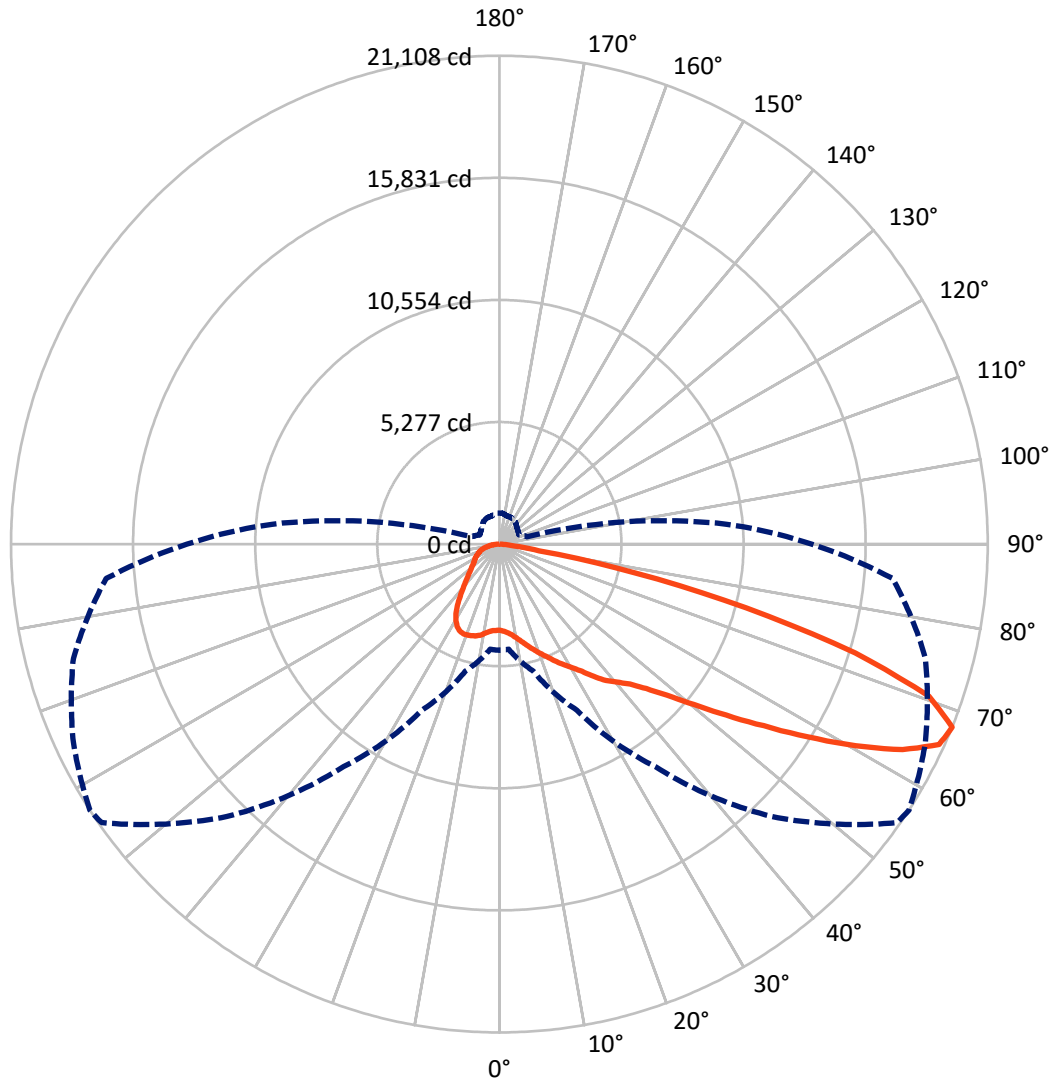
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6792.8	0.0	6792.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	24103.1	0.0	24103.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	30895.9	0.0	30895.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.2	1.2
10°-20°	1222.3	4.0
20°-30°	2179.1	7.1
30°-40°	3168.2	10.3
40°-50°	4585.4	14.8
50°-60°	7176.0	23.2
60°-70°	8371.3	27.1
70°-80°	3494.5	11.3
80°-90°	329.8	1.1
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°	30895.9	100.0
0°-180°	30895.9	100.0

Coefficient of Utilization



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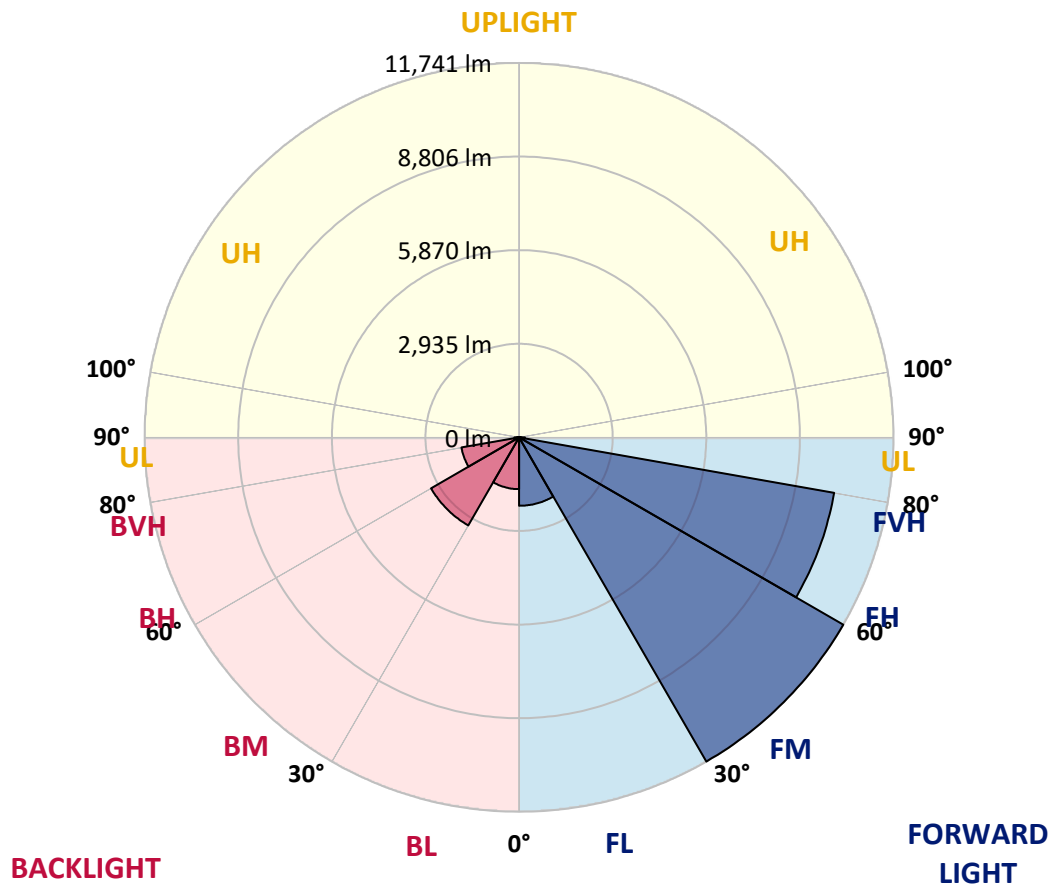
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2146.0	6.9			
FM (30°-60°)	11740.9	38.0			
FH (60°-80°)	10032.4	32.5			G4/12000
FVH (80°-90°)	183.7	0.6			G2/225
BL (0°-30°)	1624.6	5.3	B3/2500		
BM (30°-60°)	3188.7	10.3	B3/5000		
BH (60°-80°)	1833.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	146.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7
2.5°	3775.9	3771.4	3769.2	3782.5	3778.1	3775.9	3775.9	3773.7	3769.2	3751.5	3727.2
5°	3879.9	3871.0	3862.2	3873.2	3864.4	3855.5	3853.3	3848.9	3833.4	3806.9	3769.2
7.5°	3988.3	3979.5	3981.7	3988.3	3981.7	3977.3	3970.6	3966.2	3941.9	3899.8	3848.9
10°	4141.1	4141.1	4145.5	4152.1	4154.3	4147.7	4134.4	4127.8	4099.0	4045.9	3975.1
12.5°	4362.4	4358.0	4358.0	4353.5	4360.2	4353.5	4340.3	4329.2	4293.8	4225.2	4123.4
15°	4654.5	4636.8	4621.3	4592.6	4583.7	4559.4	4563.8	4557.2	4524.0	4431.0	4302.6
17.5°	4966.6	4964.4	4940.1	4882.5	4825.0	4785.1	4794.0	4791.8	4774.1	4647.9	4484.1
20°	5241.1	5252.1	5230.0	5185.7	5108.3	5033.0	5028.6	5039.7	5017.5	4891.4	4663.4
