

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: P640529

Luminaire Tested: GWS-SA5E-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640529
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-SA5E-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22301 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

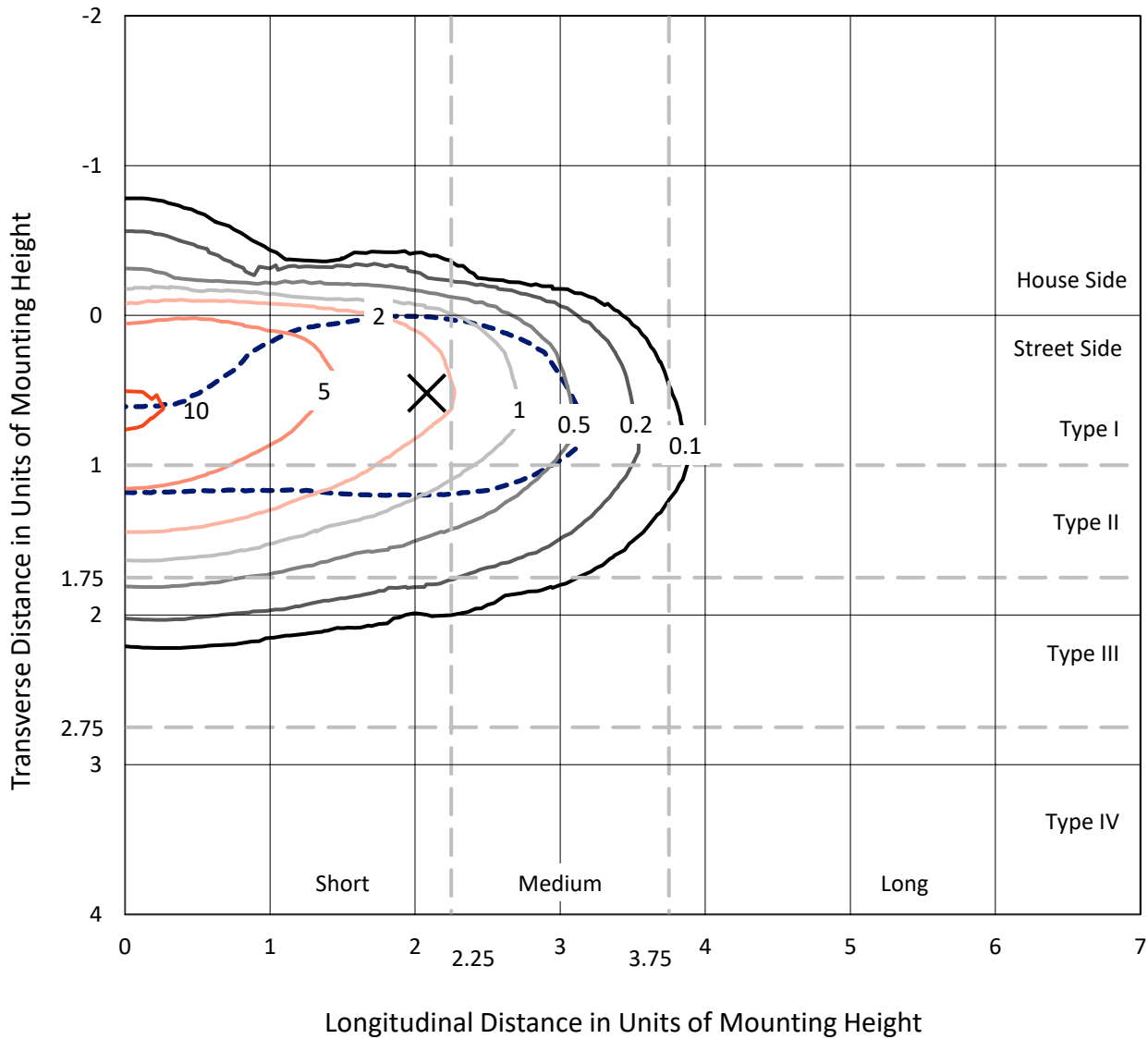
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

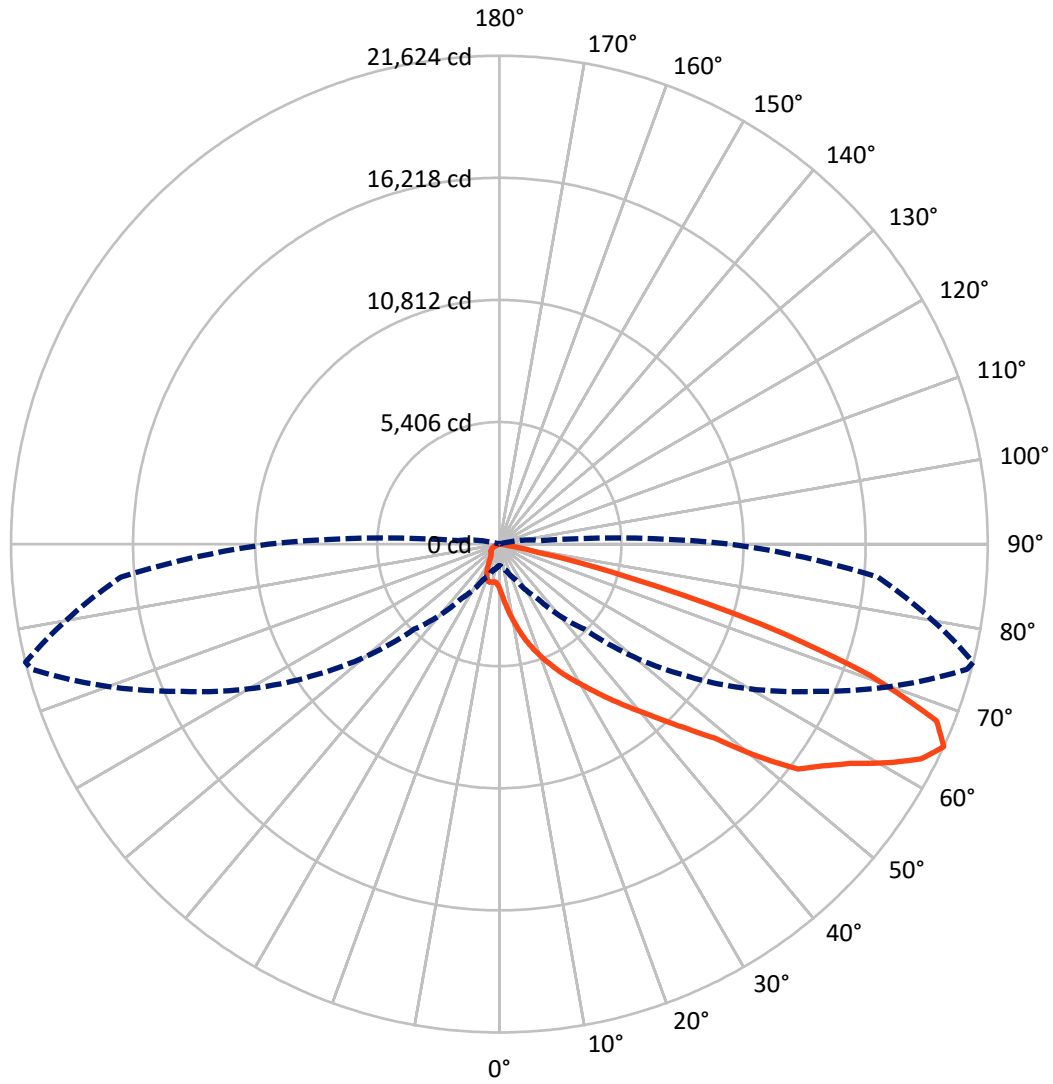
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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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	1233.1	0.0	1233.1
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	21067.9	0.0	21067.9
	% Fixture	94.5	0.0	94.5
Total	Lumens	22301.0	0.0	22301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	1.1
10°-20°	911.4	4.1
20°-30°	1859.5	8.3
30°-40°	3307.1	14.8
40°-50°	4888.7	21.9
50°-60°	5597.2	25.1
60°-70°	4270.4	19.1
70°-80°	1196.2	5.4
80°-90°	30.1	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°	22301.0	100.0
0°-180°	22301.0	100.0

Coefficient of Utilization



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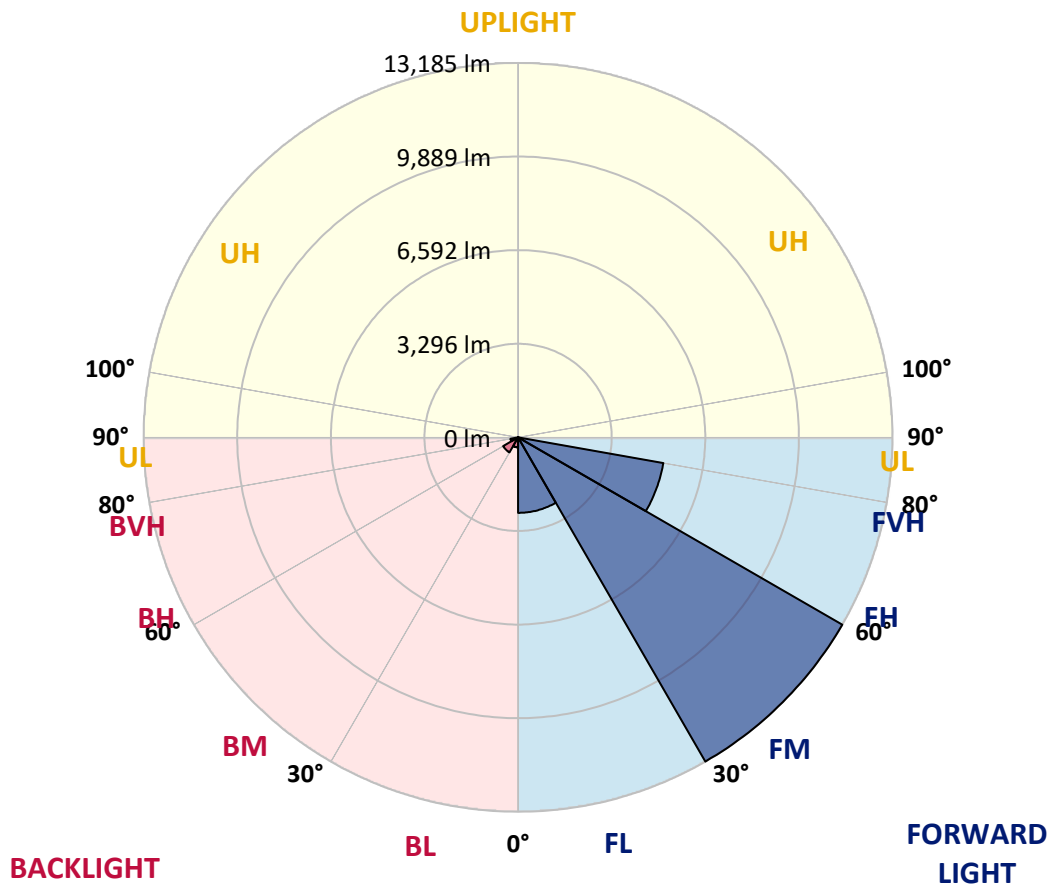
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2659.2	11.9			
FM (30°-60°)	13184.7	59.1			
FH (60°-80°)	5195.6	23.3			G3/7500
FVH (80°-90°)	28.4	0.1			G1/100
BL (0°-30°)	351.9	1.6	B1/500		
