

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: P639869

Luminaire Tested: GWS-SA5C-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639869
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-SA5C-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19375.2 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

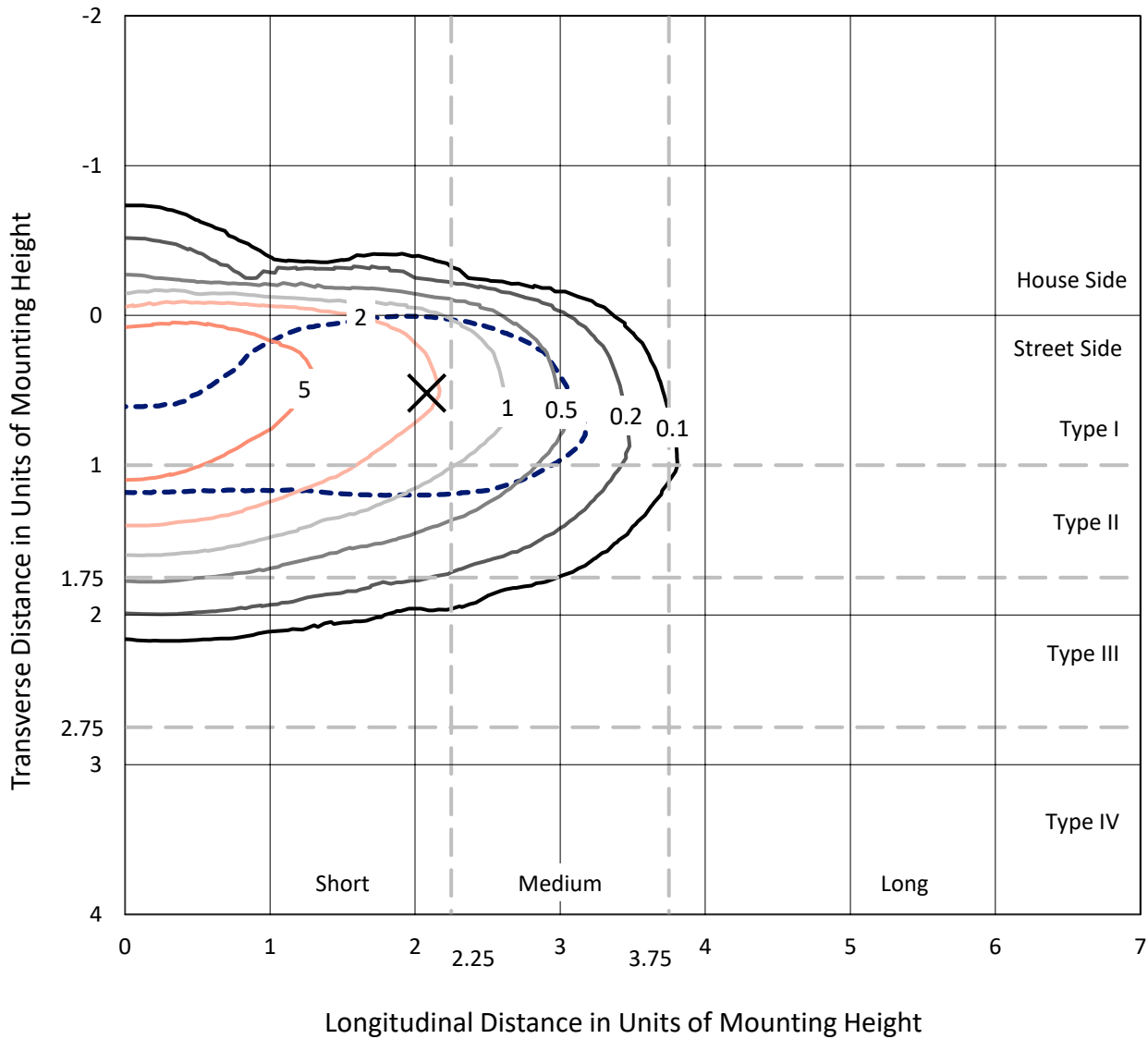
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

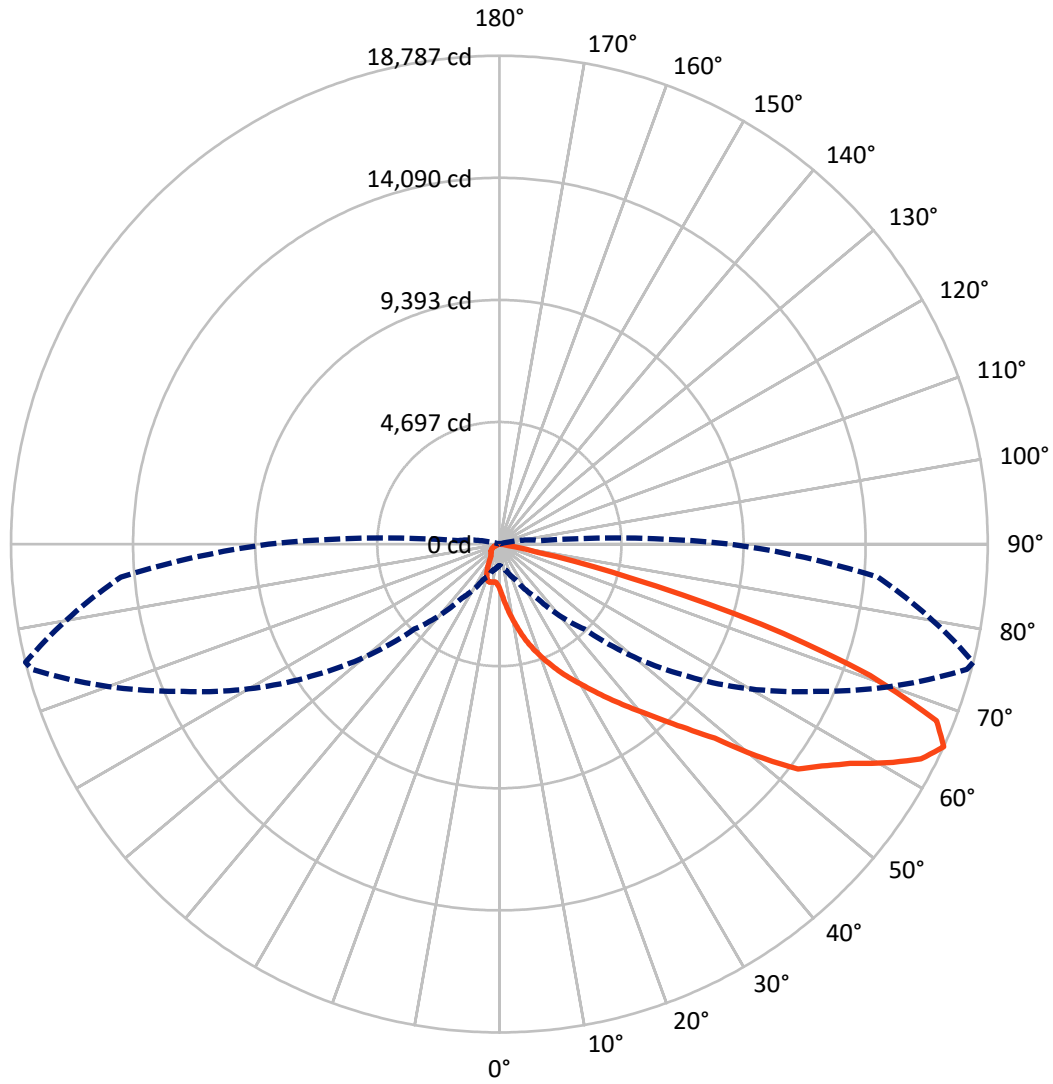
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	1071.3	0.0	1071.3
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	18303.9	0.0	18303.9
	% Fixture	94.5	0.0	94.5
Total	Lumens	19375.2	0.0	19375.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	1.1
10°-20°	791.9	4.1
20°-30°	1615.5	8.3
30°-40°	2873.3	14.8
40°-50°	4247.4	21.9
50°-60°	4862.9	25.1
60°-70°	3710.2	19.1
70°-80°	1039.3	5.4
80°-90°	26.2	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°	19375.2	100.0
0°-180°	19375.2	100.0

Coefficient of Utilization



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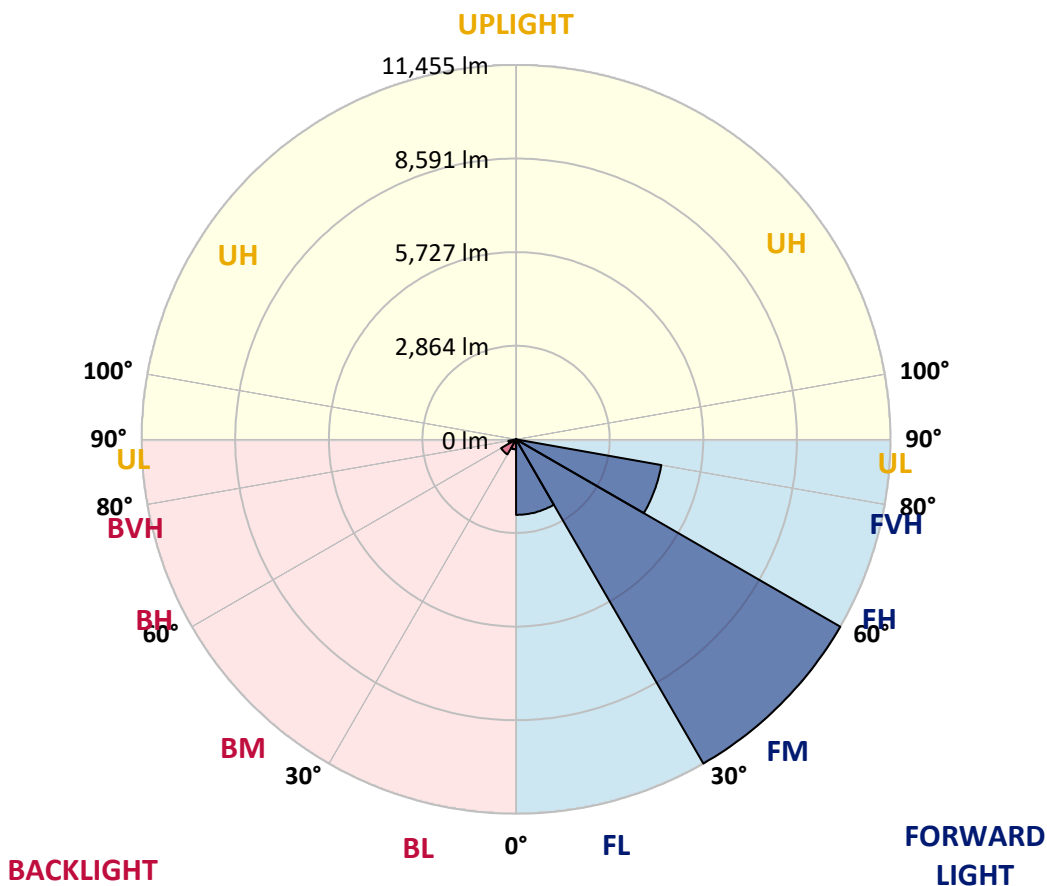
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2310.4	11.9			
FM (30°-60°)	11454.9	59.1			
FH (60°-80°)	4513.9	23.3			G2/5000
FVH (80°-90°)	24.6	0.1			G1/100
BL (0°-30°)	305.7	1.6	B1/500		
BM (30°-60°)	528.6	2.7	B1/1000		