22.5°	5548.7	5539.9	5517.7	5460.2	5402.6	5323.0	5296.4	5287.5	5278.7	5134.8	4847.1
25°	5840.9	5867.4	5838.6	5785.5	5697.0	5610.7	5588.5	5597.4	5573.1	5382.7	5044.1
27.5°	6210.5	6221.5	6203.8	6130.8	6055.5	5933.8	5891.8	5891.8	5882.9	5615.1	5199.0
30°	6604.4	6635.4	6604.4	6544.7	6467.2	6292.4	6201.6	6192.8	6166.2	5854.1	5380.5
32.5°	7000.6	7022.8	7000.6	6943.1	6854.5	6701.8	6571.2	6551.3	6515.9	6115.3	5566.4
35°	7352.5	7372.5	7368.0	7381.3	7308.3	7115.7	7036.0	7027.2	6934.2	6456.2	5818.7
37.5°	7737.6	7762.0	7728.8	7755.4	7726.6	7545.1	7520.7	7476.5	7343.7	6777.1	6084.3
40°	8175.9	8198.0	8144.9	8156.0	8122.8	8020.9	7897.0	7837.2	7640.3	7124.6	6502.6
42.5°	8645.1	8696.0	8720.3	8700.4	8623.0	8565.4	8348.5	8273.3	8109.5	7750.9	7191.0
45°	9324.6	9399.8	9435.2	9384.3	9351.1	9269.2	9003.6	8912.9	8826.6	8634.0	8151.5
47.5°	10057.2	10125.8	10238.7	10260.8	10287.3	10225.4	9851.3	9762.8	9778.3	9756.2	9333.4
50°	10641.5	10699.0	10953.5	11225.8	11451.5	11469.2	10991.2	10896.0	10980.1	11050.9	10756.6
52.5°	11066.4	11117.3	11453.8	12015.9	12527.2	12905.7	12390.0	12281.5	12350.1	12509.5	12374.5
55°	11411.7	11482.5	11834.4	12697.6	13731.2	14328.8	13999.0	13861.8	13833.0	14030.0	14107.5
57.5°	11593.2	11615.3	12108.9	13231.0	14614.3	15725.4	15869.3	15714.3	15439.9	15548.3	15951.1
60°	11179.3	11216.9	11892.0	13368.2	15311.5	17110.9	17832.4	17704.1	17119.8	17179.5	17624.4
62.5°	10035.0	10088.2	10900.4	12715.3	15369.1	18036.1	19645.1	19563.2	18779.7	18456.6	18589.4
65°	8049.7	8067.4	8908.5	11099.6	14224.8	18151.2	20908.9	20889.0	19939.5	19182.5	18613.7
67.5°	4590.4	4559.4	5683.7	7916.9	11739.3	16655.0	20990.8	21108.1	20315.7	19063.0	17064.4
70°	1989.7	1994.2	2512.1	3906.4	7598.2	13461.2	19496.8	19698.2	19226.8	17073.3	13576.3
