

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: P643334

Luminaire Tested: GWS-SA6E-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-760-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36422.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

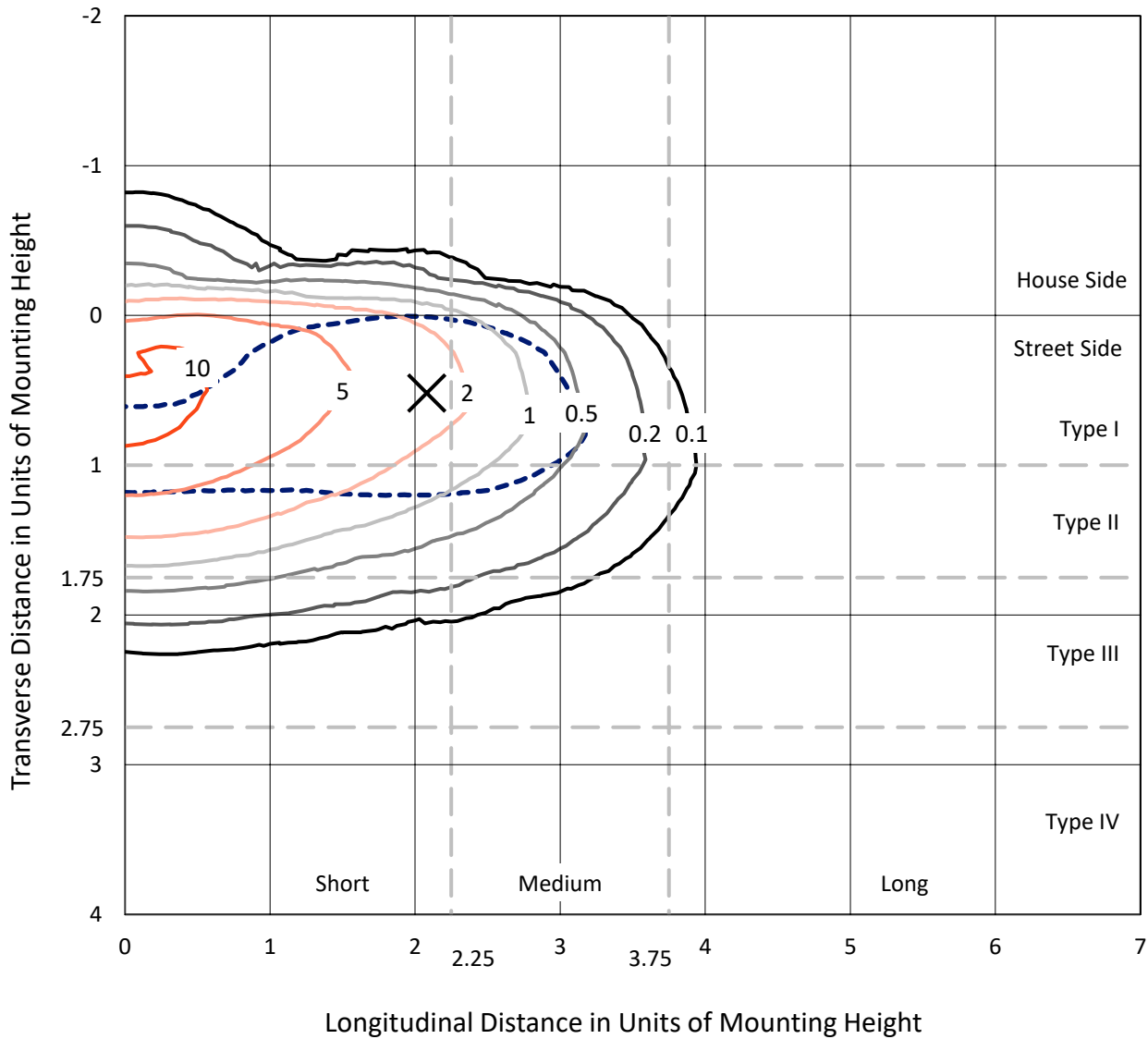
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643334
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Iso-Footcandle Lines of Horizontal Illumination

