

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: P641225

Luminaire Tested: GWS-SA5F-740-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641225
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-SA5F-740-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33804.8 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

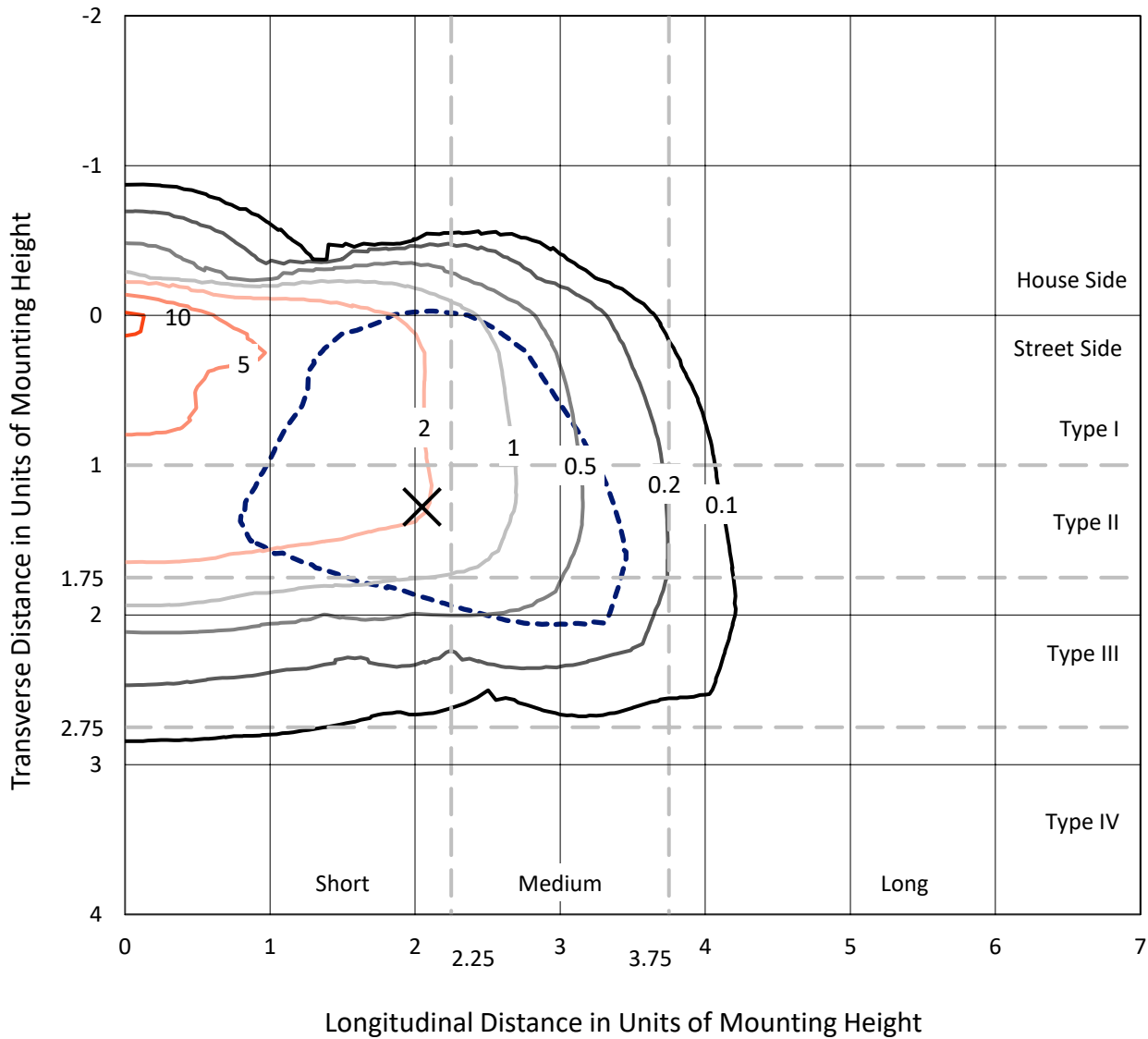
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

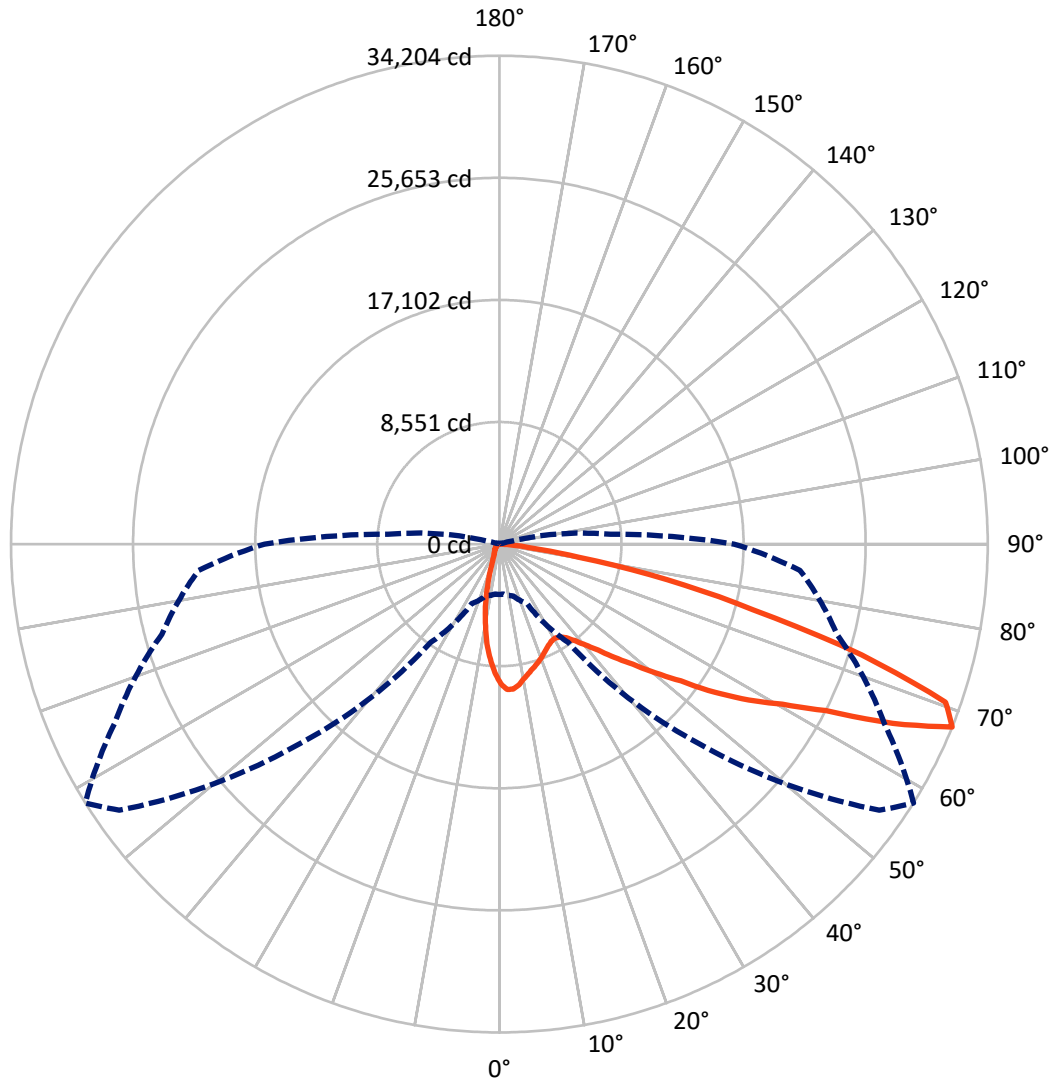
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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	3302.5	0.0	3302.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	30502.3	0.0	30502.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	33804.8	0.0	33804.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.4	2.3
10°-20°	1649.4	4.9
20°-30°	2224.3	6.6
30°-40°	3125.6	9.2
40°-50°	4827.2	14.3
50°-60°	7719.4	22.8
60°-70°	9140.3	27.0
70°-80°	4043.4	12.0
80°-90°	282.7	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°	33804.8	100.0
0°-180°	33804.8	100.0

Coefficient of Utilization



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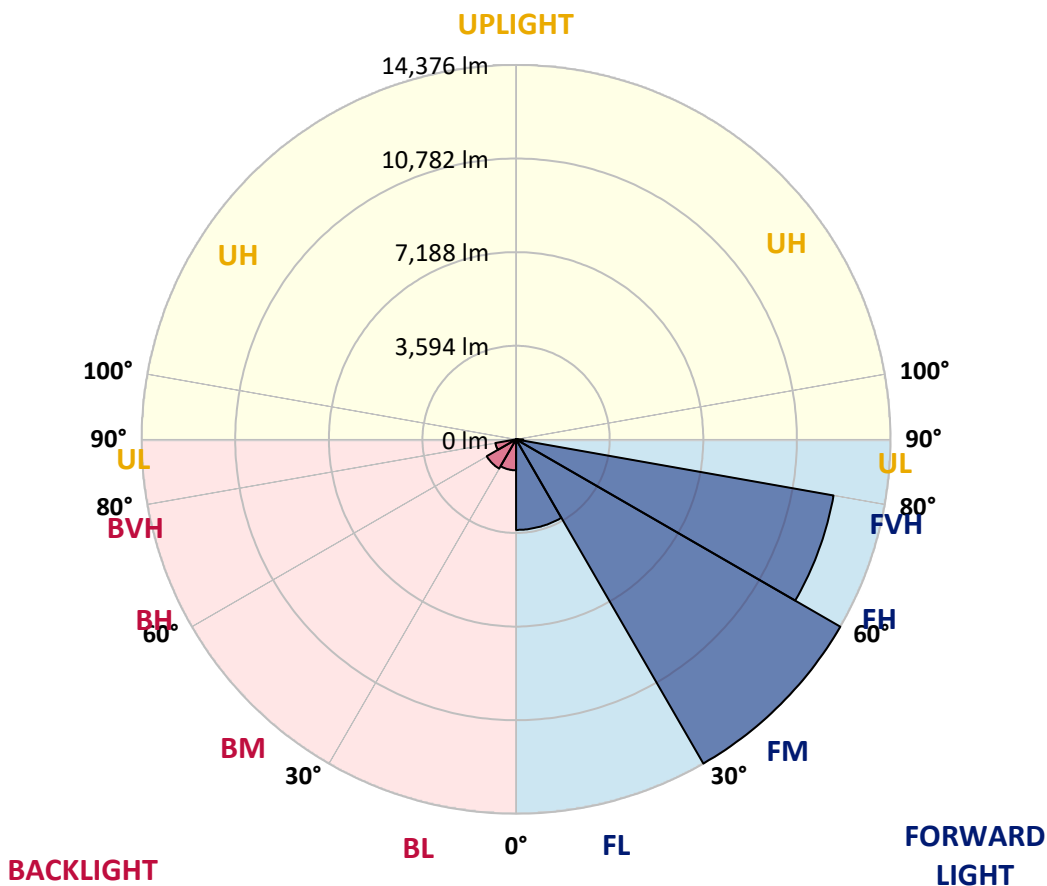
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3477.7	10.3			
FM (30°-60°)	14376.5	42.5			
FH (60°-80°)	12377.5	36.6			G5
FVH (80°-90°)	270.6	0.8			G3/500
BL (0°-30°)	1188.4	3.5	B3/2500		
BM (30°-60°)	1295.8	3.8	B2/2500		
