

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: P635799

Luminaire Tested: GWS-SA3E-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635799
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-SA3E-740-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17735.7 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

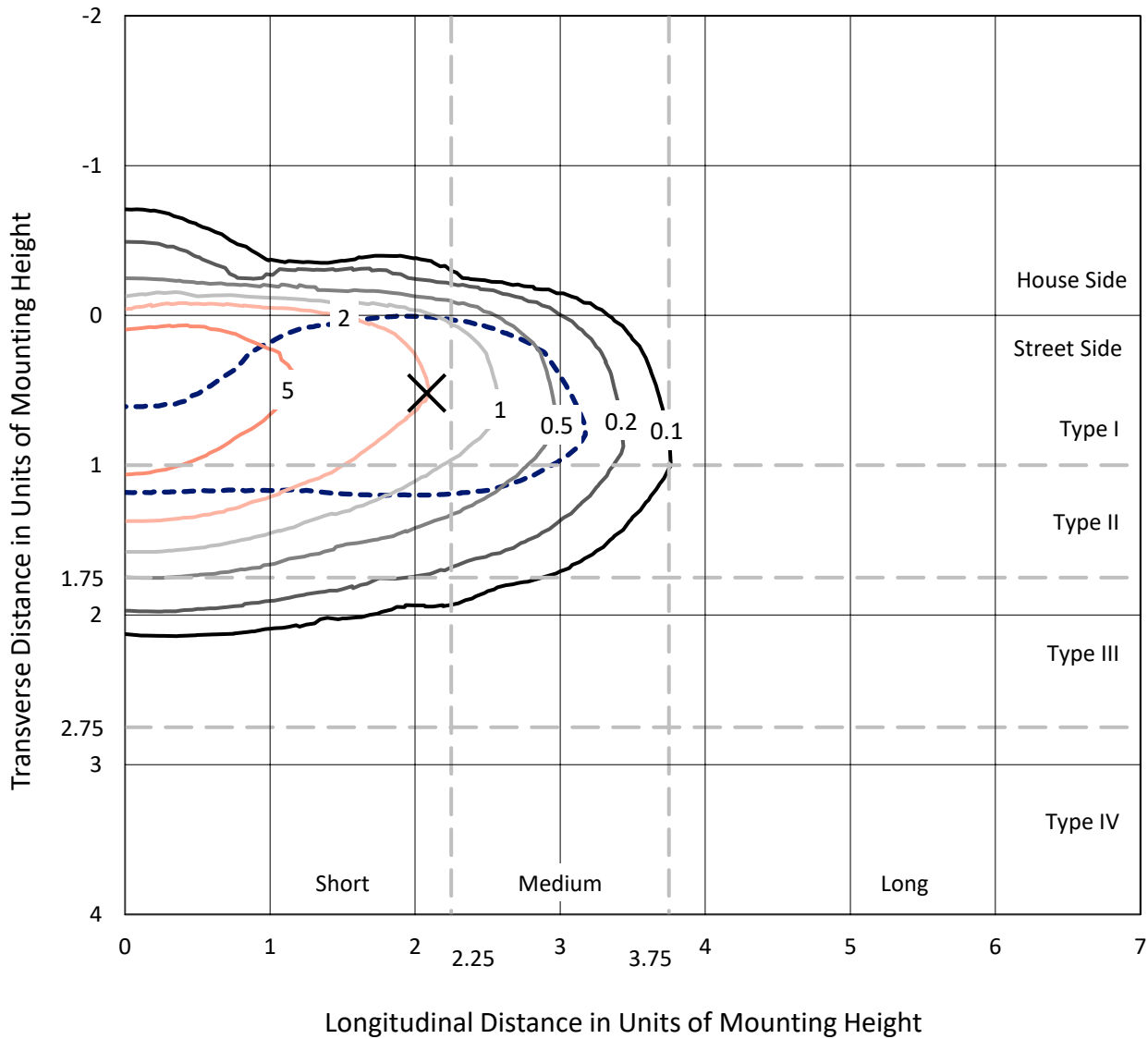
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

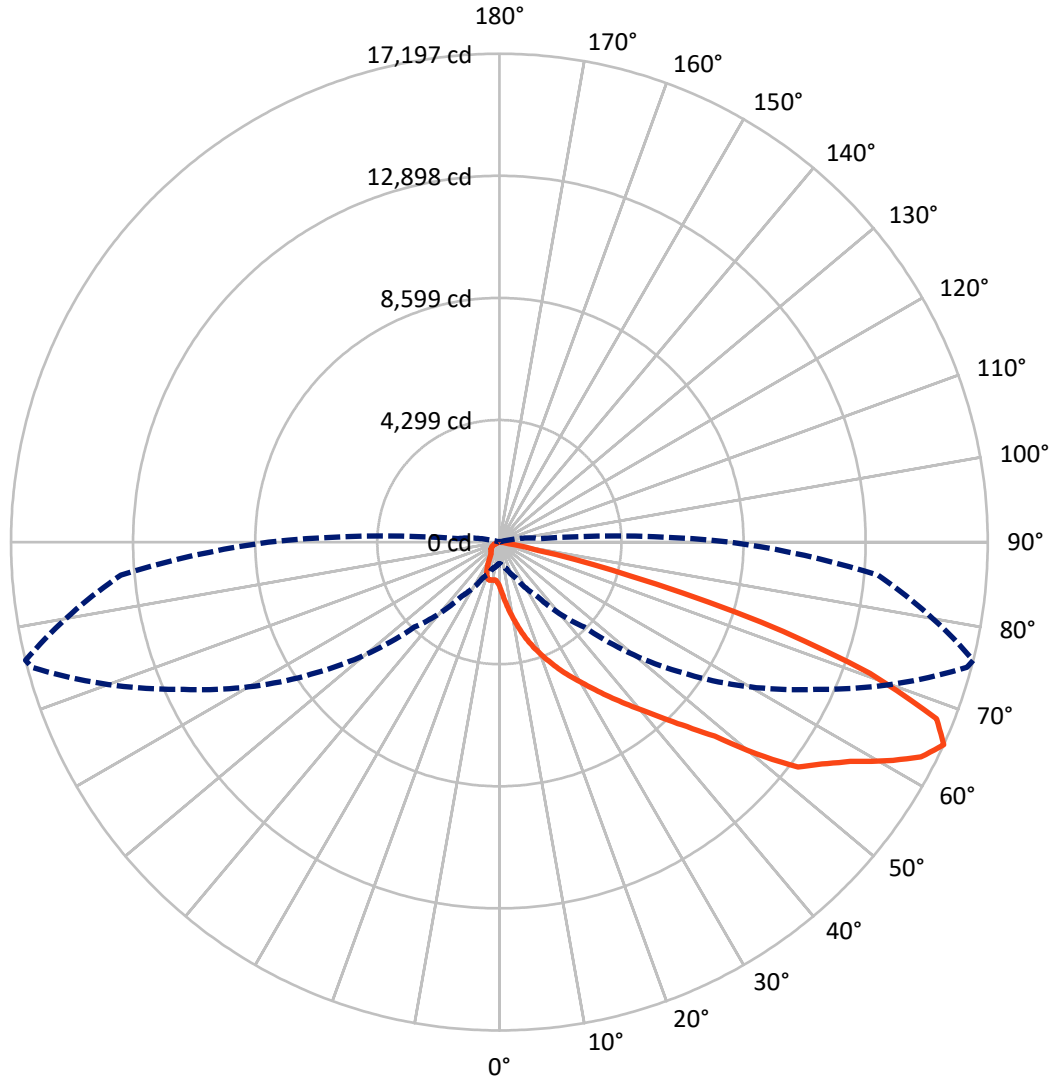
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	980.7	0.0	980.7
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	16755.0	0.0	16755.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	17735.7	0.0	17735.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	1.1
10°-20°	724.9	4.1
20°-30°	1478.8	8.3
30°-40°	2630.1	14.8
40°-50°	3888.0	21.9
50°-60°	4451.4	25.1
60°-70°	3396.2	19.1
70°-80°	951.4	5.4
80°-90°	23.9	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°	17735.7	100.0
0°-180°	17735.7	100.0

Coefficient of Utilization



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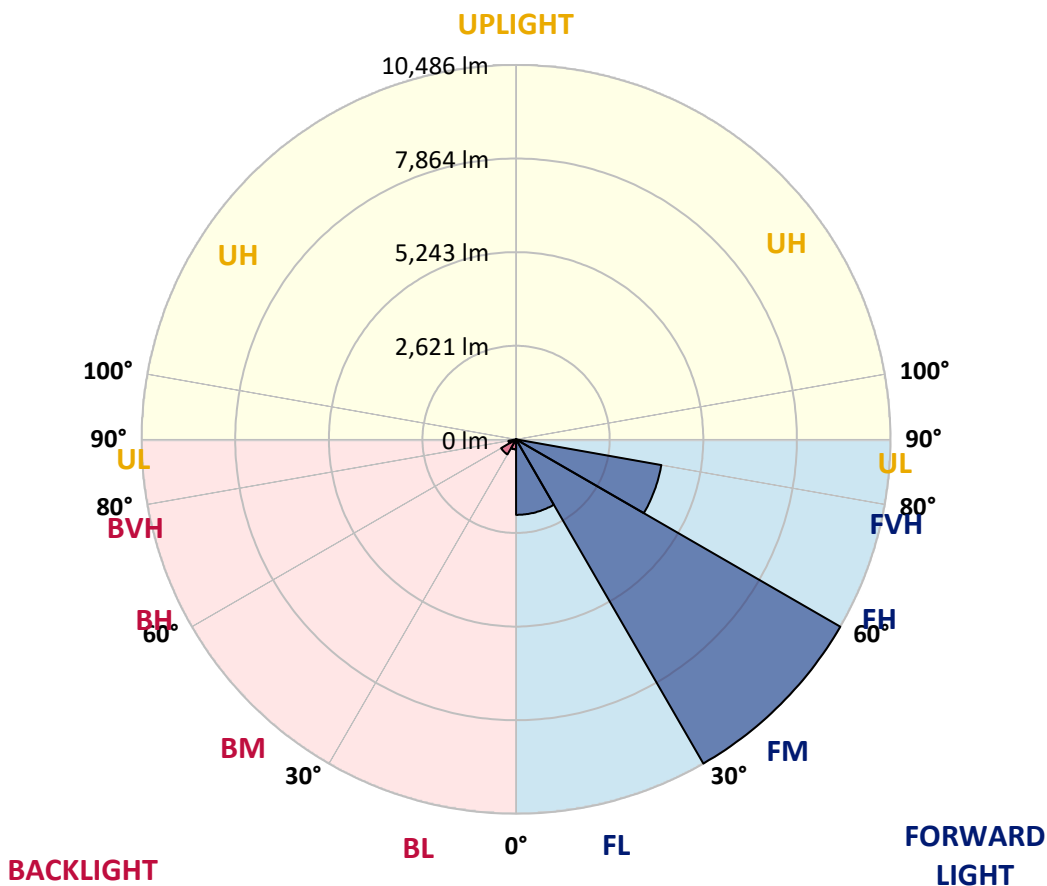
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2114.9	11.9			
FM (30°-60°)	10485.6	59.1			
FH (60°-80°)	4132.0	23.3			G2/5000
FVH (80°-90°)	22.6	0.1			G1/100
BL (0°-30°)	279.8	1.6	B1/500		
BM (30°-60°)	483.9	2.7	B1/1000		
BH (60°-80°)	215.6	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°	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3