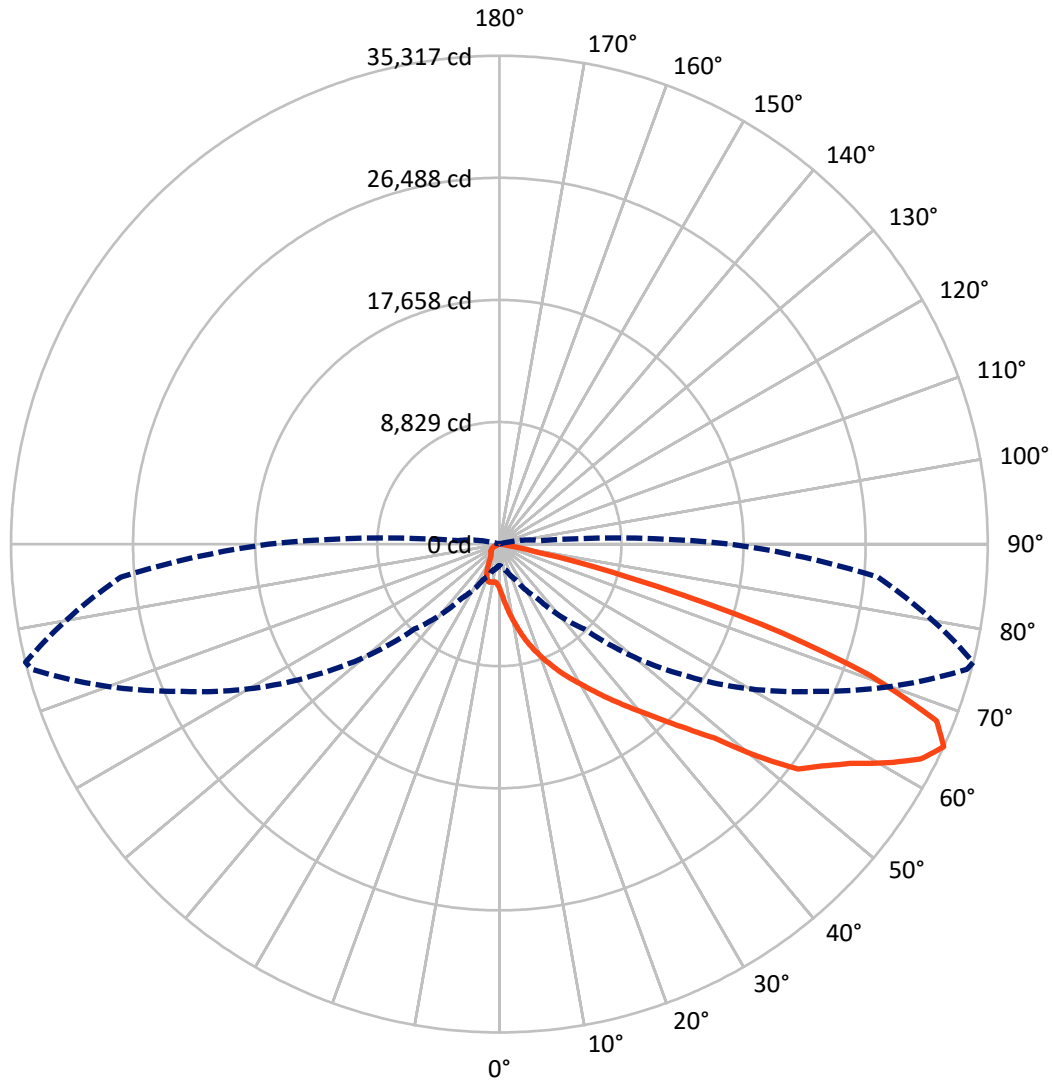
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

REPORT NUMBER: P643334
CATALOG NUMBER: GWS-SA6E-760-U-T2R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2014.0	0.0	2014.0
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	34408.9	0.0	34408.9
	% Fixture	94.5	0.0	94.5
Total	Lumens	36422.9	0.0	36422.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.3	1.1
10°-20°	1488.6	4.1
20°-30°	3037.0	8.3
30°-40°	5401.4	14.8
40°-50°	7984.5	21.9
50°-60°	9141.6	25.1
60°-70°	6974.6	19.1
70°-80°	1953.7	5.4
80°-90°	49.2	0.1
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°	36422.9	100.0
0°-180°	36422.9	100.0