BH (60°-80°)	235.5	1.2	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	2643.7	2683.3	2652.3	2600.7	2500.8	2404.3	2280.3	2109.8	1973.8	1956.5	1829.1
5°	3570.3	3566.9	3499.7	3432.5	3327.5	3162.1	2912.4	2595.5	2290.7	2264.8	1978.9
7.5°	4121.5	4126.6	4088.7	4037.1	3933.7	3763.2	3503.2	3120.8	2674.7	2623.1	2183.9
10°	4584.8	4583.0	4555.5	4531.4	4438.4	4324.7	4045.7	3625.4	3088.1	3007.1	2412.9
12.5°	4932.7	4944.7	4958.5	4982.6	4943.0	4831.1	4567.5	4109.4	3506.6	3417.0	2674.7
15°	5208.2	5211.7	5263.4	5356.4	5389.1	5330.5	5091.1	4577.9	3920.0	3842.5	2976.1
17.5°	5290.9	5297.8	5385.6	5556.1	5728.4	5761.1	5580.3	5049.8	4326.4	4243.7	3268.9
20°	5464.9	5480.4	5545.8	5695.6	5912.7	6088.3	6017.7	5526.9	4732.9	4624.4	3568.6
22.5°	6012.6	6021.2	5998.8	6017.7	6129.7	6332.9	6376.0	5988.4	5149.7	5034.3	3892.4
25°	6954.7	6958.1	6801.4	6653.2	6568.9	6606.7	6701.5	6413.8	5563.0	5449.4	4193.8
27.5°	7932.9	7945.0	7757.2	7505.8	7204.4	7032.2	7004.6	6803.1	5979.8	5854.1	4491.8
30°	8854.3	8854.3	8656.3	8349.7	7946.7	7610.8	7412.8	7195.8	6425.9	6288.1	4796.6
32.5°	9682.8	9675.9	9422.7	9090.3	8692.5	8323.9	7907.1	7605.7	6921.9	6768.6	5148.0
35°	10366.5	10349.3	10061.7	9743.1	9317.6	9043.8	8578.8	8046.6	7459.3	7306.0	5509.6
37.5°	10883.2	10864.3	10600.8	10263.2	9868.8	9691.4	9302.1	8575.3	8025.9	7886.4	5910.9
40°	11164.0	11126.1	10943.5	10692.0	10361.4	10206.4	10044.5	9231.5	8692.5	8518.5	6384.6
