

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: P638334

Luminaire Tested: GWS-SA4E-750-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638334
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-750-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31325.2 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

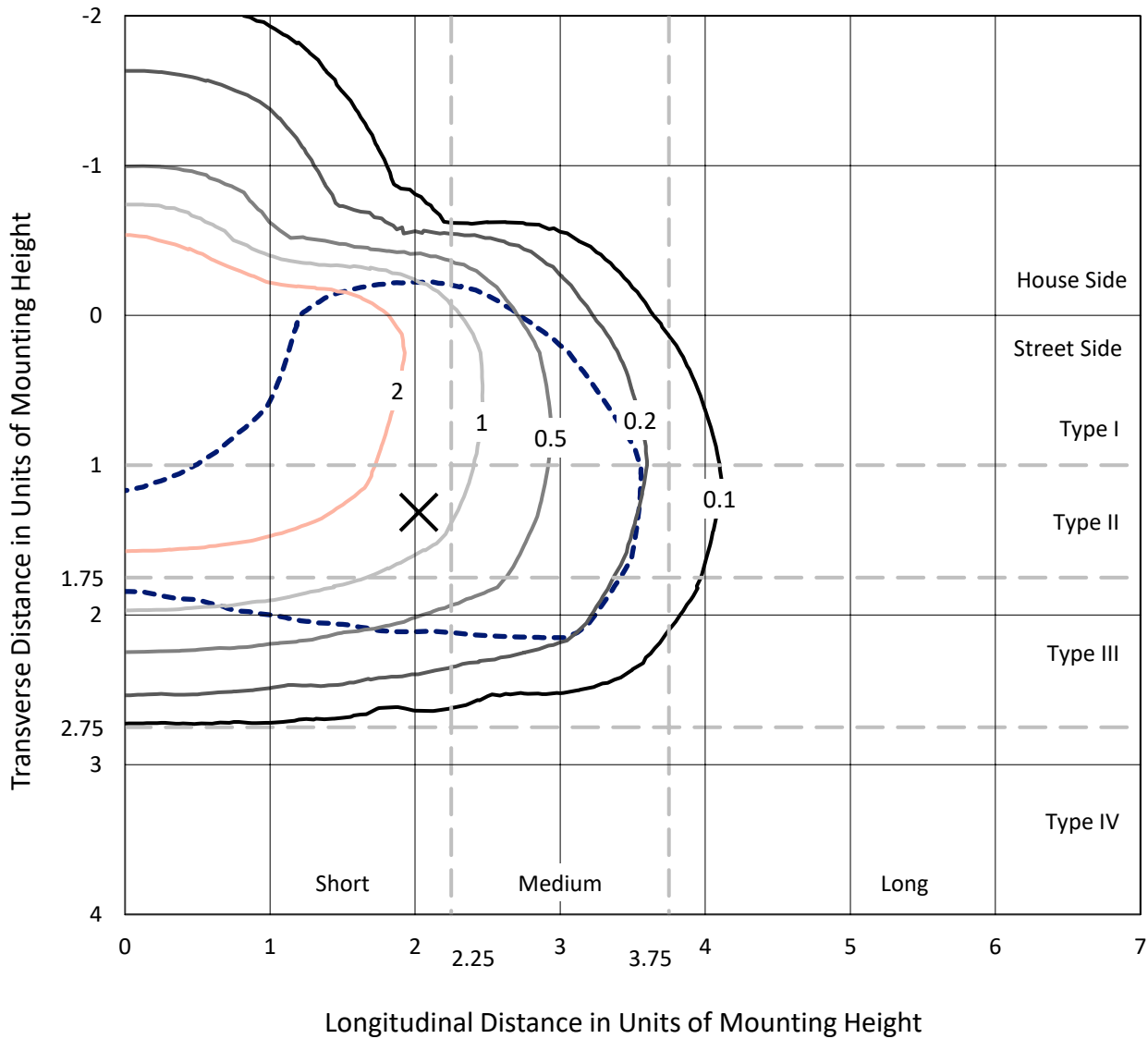
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

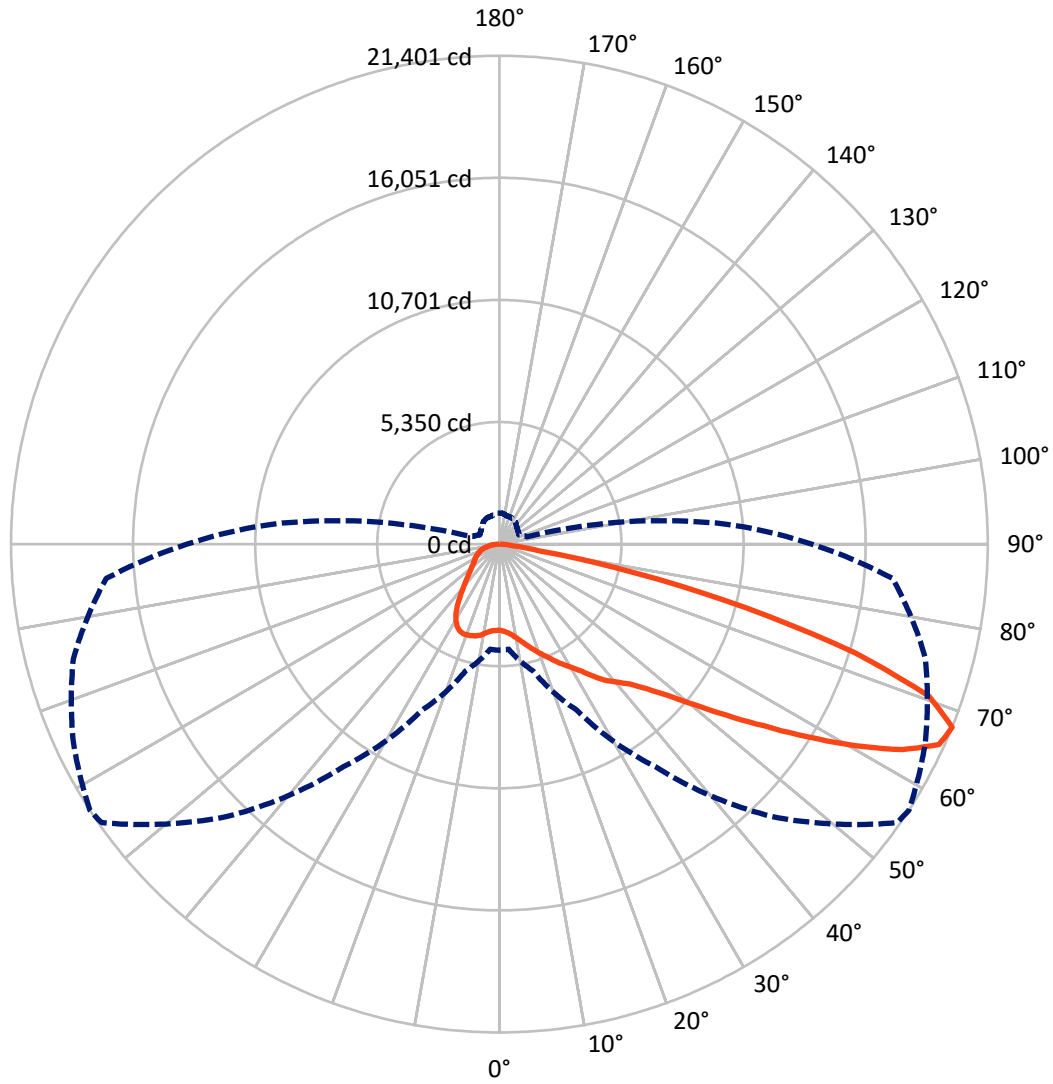
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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	6887.2	0.0	6887.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	24438.0	0.0	24438.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	31325.2	0.0	31325.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.3	1.2
10°-20°	1239.3	4.0
20°-30°	2209.4	7.1
30°-40°	3212.2	10.3
40°-50°	4649.2	14.8
50°-60°	7275.7	23.2
60°-70°	8487.6	27.1
70°-80°	3543.1	11.3
80°-90°	334.4	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°	31325.2	100.0
0°-180°	31325.2	100.0

Coefficient of Utilization



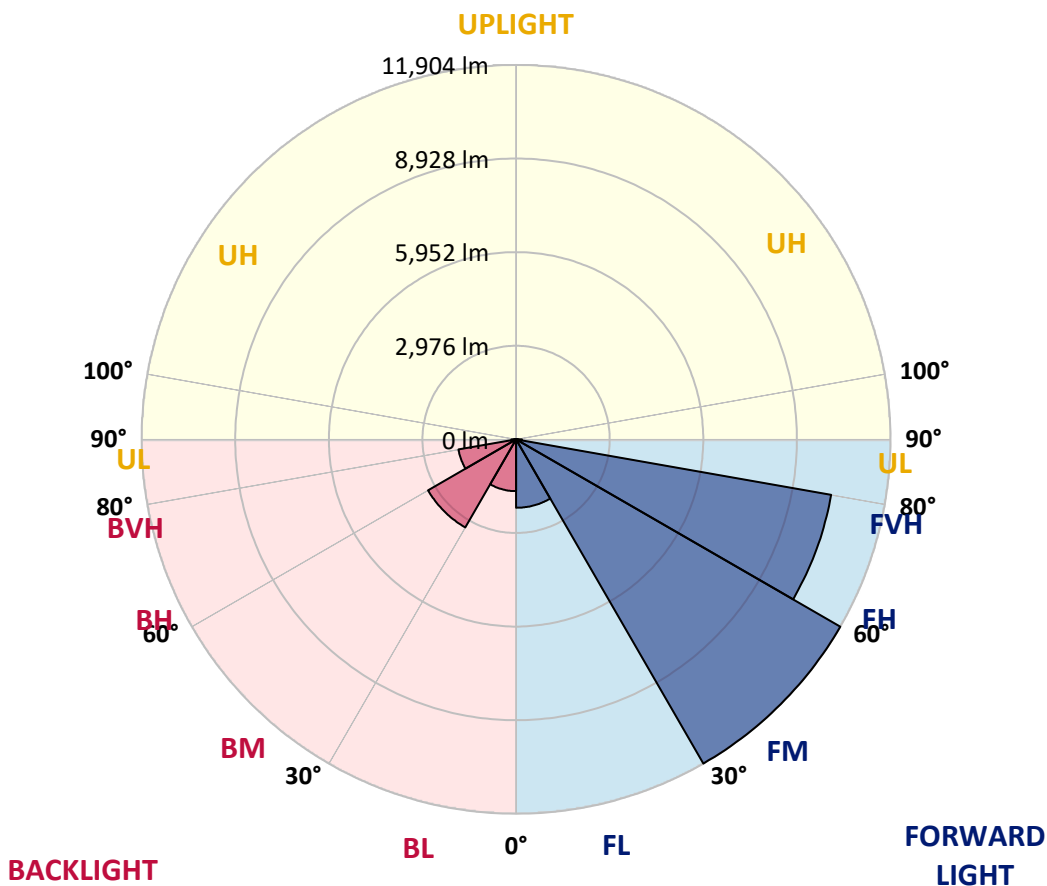
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.8	6.9			
FM (30°-60°)	11904.0	38.0			
FH (60°-80°)	10171.8	32.5			G4/12000
FVH (80°-90°)	186.3	0.6			G2/225
BL (0°-30°)	1647.2	5.3	B3/2500		
BM (30°-60°)	3233.1	10.3	B3/5000		
BH (60°-80°)	1858.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	148.1	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°	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5