BM (30°-60°)	608.4	2.7	B1/1000		
BH (60°-80°)	271.1	1.2	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5
2.5°	3043.0	3088.6	3052.9	2993.4	2878.4	2767.4	2624.7	2428.4	2271.8	2252.0	2105.3
5°	4109.5	4105.5	4028.2	3950.9	3830.0	3639.7	3352.2	2987.4	2636.6	2606.8	2277.8
7.5°	4743.8	4749.8	4706.2	4646.7	4527.8	4331.5	4032.2	3592.1	3078.6	3019.2	2513.7
10°	5277.1	5275.1	5243.4	5215.6	5108.6	4977.8	4656.6	4172.9	3554.4	3461.2	2777.3
12.5°	5677.5	5691.4	5707.3	5735.0	5689.4	5560.6	5257.3	4730.0	4036.1	3933.0	3078.6
15°	5994.7	5998.7	6058.2	6165.2	6202.9	6135.5	5859.9	5269.2	4511.9	4422.7	3425.6
17.5°	6089.9	6097.8	6198.9	6395.2	6593.4	6631.1	6422.9	5812.3	4979.7	4884.6	3762.6
20°	6290.1	6307.9	6383.3	6555.7	6805.5	7007.7	6926.4	6361.5	5447.6	5322.7	4107.5
22.5°	6920.5	6930.4	6904.6	6926.4	7055.3	7289.2	7338.8	6892.7	5927.3	5794.5	4480.2
25°	8004.9	8008.8	7828.4	7657.9	7560.8	7604.4	7713.4	7382.4	6403.1	6272.3	4827.1
27.5°	9130.8	9144.7	8928.6	8639.2	8292.3	8094.1	8062.3	7830.4	6882.8	6738.1	5170.1
30°	10191.4	10191.4	9963.4	9610.6	9146.7	8760.1	8532.2	8282.4	7396.3	7237.7	5520.9
32.5°	11144.9	11137.0	10845.6	10463.0	10005.1	9580.8	9101.1	8754.2	7967.2	7790.8	5925.3
35°	11932.0	11912.1	11581.1	11214.3	10724.7	10409.5	9874.2	9261.7	8585.7	8409.3	6341.6
37.5°	12526.7	12504.9	12201.6	11813.0	11359.0	11154.9	10706.8	9870.3	9237.9	9077.3	6803.5