Coefficient of Utilization



REPORT NUMBER: P643334

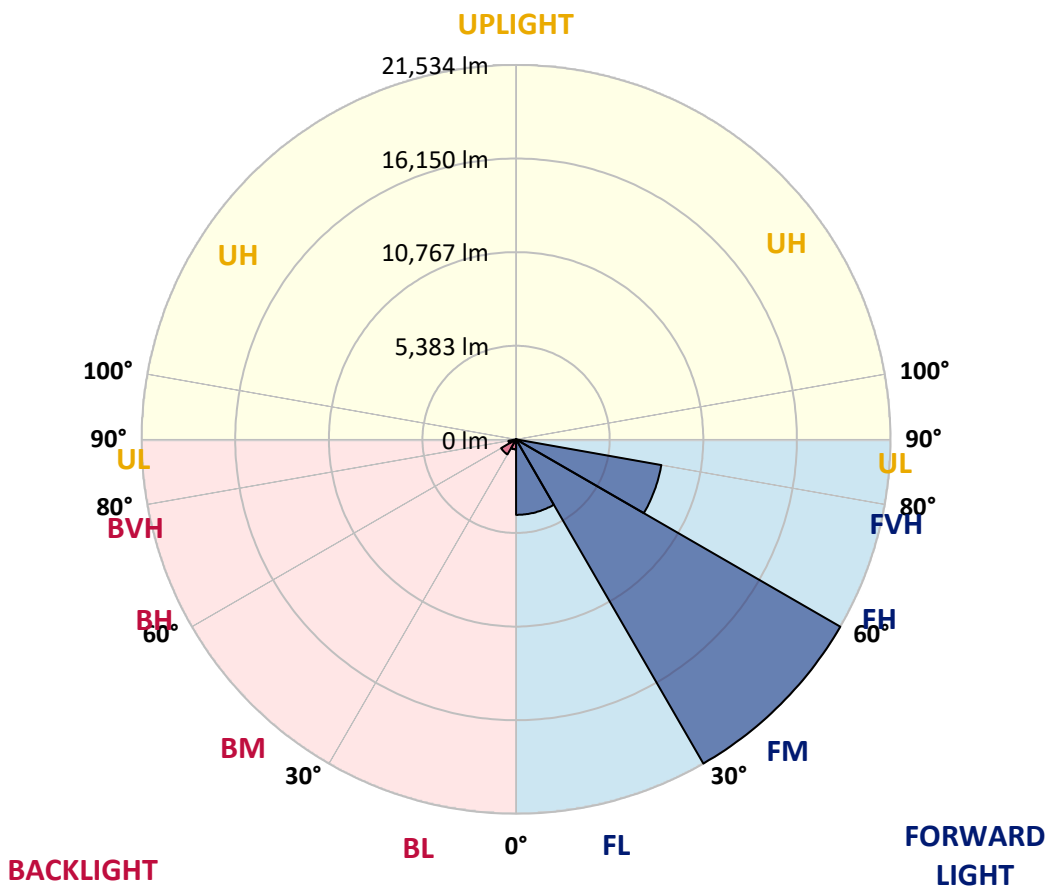
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4343.2	11.9			
FM (30°-60°)	21533.8	59.1			
FH (60°-80°)	8485.6	23.3			G4/12000
FVH (80°-90°)	46.3	0.1			G1/100
BL (0°-30°)	574.7	1.6	B2/1000		
BM (30°-60°)	993.7	2.7	B1/1000		
BH (60°-80°)	442.7	1.2	B1/500		G1/500
BVH (80°-90°)	2.9	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 II Short