2.5°	2420.0	2456.3	2427.9	2380.6	2289.2	2200.9	2087.4	1931.3	1806.7	1791.0	1674.3
5°	3268.2	3265.1	3203.6	3142.1	3045.9	2894.6	2666.0	2375.9	2096.8	2073.2	1811.5
7.5°	3772.7	3777.4	3742.8	3695.5	3600.9	3444.8	3206.7	2856.7	2448.4	2401.1	1999.1
10°	4196.8	4195.2	4170.0	4147.9	4062.8	3958.7	3703.3	3318.7	2826.8	2752.7	2208.8
12.5°	4515.3	4526.3	4538.9	4561.0	4524.7	4422.3	4181.0	3761.7	3209.9	3127.9	2448.4
15°	4767.5	4770.7	4818.0	4903.1	4933.1	4879.5	4660.3	4190.5	3588.3	3517.3	2724.3
17.5°	4843.2	4849.5	4929.9	5086.0	5243.6	5273.6	5108.1	4622.5	3960.3	3884.7	2992.3
20°	5002.4	5016.6	5076.5	5213.7	5412.3	5573.1	5508.5	5059.2	4332.4	4233.1	3266.6
22.5°	5503.8	5511.7	5491.2	5508.5	5611.0	5797.0	5836.4	5481.7	4713.9	4608.3	3563.0
25°	6366.2	6369.3	6225.8	6090.3	6013.0	6047.7	6134.4	5871.1	5092.3	4988.2	3838.9
27.5°	7261.6	7272.7	7100.8	6870.7	6594.8	6437.1	6411.9	6227.4	5473.8	5358.7	4111.7
30°	8105.1	8105.1	7923.8	7643.2	7274.3	6966.8	6785.5	6586.9	5882.2	5756.0	4390.7
32.5°	8863.4	8857.1	8625.4	8321.1	7956.9	7619.5	7238.0	6962.1	6336.2	6195.9	4712.3
35°	9489.3	9473.6	9210.3	8918.6	8529.2	8278.5	7852.9	7365.7	6828.1	6687.8	5043.4
37.5°	9962.3	9945.0	9703.7	9394.7	9033.7	8871.3	8515.0	7849.7	7346.8	7219.1	5410.8
40°	10219.3	10184.6	10017.5	9787.3	9484.6	9342.7	9194.5	8450.4	7956.9	7797.7	5844.3
42.5°	10295.0	10254.0	10143.6	10036.4	9853.5	9741.6	9900.8	9128.3	8627.0	8489.8	6339.4