40°	12849.8	12806.2	12596.1	12306.6	11926.0	11747.6	11561.2	10625.6	10005.1	9804.9	7348.7
42.5°	12945.0	12893.4	12754.6	12619.8	12389.9	12249.1	12449.4	11478.0	10847.6	10675.1	7971.2
45°	12663.5	12633.7	12621.8	12719.0	12760.6	12800.2	13293.8	12421.6	11777.3	11646.5	8754.2
47.5°	11985.5	11977.5	12082.6	12487.0	12927.1	13345.4	14211.7	13585.3	12982.6	12841.9	9848.5
50°	10732.6	10813.9	11107.3	11817.0	12697.2	13654.6	15070.1	15198.9	14933.3	14727.1	11275.8
52.5°	8774.0	8930.6	9588.8	10667.2	11932.0	13567.4	15466.5	16491.4	16763.0	16548.9	12298.7
55°	6884.8	7031.5	7618.3	8986.1	10673.1	12903.3	15484.4	16937.5	17530.2	17332.0	12990.5
57.5°	5128.4	5263.2	5796.5	7104.9	8960.4	11596.9	15060.2	17185.3	18440.1	18313.2	14082.8
60°	3352.2	3485.0	3966.7	5110.6	6950.2	9693.8	14015.4	17133.7	19679.1	19667.2	15424.9
62.5°	1859.5	1964.5	2313.4	3205.5	4850.9	7507.3	12374.0	16616.3	20878.4	20953.8	16531.1
65°	951.5	1018.9	1231.1	1762.3	2935.9	5322.7	10215.2	15430.9	21433.5	21623.8	16822.5
67.5°	622.5	644.3	695.8	915.9	1572.0	3348.2	7687.7	13529.8	20652.4	20874.5	15845.2
70°	505.5	523.3	553.1	610.6	810.8	1778.2	5049.1	10806.0	17256.6	17407.3	12617.9
72.5°	370.7	394.5	452.0	489.6	584.8	975.3	2626.7	7093.0	11850.7	12116.3	7929.5
75°	273.6	287.4	335.0	386.6	477.8	616.5	1005.1	3728.9	6119.6	5965.0	3330.4
77.5°	164.5	174.4	214.1	247.8	341.0	384.6	350.9	1377.8	1861.5	1750.4	804.8