42.5°	11246.6	11201.8	11081.3	10964.2	10764.4	10642.1	10816.1	9972.1	9424.4	9274.6	6925.4
45°	11002.1	10976.2	10965.9	11050.3	11086.5	11120.9	11549.8	10791.9	10232.2	10118.5	7605.7
47.5°	10413.0	10406.1	10497.4	10848.8	11231.1	11594.5	12347.2	11802.9	11279.3	11157.1	8556.4
50°	9324.5	9395.2	9650.1	10266.6	11031.3	11863.2	13092.9	13204.9	12974.1	12795.0	9796.4
52.5°	7622.9	7759.0	8330.8	9267.7	10366.5	11787.4	13437.4	14327.8	14563.8	14377.8	10685.2
55°	5981.6	6109.0	6618.8	7807.2	9272.9	11210.5	13452.9	14715.3	15230.3	15058.1	11286.2
57.5°	4455.6	4572.7	5036.0	6172.7	7784.8	10075.5	13084.3	14930.6	16020.8	15910.6	12235.2
60°	2912.4	3027.8	3446.3	4440.1	6038.4	8422.1	12176.7	14885.8	17097.3	17086.9	13401.2
62.5°	1615.5	1706.8	2009.9	2785.0	4214.5	6522.4	10750.6	14436.3	18139.3	18204.7	14362.3
65°	826.7	885.3	1069.5	1531.1	2550.7	4624.4	8875.0	13406.4	18621.5	18786.9	14615.4
67.5°	540.8	559.7	604.5	795.7	1365.8	2909.0	6679.1	11754.7	17942.9	18135.8	13766.4
70°	439.2	454.7	480.5	530.5	704.4	1544.9	4386.7	9388.3	14992.6	15123.5	10962.4
72.5°	322.1	342.7	392.7	425.4	508.1	847.4	2282.0	6162.4	10295.9	10526.7	6889.2
75°	237.7	249.7	291.1	335.8	415.1	535.6	873.2	3239.6	5316.7	5182.4	2893.5
77.5°	143.0	151.6	186.0	215.3	296.2	334.1	304.8	1197.0	1617.2	1520.8	699.3
80°	70.6	79.2	122.3	161.9	189.5	134.3	127.5	334.1	360.0	360.0	175.7
