

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: P638310

Luminaire Tested: GWS-SA4E-750-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25353.7 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

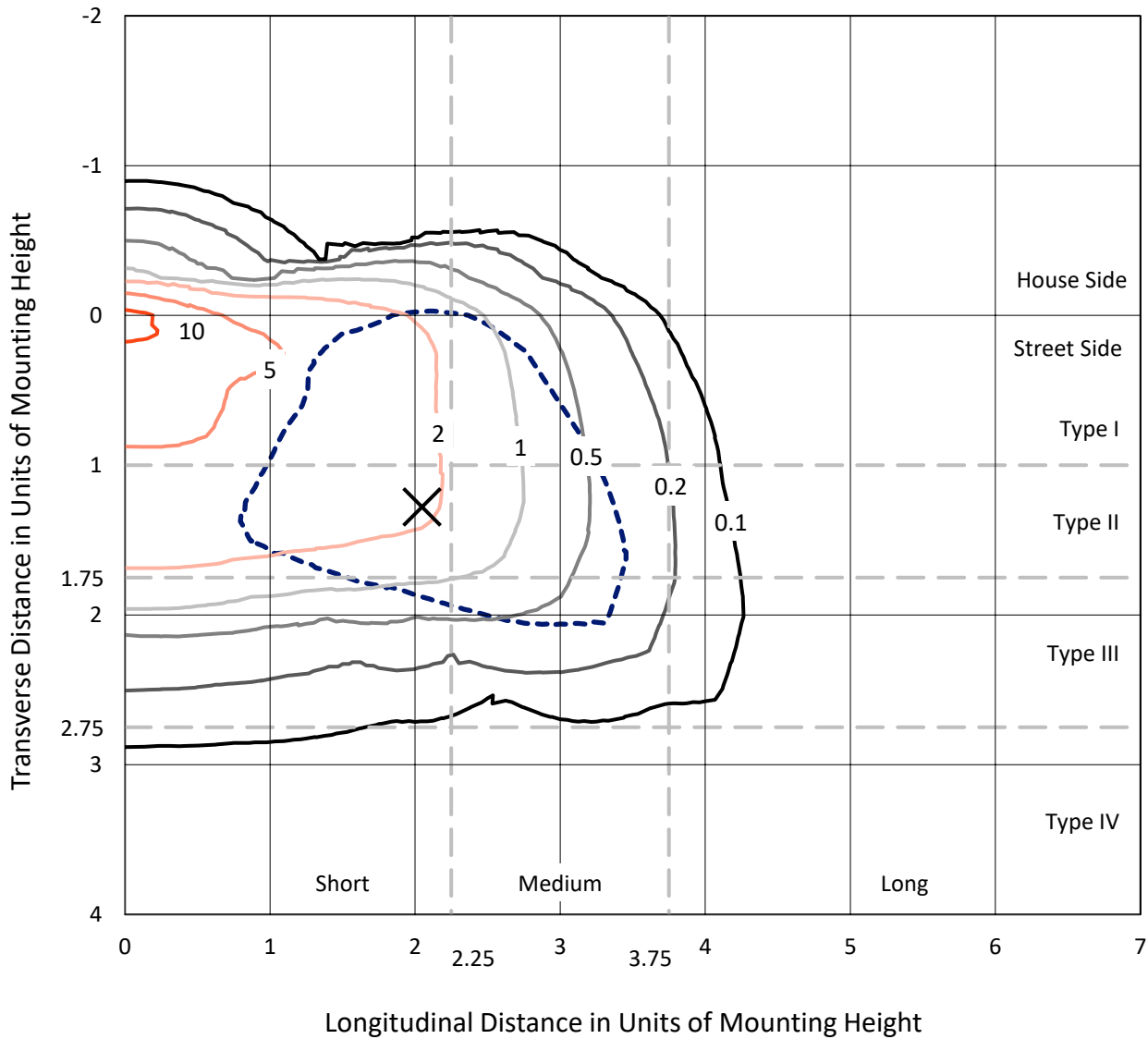
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

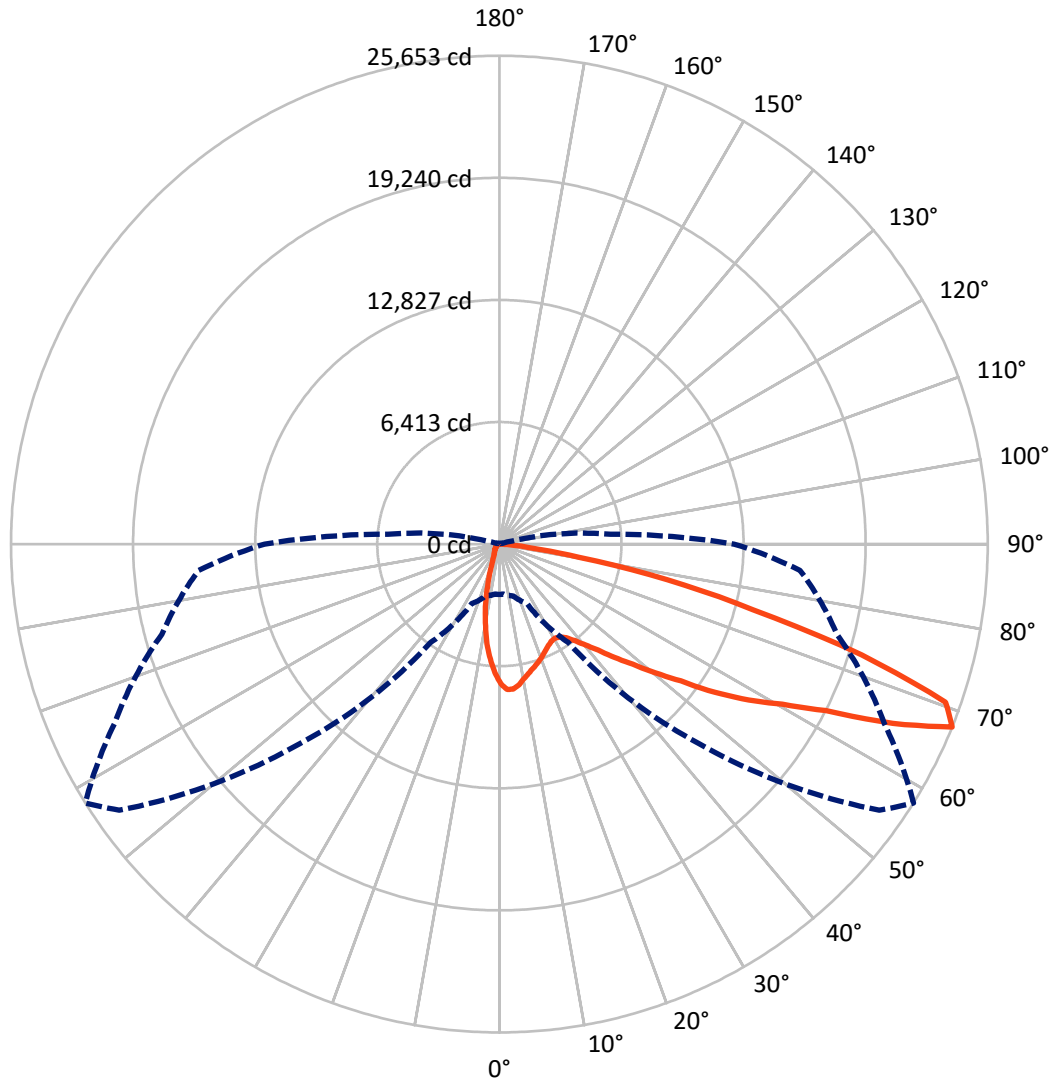
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2476.9	0.0	2476.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	22876.8	0.0	22876.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	25353.7	0.0	25353.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.3	2.3
10°-20°	1237.1	4.9
20°-30°	1668.2	6.6
30°-40°	2344.2	9.2
40°-50°	3620.4	14.3
50°-60°	5789.6	22.8
60°-70°	6855.3	27.0
70°-80°	3032.6	12.0
80°-90°	212.0	0.8
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°	25353.7	100.0
0°-180°	25353.7	100.0

Coefficient of Utilization



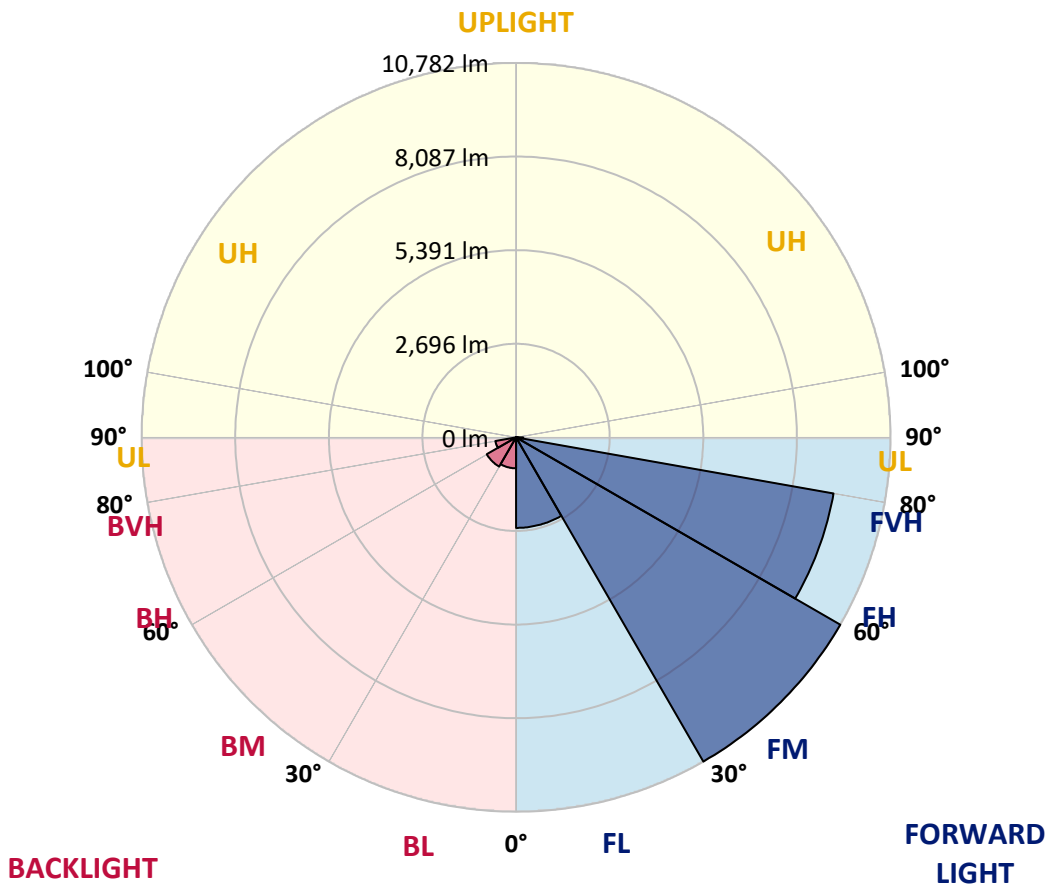
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2608.3	10.3			
FM (30°-60°)	10782.4	42.5			
FH (60°-80°)	9283.2	36.6			G4/12000
FVH (80°-90°)	203.0	0.8			G2/225
BL (0°-30°)	891.3	3.5	B2/1000		
BM (30°-60°)	971.9	3.8	B1/1000		
BH (60°-80°)	604.7	2.4	B2/1000		G2/1000
BVH (80°-90°)	9.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2
2.5°	7692.4	7705.9	7723.8	7746.3	7741.8	7721.6	7696.9	7640.8	7604.9	7492.7	7355.8