2.5°	3828.3	3823.8	3821.6	3835.1	3830.6	3828.3	3828.3	3826.1	3821.6	3803.6	3779.0
5°	3933.8	3924.8	3915.8	3927.1	3918.1	3909.1	3906.9	3902.4	3886.7	3859.7	3821.6
7.5°	4043.8	4034.8	4037.0	4043.8	4037.0	4032.5	4025.8	4021.3	3996.6	3954.0	3902.4
10°	4198.6	4198.6	4203.1	4209.8	4212.1	4205.3	4191.9	4185.1	4156.0	4102.1	4030.3
12.5°	4423.0	4418.5	4418.5	4414.0	4420.8	4414.0	4400.6	4389.3	4353.4	4283.9	4180.6
15°	4719.2	4701.3	4685.6	4656.4	4647.4	4622.7	4627.2	4620.5	4586.8	4492.6	4362.4
17.5°	5035.6	5033.4	5008.7	4950.3	4892.0	4851.6	4860.6	4858.3	4840.4	4712.5	4546.4
20°	5313.9	5325.1	5302.7	5257.8	5179.2	5102.9	5098.5	5109.7	5087.2	4959.3	4728.2
22.5°	5625.8	5616.8	5594.4	5536.0	5477.7	5396.9	5370.0	5361.0	5352.0	5206.2	4914.4
25°	5922.0	5948.9	5919.8	5865.9	5776.2	5688.6	5666.2	5675.2	5650.5	5457.5	5114.2
27.5°	6296.8	6308.0	6290.0	6216.0	6139.7	6016.3	5973.6	5973.6	5964.7	5693.1	5271.2
30°	6696.2	6727.6	6696.2	6635.6	6557.1	6379.8	6287.8	6278.8	6251.9	5935.5	5455.3
32.5°	7097.9	7120.3	7097.9	7039.5	6949.8	6794.9	6662.6	6642.4	6606.5	6200.3	5643.8
35°	7454.7	7474.9	7470.4	7483.9	7409.8	7214.6	7133.8	7124.8	7030.6	6545.9	5899.6
37.5°	7845.2	7869.8	7836.2	7863.1	7833.9	7649.9	7625.2	7580.4	7445.7	6871.2	6168.9
40°	8289.5	8311.9	8258.1	8269.3	8235.6	8132.4	8006.7	7946.1	7746.4	7223.6	6593.0
42.5°	8765.2	8816.8	8841.5	8821.3	8742.8	8684.4	8464.5	8388.2	8222.2	7858.6	7290.9