REPORT NUMBER: P643334
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8
2.5°	4969.9	5044.3	4986.1	4888.9	4701.1	4519.8	4286.7	3966.2	3710.4	3678.0	3438.4
5°	6711.8	6705.3	6579.0	6452.7	6255.2	5944.4	5475.0	4879.2	4306.1	4257.6	3720.1
7.5°	7747.8	7757.5	7686.3	7589.2	7394.9	7074.4	6585.5	5866.7	5028.2	4931.0	4105.4
10°	8618.8	8615.5	8563.7	8518.4	8343.6	8129.9	7605.4	6815.4	5805.2	5653.0	4536.0
12.5°	9272.8	9295.5	9321.4	9366.7	9292.2	9081.8	8586.4	7725.2	6592.0	6423.6	5028.2
15°	9790.8	9797.3	9894.4	10069.3	10130.8	10020.7	9570.7	8605.8	7369.0	7223.3	5594.8
17.5°	9946.2	9959.2	10124.3	10444.8	10768.6	10830.1	10490.2	9493.0	8133.1	7977.7	6145.2
20°	10273.2	10302.4	10425.4	10707.1	11115.0	11445.3	11312.5	10389.8	8897.2	8693.2	6708.5
22.5°	11302.8	11319.0	11276.9	11312.5	11523.0	11905.0	11986.0	11257.5	9680.7	9463.8	7317.2
25°	13073.9	13080.3	12785.7	12507.3	12348.6	12419.8	12597.9	12057.2	10457.8	10244.1	7883.8
27.5°	14912.9	14935.5	14582.6	14109.9	13543.3	13219.6	13167.8	12788.9	11241.3	11005.0	8443.9
30°	16645.0	16645.0	16272.7	15696.4	14938.8	14307.4	13935.1	13527.1	12079.9	11820.9	9017.0
32.5°	18202.4	18189.4	17713.5	17088.6	16340.7	15647.8	14864.3	14297.7	13012.3	12724.2	9677.5
35°	19487.8	19455.4	18914.7	18315.7	17516.0	17001.2	16127.0	15126.6	14022.5	13734.3	10357.4
37.5°	20459.1	20423.4	19928.1	19293.5	18552.1	18218.6	17486.9	16120.5	15087.7	14825.5	11111.8
40°	20986.8	20915.6	20572.4	20099.7	19478.0	19186.6	18882.3	17354.1	16340.7	16013.7	12002.2
42.5°	21142.2	21058.0	20831.4	20611.2	20235.7	20005.8	20332.8	18746.3	17716.7	17435.0	13018.8
45°	20682.5	20633.9	20614.5	20773.1	20841.1	20905.9	21712.1	20287.5	19235.2	19021.5	14297.7
47.5°	19575.2	19562.2	19733.8	20394.3	21113.1	21796.2	23211.1	22188.0	21203.7	20973.9	16084.9
50°	17528.9	17661.7	18140.9	19300.0	20737.5	22301.3	24613.0	24823.5	24389.6	24052.9	18416.1
52.5°	14330.1	14585.9	15660.8	17422.1	19487.8	22158.9	25260.6	26934.5	27378.0	27028.4	20086.7
55°	11244.6	11484.1	12442.5	14676.5	17431.8	21074.2	25289.7	27663.0	28631.0	28307.3	21216.7
57.5°	8375.9	8596.1	9467.1	11603.9	14634.4	18940.6	24596.9	28067.7	30117.1	29909.9	23000.7
60°	5475.0	5691.9	6478.6	8346.8	11351.4	15832.4	22890.6	27983.5	32140.7	32121.3	25192.6
62.5°	3037.0	3208.6	3778.4	5235.4	7922.7	12261.2	20209.8	27138.5	34099.5	34222.6	26999.2
65°	1554.1	1664.2	2010.6	2878.3	4795.0	8693.2	16683.9	25202.3	35006.1	35316.9	27475.2
67.5°	1016.6	1052.3	1136.4	1495.8	2567.5	5468.5	12555.8	22097.3	33730.4	34093.0	25879.0
70°	825.6	854.8	903.3	997.2	1324.2	2904.2	8246.4	17648.7	28184.2	28430.3	20608.0
72.5°	605.5	644.3	738.2	799.7	955.1	1593.0	4290.0	11584.5	19355.0	19788.9	12950.8
75°	446.8	469.5	547.2	631.4	780.3	1006.9	1641.5	6090.1	9994.8	9742.3	5439.3
77.5°	268.7	284.9	349.7	404.7	556.9	628.1	573.1	2250.2	3040.2	2858.9	1314.5
80°	132.7	148.9	229.9	304.3	356.1	252.5	239.6	628.1	676.7	676.7	330.2
82.5°	45.3	58.3	123.0	200.7	174.8	97.1	113.3	161.9	181.3	191.0	97.1
85°	0.0	0.0	29.1	58.3	25.9	13.0	29.1	35.6	45.3	48.6	32.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	9.7	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643334