BH (60°-80°)	806.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	12.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9
2.5°	10256.5	10274.5	10298.4	10328.3	10322.4	10295.4	10262.5	10187.7	10139.8	9990.2	9807.7
5°	9927.4	9924.4	9984.3	10041.1	10142.8	10196.7	10271.5	10202.7	10178.7	9999.2	9703.0
7.5°	9284.1	9317.1	9385.9	9475.6	9622.2	9780.8	9960.3	9939.4	10011.2	9891.5	9523.5
10°	8652.8	8634.9	8742.6	8877.2	9101.6	9305.1	9565.4	9562.4	9750.9	9738.9	9320.0
12.5°	8099.3	8096.3	8180.1	8332.7	8596.0	8880.2	9233.3	9242.3	9475.6	9571.4	9146.5
15°	7632.6	7638.5	7719.3	7877.9	8150.2	8497.2	8907.2	8981.9	9245.2	9439.7	8976.0
17.5°	7300.5	7303.4	7351.3	7488.9	7755.2	8126.2	8619.9	8721.6	9059.7	9341.0	8838.3
20°	7147.9	7135.9	7144.9	7213.7	7420.1	7758.2	8326.7	8458.4	8889.2	9272.2	8712.7
22.5°	7168.8	7150.9	7109.0	7100.0	7192.7	7450.1	8015.5	8177.1	8703.7	9230.3	8599.0
25°	7354.3	7315.4	7255.6	7165.8	7129.9	7258.6	7743.3	7910.8	8530.2	9233.3	8512.2
27.5°	7638.5	7596.7	7521.9	7402.2	7261.6	7207.7	7557.8	7716.3	8407.5	9302.1	8470.3
30°	8000.6	7967.7	7895.9	7752.2	7563.7	7342.3	7518.9	7650.5	8347.6	9442.7	8488.3
32.5°	8428.4	8404.5	8344.7	8213.0	7997.6	7659.5	7650.5	7752.2	8395.5	9646.2	8557.1
35°	8841.3	8850.3	8853.3	8781.5	8551.1	8141.2	8012.5	8048.4	8593.0	9951.4	8712.7
37.5°	9287.1	9266.2	9373.9	9424.8	9203.4	8766.5	8572.0	8575.0	8970.0	10403.1	9005.9
40°	9625.2	9631.2	9864.6	10074.0	9981.3	9559.4	9281.1	9278.2	9550.4	11022.5	9478.6