82.5°	24.1	31.0	65.4	106.8	93.0	51.7	60.3	86.1	96.4	101.6	51.7
85°	0.0	0.0	15.5	31.0	13.8	6.9	15.5	18.9	24.1	25.8	17.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	6.9	6.9
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°	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1760.2	1679.2	1557.0	1446.7	1362.3	1283.1	1222.8	1174.6	1166.0	1138.4	1141.9
5°	1839.4	1693.0	1467.4	1293.4	1171.2	1088.5	1019.6	967.9	945.5	923.2	905.9
7.5°	1961.7	1749.9	1433.0	1221.1	1078.2	950.7	843.9	757.8	716.5	690.6	673.4
10°	2111.5	1829.1	1434.7	1178.1	966.2	771.6	625.2	530.5	485.7	471.9	470.2
12.5°	2290.7	1929.0	1448.5	1107.4	804.3	573.5	463.3	420.2	406.5	394.4	394.4
15°	2480.1	2040.9	1448.5	978.3	613.1	447.8	401.3	373.7	356.5	349.6	346.2
17.5°	2679.9	2146.0	1414.0	800.9	470.2	394.4	356.5	330.7	316.9	306.6	303.1
20°	2893.5	2245.9	1327.9	613.1	403.0	353.1	316.9	291.1	277.3	267.0	267.0
22.5°	3110.5	2338.9	1188.4	471.9	356.5	313.5	279.0	254.9	241.1	230.8	230.8
25°	3312.0	2400.9	1009.3	389.2	322.1	279.0	248.0	223.9	208.4	201.5	198.1
27.5°	3499.7	2440.5	811.2	342.7	289.3	249.7	217.0	194.6	182.6	177.4	174.0
30°	3694.3	2450.8	620.0	311.7	261.8	220.5	189.5	172.2	161.9	155.0	155.0
32.5°	3883.8	2438.8	473.6	285.9	237.7	194.6	168.8	153.3	144.7	139.5	137.8
35°	4076.7	2383.7	384.1	263.5	213.6	170.5	149.8	137.8	132.6	125.7	125.7