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8	3224.8
2.5°	3308.9	3156.8	2926.9	2719.7	2561.0	2412.1	2298.8	2208.1	2191.9	2140.1	2146.6
5°	3457.9	3182.7	2758.5	2431.5	2201.6	2046.2	1916.7	1819.6	1777.5	1735.4	1703.0
7.5°	3687.7	3289.5	2693.8	2295.5	2026.8	1787.2	1586.5	1424.6	1346.9	1298.3	1265.9
10°	3969.4	3438.4	2697.0	2214.6	1816.4	1450.5	1175.3	997.2	913.0	887.1	883.9
12.5°	4306.1	3626.2	2722.9	2081.8	1512.0	1078.2	870.9	790.0	764.1	741.4	741.4
15°	4662.3	3836.7	2722.9	1839.0	1152.6	841.8	754.4	702.6	670.2	657.3	650.8
17.5°	5037.9	4034.2	2658.2	1505.5	883.9	741.4	670.2	621.6	595.7	576.3	569.8
20°	5439.3	4222.0	2496.3	1152.6	757.6	663.7	595.7	547.2	521.3	501.8	501.8
22.5°	5847.3	4396.8	2234.0	887.1	670.2	589.3	524.5	479.2	453.3	433.9	433.9
25°	6226.1	4513.4	1897.3	731.7	605.5	524.5	466.2	420.9	391.8	378.8	372.3
27.5°	6579.0	4587.8	1525.0	644.3	543.9	469.5	408.0	365.9	343.2	333.5	327.0
30°	6944.9	4607.3	1165.6	586.0	492.1	414.4	356.1	323.8	304.3	291.4	291.4
32.5°	7301.0	4584.6	890.4	537.5	446.8	365.9	317.3	288.2	272.0	262.3	259.0
35°	7663.7	4481.0	722.0	495.4	401.5	320.5	281.7	259.0	249.3	236.4	236.4
37.5°	8058.7	4341.8	628.1	453.3	356.1	288.2	252.5	236.4	223.4	213.7	210.5
40°	8550.8	4179.9	576.3	417.7	314.1	259.0	226.6	210.5	200.7	191.0	187.8
42.5°	9133.6	4021.2	550.4	378.8	281.7	229.9	204.0	184.5	174.8	161.9	158.6
45°	9959.2	3985.6	521.3	336.7	252.5	207.2	178.1	158.6	145.7	136.0	132.7
47.5°	11286.6	4086.0	472.7	291.4	223.4	181.3	152.2	136.0	119.8	110.1	103.6
50°	12604.4	4060.1	424.1	252.5	197.5	155.4	129.5	113.3	97.1	87.4	84.2
52.5°	13323.2	3937.1	378.8	223.4	171.6	132.7	110.1	90.7	80.9	71.2	68.0
55°	13973.9	3888.5	333.5	194.3	145.7	116.6	90.7	74.5	68.0	58.3	55.0
57.5°	15249.6	4001.8	294.6	168.4	126.3	100.4	77.7	61.5	55.0	45.3	42.1
60°	16583.5	4014.8	252.5	145.7	110.1	84.2	61.5	48.6	42.1	32.4	29.1
62.5°	17279.6	3687.7	207.2	123.0	90.7	71.2	51.8	38.9	32.4	19.4	19.4
65°	16696.8	2981.9	174.8	100.4	71.2	55.0	38.9	29.1	19.4	9.7	3.2
67.5°	14776.9	2120.7	145.7	80.9	51.8	38.9	29.1	19.4	3.2	0.0	0.0
70°	10820.4	1210.9	113.3	58.3	38.9	25.9	19.4	9.7	0.0	0.0	0.0
72.5°	6650.2	647.5	84.2	38.9	29.1	19.4	16.2	6.5	0.0	0.0	0.0
75°	2522.2	310.8	51.8	25.9	22.7	16.2	9.7	3.2	0.0	0.0	0.0
77.5°	683.2	152.2	29.1	19.4	16.2	9.7	6.5	0.0	0.0	0.0	0.0
80°	178.1	71.2	19.4	13.0	9.7	6.5	0.0	0.0	0.0	0.0	0.0
82.5°	61.5	32.4	9.7	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0
85°	25.9	13.0	6.5	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.2	3.2	3.2	3.2	0.0	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)