45°	9454.1	9530.4	9566.3	9514.7	9481.1	9398.0	9128.7	9036.7	8949.2	8754.0	8264.8
47.5°	10196.9	10266.5	10380.9	10403.4	10430.3	10367.5	9988.2	9898.5	9914.2	9891.7	9463.1
50°	10789.3	10847.7	11105.7	11381.8	11610.7	11628.6	11143.9	11047.4	11132.7	11204.5	10906.0
52.5°	11220.2	11271.8	11612.9	12182.9	12701.3	13085.0	12562.1	12452.2	12521.7	12683.3	12546.4
55°	11570.3	11642.1	11998.9	12874.1	13922.0	14527.9	14193.5	14054.4	14025.2	14225.0	14303.5
57.5°	11754.3	11776.7	12277.1	13414.9	14817.4	15943.9	16089.8	15932.7	15654.4	15764.4	16172.8
60°	11334.6	11372.8	12057.2	13554.0	15524.3	17348.7	18080.2	17950.1	17357.6	17418.2	17869.3
62.5°	10174.5	10228.3	11051.9	12892.0	15582.6	18286.7	19918.1	19835.1	19040.7	18713.0	18847.7
65°	8161.6	8179.5	9032.3	11253.9	14422.4	18403.4	21199.4	21179.2	20216.5	19449.1	18872.4
67.5°	4654.1	4622.7	5762.7	8026.9	11902.4	16886.4	21282.5	21401.4	20598.0	19327.9	17301.5
70°	2017.4	2021.9	2547.0	3960.7	7703.8	13648.2	19767.7	19971.9	19494.0	17310.5	13764.9
72.5°	933.5	947.0	1173.6	1714.4	3289.8	8466.8	16118.9	16302.9	15892.3	13854.7	10015.1
75°	659.7	671.0	783.2	982.9	1512.5	3298.7	10782.6	11168.6	11368.3	10363.0	6599.7
77.5°	500.4	516.1	572.2	682.2	933.5	1169.1	5159.0	6079.1	7241.5	6447.1	3399.7
80°	318.7	318.7	379.2	455.5	570.0	608.1	1490.0	1766.1	3543.3	2656.9	1335.2
82.5°	215.4	222.2	258.1	289.5	327.6	345.6	639.6	682.2	1023.3	904.3	549.8
85°	114.4	118.9	134.6	132.4	157.1	136.9	269.3	267.0	374.8	410.7	208.7
87.5°	0.0	0.0	2.2	2.2	4.5	6.7	29.2	31.4	78.5	125.7	69.6