42.5°	9942.4	9981.3	10325.4	10684.4	10813.0	10439.0	10238.6	10163.8	10364.2	11860.2	10187.7
45°	10280.5	10337.3	10819.0	11330.7	11668.8	11447.3	11288.8	11318.7	11342.6	12835.6	11142.2
47.5°	10675.4	10711.3	11306.7	12027.8	12659.1	12602.3	12611.2	12575.3	12563.4	14065.3	12404.8
50°	11154.1	11237.9	11923.1	12784.8	13646.5	14023.5	14149.1	14164.1	13969.6	15405.7	13712.3
52.5°	12171.4	12273.1	12859.6	13613.5	14723.6	15516.5	16028.1	15926.4	15627.2	16704.3	15145.4
55°	13371.2	13449.0	14014.5	14795.4	16040.1	17153.1	18367.8	18325.9	17592.9	18071.6	16324.3
57.5°	13484.9	13571.7	14448.3	15645.1	17730.5	19175.7	20453.2	20587.9	19513.7	19041.0	17377.5
60°	12207.3	12383.8	13580.6	15190.3	18376.8	21895.4	22739.1	22766.0	20923.0	20025.4	18664.0
62.5°	9783.8	9867.6	11073.3	13173.7	17380.5	23481.1	26230.8	25662.3	22733.1	21548.3	20701.6
65°	5128.3	5469.4	6519.5	8844.3	14095.3	22927.6	30431.5	30275.9	25988.4	23729.5	22287.3
67.5°	3518.6	3515.6	3763.9	4610.7	8404.5	19741.1	32493.0	34204.4	29752.3	24477.5	21138.4
70°	2677.8	2686.8	2908.2	3458.7	4353.3	13140.8	30231.1	33157.2	30452.5	22224.5	17096.2
72.5°	1777.2	1795.2	2163.2	2794.5	3476.7	6441.8	23493.1	26530.0	25623.4	17850.2	12033.8
75°	1062.2	1077.1	1340.4	2031.6	3090.7	3605.3	14927.0	18340.9	17637.8	12303.1	6450.7
77.5°	436.8	448.8	688.2	1265.6	2261.9	2800.5	8254.9	12000.9	10564.7	4891.9	1762.3
80°	182.5	188.5	332.1	885.6	1630.6	1756.3	3823.8	5639.9	4329.4	1053.2	538.6