5°	7445.6	7443.3	7488.2	7530.9	7607.2	7647.6	7703.7	7652.0	7634.1	7499.4	7277.3
7.5°	6963.1	6987.8	7039.4	7106.7	7216.7	7335.6	7470.3	7454.6	7508.4	7418.7	7142.7
10°	6489.6	6476.2	6557.0	6657.9	6826.2	6978.8	7174.1	7171.8	7313.2	7304.2	6990.1
12.5°	6074.5	6072.3	6135.1	6249.5	6447.0	6660.2	6925.0	6931.7	7106.7	7178.6	6859.9
15°	5724.4	5728.9	5789.5	5908.5	6112.7	6373.0	6680.4	6736.5	6934.0	7079.8	6732.0
17.5°	5475.4	5477.6	5513.5	5616.7	5816.4	6094.7	6465.0	6541.3	6794.8	7005.8	6628.8
20°	5360.9	5351.9	5358.7	5410.3	5565.1	5818.7	6245.1	6343.8	6666.9	6954.2	6534.5
22.5°	5376.6	5363.2	5331.7	5325.0	5394.6	5587.6	6011.7	6132.9	6527.8	6922.7	6449.3
25°	5515.8	5486.6	5441.7	5374.4	5347.5	5443.9	5807.5	5933.1	6397.6	6925.0	6384.2
27.5°	5728.9	5697.5	5641.4	5551.7	5446.2	5405.8	5668.3	5787.3	6305.6	6976.6	6352.8
30°	6000.5	5975.8	5921.9	5814.2	5672.8	5506.8	5639.2	5737.9	6260.8	7082.1	6366.2
32.5°	6321.3	6303.4	6258.5	6159.8	5998.2	5744.6	5737.9	5814.2	6296.7	7234.7	6417.8
35°	6631.0	6637.8	6640.0	6586.1	6413.4	6105.9	6009.4	6036.4	6444.8	7463.5	6534.5
37.5°	6965.4	6949.7	7030.5	7068.6	6902.5	6574.9	6429.1	6431.3	6727.5	7802.4	6754.4
40°	7218.9	7223.4	7398.5	7555.5	7486.0	7169.6	6960.9	6958.6	7162.8	8266.9	7109.0
42.5°	7456.8	7486.0	7744.0	8013.3	8109.8	7829.3	7679.0	7622.9	7773.2	8895.2	7640.8
45°	7710.4	7753.0	8114.3	8498.0	8751.6	8585.5	8466.6	8489.1	8507.0	9626.8	8356.7