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°	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5	3774.5
2.5°	3792.4	3765.5	3779.0	3774.5	3787.9	3787.9	3763.3	3756.5	3758.8	3731.8	3722.9
5°	3826.1	3794.7	3801.4	3792.4	3805.9	3817.1	3805.9	3805.9	3819.4	3799.2	3787.9
7.5°	3902.4	3866.5	3866.5	3855.3	3871.0	3879.9	3871.0	3884.4	3909.1	3888.9	3877.7
10°	4023.6	3980.9	3983.2	3969.7	3976.4	3971.9	3936.0	3924.8	3931.6	3913.6	3904.6
12.5°	4180.6	4122.3	4122.3	4095.4	4079.7	4032.5	3958.5	3931.6	3936.0	3920.3	3913.6
15°	4331.0	4277.1	4265.9	4212.1	4140.3	4052.7	3985.4	3967.5	3971.9	3956.2	3945.0
17.5°	4508.3	4438.7	4398.3	4299.6	4167.2	4077.4	4010.1	3967.5	3931.6	3895.7	3886.7
20°	4672.1	4584.6	4510.5	4357.9	4196.4	4072.9	3947.3	3841.8	3754.3	3707.2	3695.9
22.5°	4840.4	4728.2	4598.0	4398.3	4194.1	3992.1	3761.0	3601.7	3471.5	3402.0	3415.4
25°	4999.7	4858.3	4681.1	4436.5	4122.3	3812.6	3498.5	3260.6	3112.5	3058.6	3042.9
27.5°	5132.1	4957.1	4757.4	4418.5	3974.2	3554.6	3139.4	2874.6	2731.0	2670.4	2654.7
30°	5280.2	5082.7	4867.3	4335.5	3740.8	3193.3	2733.2	2517.8	2414.6	2356.2	2358.5
32.5°	5450.8	5244.3	5022.2	4176.2	3442.4	2802.8	2398.9	2250.8	2167.7	2109.4	2100.4
35°	5679.7	5475.5	5125.4	3936.0	3063.1	2443.8	2170.0	2048.8	1945.6	1869.3	1853.6
37.5°	5962.4	5823.3	5136.6	3615.1	2656.9	2196.9	2006.2	1876.0	1750.4	1649.4	1638.1
40°	6447.1	6287.8	5044.6	3213.5	2311.4	2037.6	1869.3	1718.9	1573.1	1460.9	1445.2
42.5°	7138.3	6810.7	4847.1	2760.2	2051.1	1911.9	1739.1	1548.4	1400.3	1321.7	1310.5