72.5°	920.7	934.0	1157.5	1690.9	3244.7	8350.7	15898.0	16079.5	15674.5	13664.8	9877.9
75°	650.7	661.8	772.4	969.4	1491.8	3253.5	10634.8	11015.5	11212.5	10221.0	6509.3
77.5°	493.6	509.1	564.4	672.8	920.7	1153.1	5088.3	5995.8	7142.3	6358.8	3353.1
80°	314.3	314.3	374.0	449.3	562.2	599.8	1469.6	1741.9	3494.8	2620.5	1316.9
82.5°	212.5	219.1	254.5	285.5	323.1	340.8	630.8	672.8	1009.3	892.0	542.3
85°	112.9	117.3	132.8	130.6	154.9	135.0	265.6	263.4	369.6	405.0	205.8
87.5°	0.0	0.0	2.2	2.2	4.4	6.6	28.8	31.0	77.5	123.9	68.6
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°	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7
2.5°	3740.5	3713.9	3727.2	3722.7	3736.0	3736.0	3711.7	3705.0	3707.3	3680.7	3671.8
5°	3773.7	3742.7	3749.3	3740.5	3753.7	3764.8	3753.7	3753.7	3767.0	3747.1	3736.0
7.5°	3848.9	3813.5	3813.5	3802.4	3817.9	3826.8	3817.9	3831.2	3855.5	3835.6	3824.6
10°	3968.4	3926.4	3928.6	3915.3	3921.9	3917.5	3882.1	3871.0	3877.7	3860.0	3851.1
12.5°	4123.4	4065.8	4065.8	4039.2	4023.8	3977.3	3904.2	3877.7	3882.1	3866.6	3860.0
15°	4271.6	4218.5	4207.5	4154.3	4083.5	3997.2	3930.8	3913.1	3917.5	3902.0	3891.0
17.5°	4446.5	4377.9	4338.0	4240.7	4110.1	4021.5	3955.1	3913.1	3877.7	3842.3	3833.4
20°	4608.1	4521.7	4448.7	4298.2	4138.8	4017.1	3893.2	3789.1	3702.8	3656.3	3645.3
22.5°	4774.1	4663.4	4535.0	4338.0	4136.6	3937.4	3709.5	3552.3	3424.0	3355.3	3368.6
25°	4931.2	4791.8	4616.9	4375.7	4065.8	3760.4	3450.5	3215.9	3069.8	3016.7	3001.2
27.5°	5061.8	4889.1	4692.2	4358.0	3919.7	3505.8	3096.4	2835.2	2693.6	2633.8	2618.3
30°	5207.9	5013.1	4800.6	4276.1	3689.5	3149.5	2695.8	2483.3	2381.5	2323.9	2326.2
32.5°	5376.1	5172.4	4953.3	4118.9	3395.2	2764.4	2366.0	2219.9	2138.0	2080.5	2071.6
35°	5601.8	5400.4	5055.1	3882.1	3021.1	2410.3	2140.2	2020.7	1918.9	1843.7	1828.2