82.5°	65.8	68.8	122.7	487.7	1014.3	1322.5	1929.8	2229.0	1220.7	344.1	290.2
85°	3.0	3.0	29.9	164.6	386.0	374.0	1104.0	1068.1	403.9	143.6	173.5
87.5°	0.0	0.0	3.0	3.0	6.0	15.0	104.7	185.5	86.8	35.9	74.8
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°	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9	9750.9
2.5°	9688.1	9529.5	9355.9	9194.4	8937.1	8784.5	8596.0	8512.2	8392.5	8362.6	8380.6
5°	9490.6	9218.3	8802.4	8425.4	7937.7	7545.8	7150.9	6983.3	6767.9	6624.3	6564.4
7.5°	9212.3	8856.3	8207.0	7521.9	6851.7	6136.6	5592.0	5233.0	4906.9	4727.3	4691.4
10°	8931.1	8467.3	7536.8	6555.4	5517.2	4661.5	3925.5	3380.9	2938.1	2737.7	2582.1
12.5°	8640.9	8063.4	6854.6	5574.1	4368.3	3201.4	2291.9	1762.3	1445.1	1319.5	1340.4
15°	8374.6	7674.5	6178.5	4592.7	3075.8	1932.8	1265.6	1068.1	993.3	969.4	966.4
17.5°	8120.3	7306.4	5505.3	3638.3	2028.6	1184.8	969.4	921.5	900.6	888.6	888.6
20°	7889.9	6953.4	4847.0	2740.7	1310.5	939.5	876.7	852.7	834.8	825.8	825.8
22.5°	7674.5	6612.3	4203.7	1938.8	966.4	843.7	804.8	780.9	760.0	748.0	748.0
25°	7480.0	6304.1	3590.4	1334.4	831.8	771.9	730.0	703.1	667.2	646.3	646.3
27.5°	7339.3	6028.9	3001.0	972.4	751.0	694.1	646.3	610.4	571.5	547.5	541.5
30°	7255.6	5795.5	2405.6	798.9	676.2	619.3	565.5	520.6	475.7	451.8	448.8
32.5°	7207.7	5580.1	1861.0	697.1	613.4	547.5	487.7	439.8	394.9	368.0	365.0
35°	7225.7	5412.5	1394.3	628.3	553.5	484.7	418.9	371.0	332.1	308.2	302.2
37.5°	7381.2	5337.7	1047.2	574.5	502.7	430.8	362.0	317.2	281.2	263.3	260.3