80°	81.3	91.2	140.7	186.3	218.1	154.6	146.7	384.6	414.3	414.3	202.2
82.5°	27.8	35.7	75.3	122.9	107.0	59.5	69.4	99.1	111.0	117.0	59.5
85°	0.0	0.0	17.8	35.7	15.9	7.9	17.8	21.8	27.8	29.7	19.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.9	7.9	7.9
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°	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5
2.5°	2026.0	1932.8	1792.1	1665.2	1568.1	1476.9	1407.5	1352.0	1342.1	1310.4	1314.3
5°	2117.2	1948.7	1689.0	1488.8	1348.0	1252.9	1173.6	1114.1	1088.3	1062.6	1042.7
7.5°	2257.9	2014.1	1649.3	1405.5	1241.0	1094.3	971.4	872.2	824.7	794.9	775.1
10°	2430.4	2105.3	1651.3	1355.9	1112.1	888.1	719.6	610.6	559.0	543.2	541.2
12.5°	2636.6	2220.3	1667.2	1274.7	925.8	660.1	533.3	483.7	467.8	454.0	454.0
15°	2854.6	2349.1	1667.2	1126.0	705.7	515.4	461.9	430.2	410.4	402.4	398.5
17.5°	3084.6	2470.0	1627.5	921.8	541.2	454.0	410.4	380.6	364.8	352.9	348.9
20°	3330.4	2585.0	1528.4	705.7	463.9	406.4	364.8	335.0	319.2	307.3	307.3
22.5°	3580.2	2692.1	1367.8	543.2	410.4	360.8	321.1	293.4	277.5	265.6	265.6
25°	3812.1	2763.4	1161.7	448.0	370.7	321.1	285.5	257.7	239.9	231.9	228.0
27.5°	4028.2	2809.0	933.7	394.5	333.0	287.4	249.8	224.0	210.1	204.2	200.2
30°	4252.2	2820.9	713.7	358.8	301.3	253.7	218.1	198.2	186.3	178.4	178.4
32.5°	4470.3	2807.1	545.2	329.1	273.6	224.0	194.3	176.4	166.5	160.6	158.6
35°	4692.3	2743.6	442.1	303.3	245.8	196.3	172.5	158.6	152.6	144.7	144.7