45°	10071.1	10047.4	10038.0	10115.2	10148.3	10179.9	10572.4	9878.7	9366.4	9262.3	6962.1
47.5°	9531.9	9525.6	9609.1	9930.8	10280.8	10613.4	11302.4	10804.2	10324.9	10213.0	7832.4
50°	8535.5	8600.1	8833.5	9397.9	10097.9	10859.4	11985.0	12087.5	11876.2	11712.3	8967.5
52.5°	6977.9	7102.4	7625.8	8483.5	9489.3	10790.0	12300.3	13115.4	13331.4	13161.1	9781.0
55°	5475.4	5592.1	6058.7	7146.6	8488.2	10261.8	12314.5	13470.2	13941.5	13783.9	10331.2
57.5°	4078.6	4185.8	4609.9	5650.4	7126.1	9222.9	11977.1	13667.2	14665.2	14564.3	11199.9
60°	2666.0	2771.6	3154.7	4064.4	5527.4	7709.4	11146.3	13626.2	15650.5	15641.1	12267.2
62.5°	1478.8	1562.4	1839.8	2549.3	3857.8	5970.4	9840.9	13214.7	16604.4	16664.3	13147.0
65°	756.8	810.4	979.0	1401.6	2334.9	4233.1	8124.0	12272.0	17045.8	17197.1	13378.7
67.5°	495.0	512.4	553.4	728.4	1250.2	2662.8	6113.9	10760.0	16424.6	16601.2	12601.5
70°	402.0	416.2	439.9	485.6	644.8	1414.2	4015.5	8593.8	13724.0	13843.8	10034.8
72.5°	294.8	313.7	359.5	389.4	465.1	775.7	2088.9	5640.9	9424.7	9636.0	6306.3
75°	217.6	228.6	266.4	307.4	380.0	490.3	799.3	2965.5	4866.8	4743.9	2648.6
77.5°	130.9	138.7	170.3	197.1	271.2	305.9	279.1	1095.7	1480.4	1392.1	640.1
80°	64.6	72.5	111.9	148.2	173.4	123.0	116.7	305.9	329.5	329.5	160.8
82.5°	22.1	28.4	59.9	97.7	85.1	47.3	55.2	78.8	88.3	93.0	47.3
85°	0.0	0.0	14.2	28.4	12.6	6.3	14.2	17.3	22.1	23.6	15.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	6.3	6.3