40°	7683.4	5352.7	822.8	532.6	460.8	377.0	311.2	269.3	242.4	227.4	224.4
42.5°	8153.2	5478.3	679.2	496.7	415.9	329.1	269.3	236.4	209.4	194.5	191.5
45°	8853.3	5738.6	592.4	454.8	368.0	284.2	233.4	203.5	179.5	161.6	158.6
47.5°	9867.6	6190.4	535.6	415.9	326.1	245.3	200.5	170.5	149.6	134.6	131.6
50°	10947.7	6732.0	487.7	377.0	290.2	212.4	170.5	140.6	122.7	107.7	104.7
52.5°	12099.6	7315.4	451.8	341.1	257.3	182.5	143.6	116.7	98.7	83.8	80.8
55°	13206.6	7901.8	409.9	317.2	218.4	155.6	119.7	95.7	77.8	65.8	65.8
57.5°	14283.8	8440.4	365.0	278.3	179.5	131.6	98.7	77.8	62.8	53.9	50.9
60°	15570.3	9185.4	314.2	236.4	149.6	110.7	80.8	62.8	50.9	41.9	41.9
62.5°	17482.2	9960.3	269.3	197.5	125.7	92.8	65.8	50.9	41.9	35.9	32.9
65°	18107.5	9541.5	227.4	161.6	101.7	74.8	53.9	44.9	35.9	32.9	29.9
67.5°	16438.0	7821.1	188.5	131.6	83.8	62.8	47.9	38.9	32.9	29.9	26.9
70°	12826.7	5550.1	146.6	98.7	68.8	50.9	41.9	35.9	29.9	26.9	26.9
72.5°	8724.6	3282.2	116.7	74.8	56.8	44.9	35.9	32.9	29.9	26.9	23.9
75°	4296.5	1166.9	89.8	56.8	44.9	38.9	32.9	29.9	26.9	23.9	23.9
77.5°	1157.9	323.1	68.8	44.9	35.9	29.9	29.9	29.9	26.9	20.9	20.9
80°	392.0	134.6	50.9	32.9	29.9	23.9	20.9	26.9	23.9	20.9	18.0
82.5°	215.4	65.8	35.9	26.9	20.9	18.0	18.0	18.0	18.0	15.0	15.0
85°	137.6	35.9	23.9	20.9	20.9	15.0	12.0	12.0	9.0	9.0	9.0
87.5°	62.8	20.9	20.9	18.0	18.0	15.0	9.0	6.0	3.0	3.0	3.0
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)