37.5°	4934.1	2658.4	384.6	277.5	218.1	176.4	154.6	144.7	136.8	130.8	128.9
40°	5235.5	2559.3	352.9	255.7	192.3	158.6	138.8	128.9	122.9	117.0	115.0
42.5°	5592.3	2462.1	337.0	231.9	172.5	140.7	124.9	113.0	107.0	99.1	97.1
45°	6097.8	2440.3	319.2	206.2	154.6	126.9	109.0	97.1	89.2	83.3	81.3
47.5°	6910.6	2501.8	289.4	178.4	136.8	111.0	93.2	83.3	73.3	67.4	63.4
50°	7717.4	2485.9	259.7	154.6	120.9	95.2	79.3	69.4	59.5	53.5	51.5
52.5°	8157.5	2410.6	231.9	136.8	105.1	81.3	67.4	55.5	49.6	43.6	41.6
55°	8556.0	2380.8	204.2	118.9	89.2	71.4	55.5	45.6	41.6	35.7	33.7
57.5°	9337.0	2450.2	180.4	103.1	77.3	61.5	47.6	37.7	33.7	27.8	25.8
60°	10153.8	2458.2	154.6	89.2	67.4	51.5	37.7	29.7	25.8	19.8	17.8
62.5°	10580.0	2257.9	126.9	75.3	55.5	43.6	31.7	23.8	19.8	11.9	11.9
65°	10223.1	1825.8	107.0	61.5	43.6	33.7	23.8	17.8	11.9	5.9	2.0
67.5°	9047.6	1298.5	89.2	49.6	31.7	23.8	17.8	11.9	2.0	0.0	0.0
70°	6625.1	741.4	69.4	35.7	23.8	15.9	11.9	5.9	0.0	0.0	0.0
72.5°	4071.8	396.5	51.5	23.8	17.8	11.9	9.9	4.0	0.0	0.0	0.0
75°	1544.3	190.3	31.7	15.9	13.9	9.9	5.9	2.0	0.0	0.0	0.0
77.5°	418.3	93.2	17.8	11.9	9.9	5.9	4.0	0.0	0.0	0.0	0.0
80°	109.0	43.6	11.9	7.9	5.9	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.7	19.8	5.9	5.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	15.9	7.9	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.0	2.0	2.0	2.0	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)