

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: P637669

Luminaire Tested: GWS-SA4D-730-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637669
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-SA4D-730-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17984.5 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

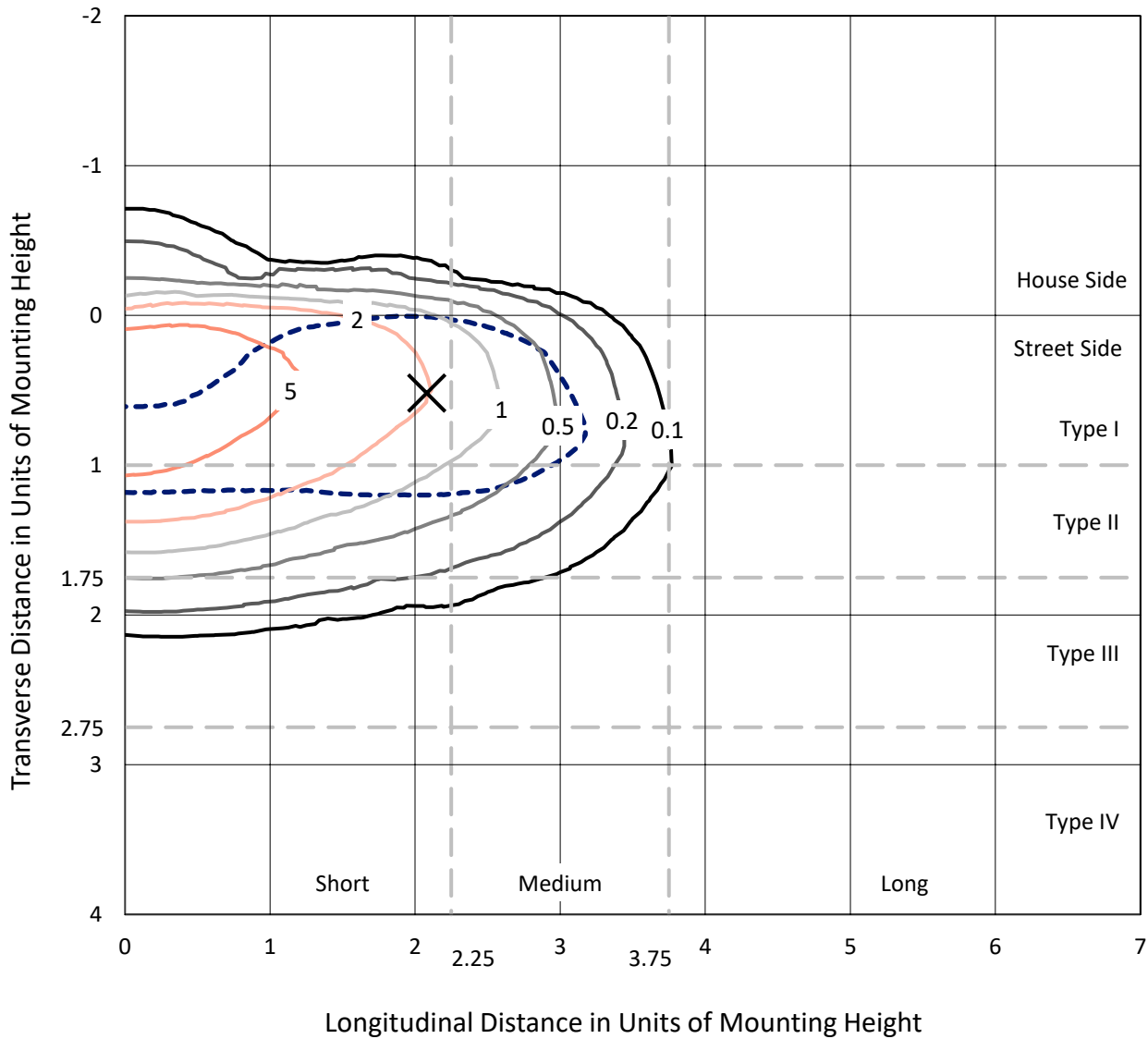
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

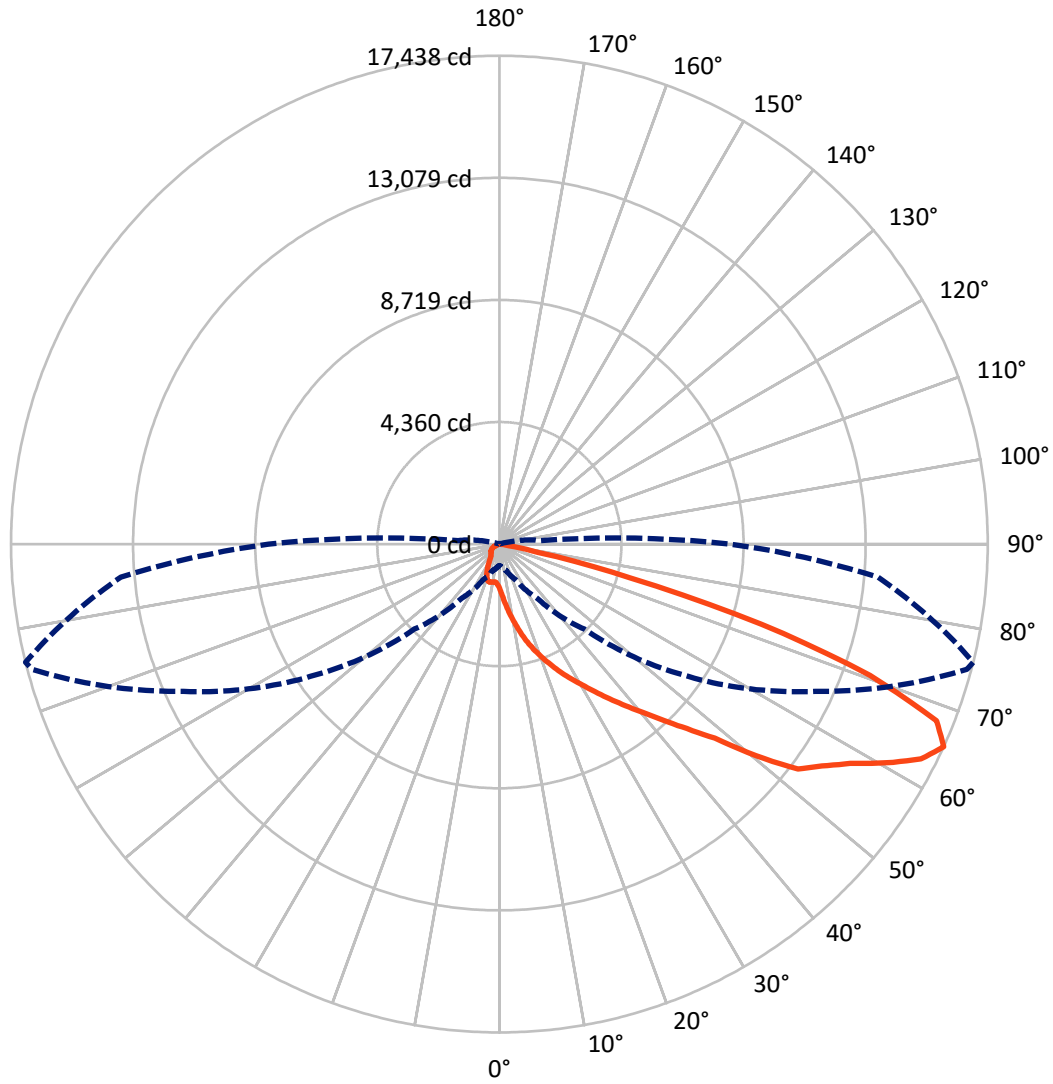
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	994.4	0.0	994.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	16990.1	0.0	16990.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	17984.5	0.0	17984.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	1.1
10°-20°	735.0	4.1
20°-30°	1499.6	8.3
30°-40°	2667.0	14.8
40°-50°	3942.5	21.9
50°-60°	4513.9	25.1
60°-70°	3443.9	19.1
70°-80°	964.7	5.4
80°-90°	24.3	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°	17984.5	100.0
0°-180°	17984.5	100.0

Coefficient of Utilization



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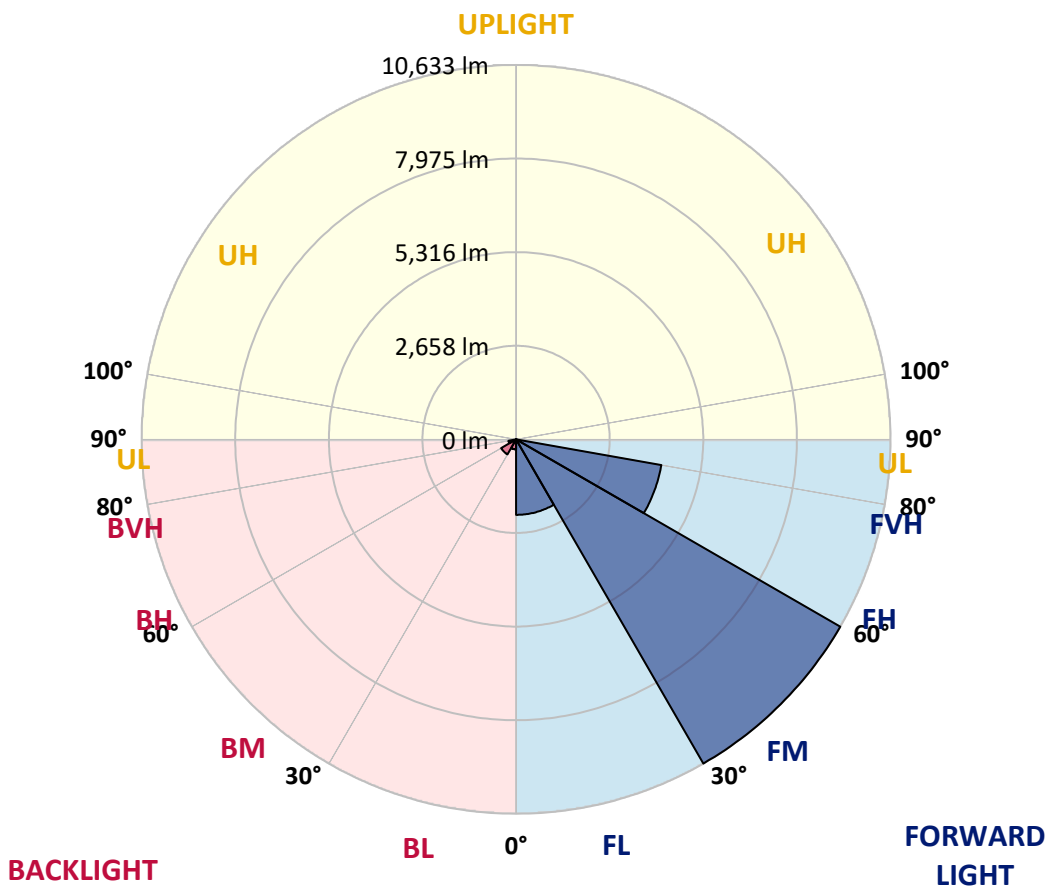
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2144.5	11.9			
FM (30°-60°)	10632.7	59.1			
FH (60°-80°)	4190.0	23.3			G2/5000
FVH (80°-90°)	22.9	0.1			G1/100
BL (0°-30°)	283.8	1.6	B1/500		
BM (30°-60°)	490.6	2.7	B1/1000		