47.5°	8006.6	8033.5	8480.1	9020.9	9494.4	9451.7	9458.5	9431.5	9422.6	10549.0	9303.6
50°	8365.6	8428.5	8942.3	9588.6	10234.9	10517.6	10611.9	10623.1	10477.2	11554.4	10284.3
52.5°	9128.6	9204.9	9644.7	10210.2	11042.7	11637.4	12021.1	11944.8	11720.4	12528.3	11359.1
55°	10028.4	10086.8	10510.9	11096.6	12030.1	12864.9	13775.9	13744.5	13194.7	13553.8	12243.3
57.5°	10113.7	10178.8	10836.3	11733.9	13297.9	14381.8	15340.0	15441.0	14635.4	14280.8	13033.2
60°	9155.5	9287.9	10185.5	11392.8	13782.6	16421.6	17054.4	17074.6	15692.3	15019.1	13998.1
62.5°	7337.9	7400.7	8305.0	9880.3	13035.4	17610.9	19673.2	19246.8	17049.9	16161.3	15526.2
65°	3846.2	4102.0	4889.7	6633.3	10571.5	17195.8	22823.7	22707.0	19491.4	17797.2	16715.6
67.5°	2638.9	2636.7	2823.0	3458.0	6303.4	14805.9	24369.8	25653.4	22314.3	18358.2	15853.9
70°	2008.4	2015.1	2181.2	2594.1	3265.0	9855.6	22673.4	24868.0	22839.4	16668.4	12822.2
72.5°	1332.9	1346.4	1622.4	2095.9	2607.5	4831.3	17619.9	19897.6	19217.6	13387.7	9025.4
75°	796.6	807.8	1005.3	1523.7	2318.1	2704.0	11195.3	13755.7	13228.4	9227.3	4838.1
77.5°	327.6	336.6	516.1	949.2	1696.5	2100.4	6191.2	9000.7	7923.6	3668.9	1321.7
80°	136.9	141.4	249.1	664.2	1223.0	1317.2	2867.8	4229.9	3247.1	789.9	403.9
82.5°	49.4	51.6	92.0	365.8	760.7	991.8	1447.4	1671.8	915.6	258.1	217.7
85°	2.2	2.2	22.4	123.4	289.5	280.5	828.0	801.1	302.9	107.7	130.2