37.5°	4286.8	2309.6	334.1	241.1	189.5	153.3	134.3	125.7	118.8	113.7	111.9
40°	4548.6	2223.5	306.6	222.2	167.1	137.8	120.6	111.9	106.8	101.6	99.9
42.5°	4858.6	2139.1	292.8	201.5	149.8	122.3	108.5	98.2	93.0	86.1	84.4
45°	5297.8	2120.2	277.3	179.1	134.3	110.2	94.7	84.4	77.5	72.3	70.6
47.5°	6003.9	2173.5	251.5	155.0	118.8	96.4	80.9	72.3	63.7	58.6	55.1
50°	6704.9	2159.8	225.6	134.3	105.1	82.7	68.9	60.3	51.7	46.5	44.8
52.5°	7087.3	2094.3	201.5	118.8	91.3	70.6	58.6	48.2	43.1	37.9	36.2
55°	7433.5	2068.5	177.4	103.3	77.5	62.0	48.2	39.6	36.2	31.0	29.3
57.5°	8112.0	2128.8	156.7	89.6	67.2	53.4	41.3	32.7	29.3	24.1	22.4
60°	8821.6	2135.7	134.3	77.5	58.6	44.8	32.7	25.8	22.4	17.2	15.5
62.5°	9191.9	1961.7	110.2	65.4	48.2	37.9	27.6	20.7	17.2	10.3	10.3
65°	8881.9	1586.2	93.0	53.4	37.9	29.3	20.7	15.5	10.3	5.2	1.7
67.5°	7860.6	1128.1	77.5	43.1	27.6	20.7	15.5	10.3	1.7	0.0	0.0
70°	5755.9	644.1	60.3	31.0	20.7	13.8	10.3	5.2	0.0	0.0	0.0
72.5°	3537.6	344.5	44.8	20.7	15.5	10.3	8.6	3.4	0.0	0.0	0.0
75°	1341.7	165.3	27.6	13.8	12.1	8.6	5.2	1.7	0.0	0.0	0.0
77.5°	363.4	80.9	15.5	10.3	8.6	5.2	3.4	0.0	0.0	0.0	0.0
80°	94.7	37.9	10.3	6.9	5.2	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	32.7	17.2	5.2	5.2	3.4	1.7	0.0	0.0	0.0	0.0	0.0
85°	13.8	6.9	3.4	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.7	1.7	1.7	1.7	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)