BH (60°-80°)	218.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.4	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°	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3
2.5°	2454.0	2490.7	2462.0	2414.0	2321.3	2231.8	2116.7	1958.4	1832.1	1816.1	1697.8
5°	3314.1	3310.9	3248.5	3186.2	3088.6	2935.2	2703.4	2409.2	2126.2	2102.3	1836.9
7.5°	3825.6	3830.4	3795.3	3747.3	3651.4	3493.1	3251.7	2896.8	2482.7	2434.8	2027.1
10°	4255.7	4254.1	4228.5	4206.1	4119.8	4014.3	3755.3	3365.2	2866.4	2791.3	2239.7
12.5°	4578.6	4589.8	4602.6	4625.0	4588.2	4484.3	4239.7	3814.4	3254.9	3171.8	2482.7
15°	4834.4	4837.6	4885.6	4971.9	5002.3	4947.9	4725.7	4249.3	3638.6	3566.7	2762.5
17.5°	4911.1	4917.5	4999.1	5157.3	5317.2	5347.6	5179.7	4687.3	4015.9	3939.1	3034.3
20°	5072.6	5087.0	5147.7	5286.8	5488.3	5651.3	5585.8	5130.2	4393.2	4292.5	3312.5
22.5°	5581.0	5589.0	5568.2	5585.8	5689.7	5878.3	5918.3	5558.6	4780.1	4672.9	3613.0
25°	6455.5	6458.7	6313.2	6175.7	6097.4	6132.5	6220.5	5953.5	5163.7	5058.2	3892.8
27.5°	7363.5	7374.7	7200.4	6967.0	6687.3	6527.4	6501.8	6314.8	5550.6	5433.9	4169.4
30°	8218.8	8218.8	8035.0	7750.4	7376.3	7064.6	6880.7	6679.3	5964.7	5836.8	4452.3
32.5°	8987.8	8981.4	8746.4	8437.8	8068.5	7726.4	7339.5	7059.8	6425.1	6282.8	4778.5
35°	9622.4	9606.5	9339.5	9043.7	8648.9	8394.7	7963.0	7469.0	6923.9	6781.6	5114.2
37.5°	10102.1	10084.5	9839.9	9526.5	9160.4	8995.8	8634.5	7959.8	7449.8	7320.4	5486.7