37.5°	5880.7	5743.5	5066.2	3565.6	2620.5	2166.8	1978.7	1850.3	1726.4	1626.8	1615.7
40°	6358.8	6201.6	4975.5	3169.4	2279.7	2009.7	1843.7	1695.4	1551.5	1440.8	1425.4
42.5°	7040.5	6717.3	4780.7	2722.3	2022.9	1885.7	1715.3	1527.2	1381.1	1303.6	1292.6
45°	7908.1	7292.8	4488.5	2301.8	1832.6	1764.0	1580.3	1383.3	1305.8	1250.5	1239.4
47.5°	8970.4	7963.4	4152.1	1974.3	1684.3	1653.3	1443.1	1334.6	1266.0	1219.5	1208.5
50°	10240.9	8817.7	3875.5	1717.5	1551.5	1525.0	1398.8	1305.8	1250.5	1212.9	1204.0
52.5°	11690.6	9767.2	3740.5	1533.8	1436.4	1409.9	1383.3	1299.2	1252.7	1223.9	1212.9
55°	13195.6	10767.6	3614.3	1392.2	1339.0	1354.5	1385.5	1321.3	1285.9	1248.3	1237.2
57.5°	14649.7	11706.1	3304.4	1281.5	1268.2	1328.0	1396.6	1343.5	1301.4	1263.8	1250.5
60°	15652.4	12219.5	2779.9	1193.0	1215.1	1294.8	1367.8	1310.3	1257.1	1241.7	1235.0
62.5°	15922.4	12157.6	2158.0	1102.2	1150.9	1221.7	1292.6	1254.9	1199.6	1223.9	1226.2
65°	15291.6	11493.6	1620.1	1013.7	1066.8	1126.6	1215.1	1199.6	1179.7	1246.1	1248.3
67.5°	13505.5	9862.4	1235.0	936.2	980.5	1053.5	1190.7	1254.9	1259.4	1343.5	1334.6
70°	10218.7	7368.0	967.2	863.2	914.1	1053.5	1268.2	1297.0	1243.9	1321.3	1303.6
72.5°	7064.8	4862.6	823.3	799.0	832.2	1004.8	1266.0	1266.0	1208.5	1208.5	1175.3
75°	4388.9	2859.6	717.1	717.1	717.1	878.7	1230.6	1166.4	1064.6	1018.1	991.6
77.5°	2166.8	1389.9	602.0	624.1	599.8	734.8	1004.8	953.9	892.0	843.3	825.6
80°	925.2	695.0	486.9	511.3	482.5	553.3	796.8	785.7	726.0	661.8	641.9
82.5°	425.0	358.6	389.5	400.6	351.9	416.1	582.1	582.1	548.9	460.4	427.2
85°	181.5	190.3	270.0	270.0	221.3	234.6	312.1	296.6	265.6	216.9	199.2
87.5°	62.0	93.0	137.2	119.5	46.5	19.9	11.1	4.4	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)