45°	8018.0	7394.1	4550.9	2333.8	1858.1	1788.5	1602.2	1402.5	1324.0	1267.9	1256.7
47.5°	9095.1	8074.1	4209.8	2001.7	1707.7	1676.3	1463.1	1353.2	1283.6	1236.5	1225.2
50°	10383.2	8940.3	3929.3	1741.4	1573.1	1546.1	1418.2	1324.0	1267.9	1229.7	1220.8
52.5°	11853.0	9902.9	3792.4	1555.1	1456.4	1429.5	1402.5	1317.3	1270.1	1241.0	1229.7
55°	13379.0	10917.2	3664.5	1411.5	1357.6	1373.4	1404.8	1339.7	1303.8	1265.6	1254.4
57.5°	14853.3	11868.7	3350.3	1299.3	1285.8	1346.4	1416.0	1362.1	1319.5	1281.3	1267.9
60°	15869.8	12389.3	2818.5	1209.5	1232.0	1312.8	1386.8	1328.5	1274.6	1258.9	1252.2
62.5°	16143.6	12326.5	2187.9	1117.5	1166.9	1238.7	1310.5	1272.4	1216.3	1241.0	1243.2
65°	15504.1	11653.3	1642.6	1027.8	1081.6	1142.2	1232.0	1216.3	1196.1	1263.4	1265.6
67.5°	13693.1	9999.4	1252.2	949.2	994.1	1068.2	1207.3	1272.4	1276.9	1362.1	1353.2
70°	10360.7	7470.4	980.6	875.2	926.8	1068.2	1285.8	1315.0	1261.1	1339.7	1321.7
72.5°	7163.0	4930.2	834.8	810.1	843.8	1018.8	1283.6	1283.6	1225.2	1225.2	1191.6
75°	4449.9	2899.3	727.1	727.1	727.1	890.9	1247.7	1182.6	1079.4	1032.3	1005.3
77.5°	2196.9	1409.3	610.4	632.8	608.1	745.0	1018.8	967.2	904.3	855.0	837.0
80°	938.0	704.6	493.7	518.4	489.2	561.0	807.9	796.6	736.0	671.0	650.8
82.5°	430.9	363.5	395.0	406.2	356.8	421.9	590.2	590.2	556.5	466.8	433.1
85°	184.0	193.0	273.8	273.8	224.4	237.9	316.4	300.7	269.3	219.9	202.0
87.5°	62.8	94.2	139.1	121.2	47.1	20.2	11.2	4.5	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)