40°	10362.6	10327.5	10158.0	9924.6	9617.7	9473.8	9323.5	8568.9	8068.5	7907.1	5926.3
42.5°	10439.4	10397.8	10285.9	10177.2	9991.7	9878.2	10039.7	9256.4	8748.0	8608.9	6428.3
45°	10212.4	10188.4	10178.8	10257.1	10290.7	10322.7	10720.7	10017.3	9497.8	9392.2	7059.8
47.5°	9665.6	9659.2	9743.9	10070.1	10425.0	10762.3	11460.9	10955.7	10469.7	10356.2	7942.2
50°	8655.2	8720.8	8957.4	9529.7	10239.5	11011.7	12153.2	12257.1	12042.8	11876.6	9093.3
52.5°	7075.8	7202.0	7732.8	8602.5	9622.4	10941.4	12472.9	13299.4	13518.4	13345.8	9918.2
55°	5552.2	5670.5	6143.7	7246.8	8607.3	10405.8	12487.3	13659.1	14137.1	13977.2	10476.1
57.5°	4135.8	4244.5	4674.5	5729.7	7226.0	9352.3	12145.2	13858.9	14870.9	14768.6	11357.0
60°	2703.4	2810.5	3199.0	4121.4	5605.0	7817.5	11302.7	13817.4	15870.1	15860.5	12439.3
62.5°	1499.6	1584.3	1865.7	2585.1	3912.0	6054.2	9979.0	13400.1	16837.3	16898.0	13331.4
65°	767.4	821.7	992.8	1421.2	2367.6	4292.5	8238.0	12444.1	17284.9	17438.4	13566.4
67.5°	502.0	519.6	561.1	738.6	1267.8	2700.2	6199.7	10911.0	16655.0	16834.1	12778.2
70°	407.7	422.1	446.0	492.4	653.9	1434.0	4071.8	8714.4	13916.5	14038.0	10175.6
72.5°	299.0	318.1	364.5	394.9	471.6	786.6	2118.2	5720.1	9556.9	9771.1	6394.7
75°	220.6	231.8	270.2	311.7	385.3	497.2	810.5	3007.1	4935.1	4810.4	2685.8
77.5°	132.7	140.7	172.7	199.8	275.0	310.1	283.0	1111.1	1501.2	1411.6	649.1