87.5°	0.0	0.0	2.2	2.2	4.5	11.2	78.5	139.1	65.1	26.9	56.1
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°	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2	7313.2
2.5°	7266.1	7147.1	7017.0	6895.8	6702.8	6588.4	6447.0	6384.2	6294.4	6272.0	6285.4
5°	7118.0	6913.8	6601.8	6319.1	5953.3	5659.4	5363.2	5237.5	5075.9	4968.2	4923.3
7.5°	6909.3	6642.2	6155.3	5641.4	5138.8	4602.4	4194.0	3924.8	3680.2	3545.5	3518.6
10°	6698.3	6350.5	5652.6	4916.6	4137.9	3496.2	2944.1	2535.7	2203.6	2053.3	1936.6
12.5°	6480.7	6047.6	5141.0	4180.6	3276.2	2401.1	1718.9	1321.7	1083.9	989.6	1005.3
15°	6281.0	5755.9	4633.9	3444.5	2306.8	1449.6	949.2	801.1	745.0	727.1	724.8
17.5°	6090.2	5479.8	4129.0	2728.7	1521.4	888.6	727.1	691.2	675.4	666.5	666.5
20°	5917.4	5215.1	3635.3	2055.5	982.9	704.6	657.5	639.5	626.1	619.3	619.3
22.5°	5755.9	4959.2	3152.8	1454.1	724.8	632.8	603.6	585.7	570.0	561.0	561.0
25°	5610.0	4728.1	2692.8	1000.8	623.8	579.0	547.5	527.3	500.4	484.7	484.7
27.5°	5504.5	4521.7	2250.7	729.3	563.2	520.6	484.7	457.8	428.6	410.7	406.2
30°	5441.7	4346.6	1804.2	599.1	507.1	464.5	424.1	390.5	356.8	338.8	336.6
32.5°	5405.8	4185.1	1395.8	522.9	460.0	410.7	365.8	329.9	296.2	276.0	273.8
35°	5419.3	4059.4	1045.7	471.2	415.1	363.5	314.2	278.3	249.1	231.1	226.6
37.5°	5535.9	4003.3	785.4	430.8	377.0	323.1	271.5	237.9	210.9	197.5	195.2