80°	65.5	73.5	113.5	150.3	175.9	124.7	118.3	310.1	334.1	334.1	163.1
82.5°	22.4	28.8	60.7	99.1	86.3	48.0	56.0	79.9	89.5	94.3	48.0
85°	0.0	0.0	14.4	28.8	12.8	6.4	14.4	17.6	22.4	24.0	16.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.4	6.4
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°	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3
2.5°	1633.8	1558.7	1445.2	1342.9	1264.6	1191.0	1135.1	1090.3	1082.3	1056.7	1059.9
5°	1707.4	1571.5	1362.1	1200.6	1087.1	1010.4	946.4	898.5	877.7	856.9	840.9
7.5°	1820.9	1624.3	1330.1	1133.5	1000.8	882.5	783.4	703.4	665.1	641.1	625.1
10°	1960.0	1697.8	1331.7	1093.5	896.9	716.2	580.3	492.4	450.8	438.0	436.4
12.5°	2126.2	1790.5	1344.5	1028.0	746.6	532.4	430.0	390.1	377.3	366.1	366.1
15°	2302.1	1894.4	1344.5	908.0	569.1	415.7	372.5	346.9	330.9	324.5	321.3
17.5°	2487.5	1992.0	1312.5	743.4	436.4	366.1	330.9	306.9	294.2	284.6	281.4
20°	2685.8	2084.7	1232.6	569.1	374.1	327.7	294.2	270.2	257.4	247.8	247.8
22.5°	2887.2	2171.0	1103.1	438.0	330.9	291.0	259.0	236.6	223.8	214.2	214.2
25°	3074.3	2228.6	936.8	361.3	299.0	259.0	230.2	207.8	193.4	187.0	183.8
27.5°	3248.5	2265.3	753.0	318.1	268.6	231.8	201.4	180.7	169.5	164.7	161.5
30°	3429.2	2274.9	575.5	289.4	243.0	204.6	175.9	159.9	150.3	143.9	143.9
32.5°	3605.0	2263.7	439.6	265.4	220.6	180.7	156.7	142.3	134.3	129.5	127.9
35°	3784.1	2212.6	356.5	244.6	198.2	158.3	139.1	127.9	123.1	116.7	116.7