40°	5762.6	4014.5	617.1	399.4	345.6	282.7	233.4	202.0	181.8	170.5	168.3
42.5°	6114.9	4108.8	509.4	372.5	311.9	246.8	202.0	177.3	157.1	145.9	143.6
45°	6640.0	4304.0	444.3	341.1	276.0	213.2	175.0	152.6	134.6	121.2	118.9
47.5°	7400.7	4642.8	401.7	311.9	244.6	184.0	150.3	127.9	112.2	101.0	98.7
50°	8210.8	5049.0	365.8	282.7	217.7	159.3	127.9	105.5	92.0	80.8	78.5
52.5°	9074.7	5486.6	338.8	255.8	193.0	136.9	107.7	87.5	74.1	62.8	60.6
55°	9905.0	5926.4	307.4	237.9	163.8	116.7	89.8	71.8	58.3	49.4	49.4
57.5°	10712.9	6330.3	273.8	208.7	134.6	98.7	74.1	58.3	47.1	40.4	38.1
60°	11677.8	6889.1	235.6	177.3	112.2	83.0	60.6	47.1	38.1	31.4	31.4
62.5°	13111.7	7470.3	202.0	148.1	94.2	69.6	49.4	38.1	31.4	26.9	24.7
65°	13580.7	7156.1	170.5	121.2	76.3	56.1	40.4	33.7	26.9	24.7	22.4
67.5°	12328.5	5865.8	141.4	98.7	62.8	47.1	35.9	29.2	24.7	22.4	20.2
70°	9620.0	4162.6	110.0	74.1	51.6	38.1	31.4	26.9	22.4	20.2	20.2
72.5°	6543.5	2461.7	87.5	56.1	42.6	33.7	26.9	24.7	22.4	20.2	18.0
75°	3222.4	875.2	67.3	42.6	33.7	29.2	24.7	22.4	20.2	18.0	18.0
77.5°	868.4	242.4	51.6	33.7	26.9	22.4	22.4	22.4	20.2	15.7	15.7
80°	294.0	101.0	38.1	24.7	22.4	18.0	15.7	20.2	18.0	15.7	13.5
82.5°	161.6	49.4	26.9	20.2	15.7	13.5	13.5	13.5	13.5	11.2	11.2
85°	103.2	26.9	18.0	15.7	15.7	11.2	9.0	9.0	6.7	6.7	6.7
87.5°	47.1	15.7	15.7	13.5	13.5	11.2	6.7	4.5	2.2	2.2	2.2
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)