37.5°	3979.1	2143.8	310.1	223.8	175.9	142.3	124.7	116.7	110.3	105.5	103.9
40°	4222.1	2063.9	284.6	206.2	155.1	127.9	111.9	103.9	99.1	94.3	92.7
42.5°	4509.9	1985.6	271.8	187.0	139.1	113.5	100.7	91.1	86.3	79.9	78.3
45°	4917.5	1968.0	257.4	166.3	124.7	102.3	87.9	78.3	71.9	67.1	65.5
47.5°	5573.0	2017.5	233.4	143.9	110.3	89.5	75.1	67.1	59.2	54.4	51.2
50°	6223.7	2004.7	209.4	124.7	97.5	76.7	63.9	56.0	48.0	43.2	41.6
52.5°	6578.6	1944.0	187.0	110.3	84.7	65.5	54.4	44.8	40.0	35.2	33.6
55°	6899.9	1920.0	164.7	95.9	71.9	57.6	44.8	36.8	33.6	28.8	27.2
57.5°	7529.8	1976.0	145.5	83.1	62.3	49.6	38.4	30.4	27.2	22.4	20.8
60°	8188.4	1982.4	124.7	71.9	54.4	41.6	30.4	24.0	20.8	16.0	14.4
62.5°	8532.1	1820.9	102.3	60.7	44.8	35.2	25.6	19.2	16.0	9.6	9.6
65°	8244.4	1472.4	86.3	49.6	35.2	27.2	19.2	14.4	9.6	4.8	1.6
67.5°	7296.4	1047.1	71.9	40.0	25.6	19.2	14.4	9.6	1.6	0.0	0.0
70°	5342.8	597.9	56.0	28.8	19.2	12.8	9.6	4.8	0.0	0.0	0.0
72.5°	3283.7	319.7	41.6	19.2	14.4	9.6	8.0	3.2	0.0	0.0	0.0
75°	1245.4	153.5	25.6	12.8	11.2	8.0	4.8	1.6	0.0	0.0	0.0
77.5°	337.3	75.1	14.4	9.6	8.0	4.8	3.2	0.0	0.0	0.0	0.0
80°	87.9	35.2	9.6	6.4	4.8	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	30.4	16.0	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	12.8	6.4	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.6	1.6	1.6	1.6	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)