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°	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3
2.5°	1611.2	1537.1	1425.2	1324.3	1247.1	1174.5	1119.4	1075.2	1067.3	1042.1	1045.3
5°	1683.8	1549.8	1343.2	1184.0	1072.1	996.4	933.3	886.0	865.5	845.0	829.3
7.5°	1795.7	1601.8	1311.7	1117.8	986.9	870.3	772.5	693.7	655.9	632.2	616.4
10°	1932.9	1674.3	1313.3	1078.4	884.5	706.3	572.3	485.6	444.6	432.0	430.4
12.5°	2096.8	1765.8	1325.9	1013.7	736.3	525.0	424.1	384.7	372.1	361.0	361.0
15°	2270.3	1868.2	1325.9	895.5	561.3	409.9	367.3	342.1	326.3	320.0	316.9
17.5°	2453.1	1964.4	1294.4	733.1	430.4	361.0	326.3	302.7	290.1	280.6	277.5
20°	2648.6	2055.8	1215.5	561.3	368.9	323.2	290.1	266.4	253.8	244.4	244.4
22.5°	2847.3	2141.0	1087.8	432.0	326.3	286.9	255.4	233.3	220.7	211.3	211.3
25°	3031.7	2197.7	923.9	356.3	294.8	255.4	227.0	205.0	190.8	184.5	181.3
27.5°	3203.6	2234.0	742.6	313.7	264.9	228.6	198.6	178.2	167.1	162.4	159.2
30°	3381.7	2243.4	567.6	285.4	239.6	201.8	173.4	157.7	148.2	141.9	141.9
32.5°	3555.1	2232.4	433.6	261.7	217.6	178.2	154.5	140.3	132.4	127.7	126.1
35°	3731.7	2182.0	351.6	241.2	195.5	156.1	137.2	126.1	121.4	115.1	115.1
37.5°	3924.1	2114.2	305.9	220.7	173.4	140.3	123.0	115.1	108.8	104.1	102.5
40°	4163.7	2035.3	280.6	203.4	152.9	126.1	110.4	102.5	97.7	93.0	91.4
42.5°	4447.5	1958.1	268.0	184.5	137.2	111.9	99.3	89.9	85.1	78.8	77.3
45°	4849.5	1940.7	253.8	164.0	123.0	100.9	86.7	77.3	70.9	66.2	64.6
47.5°	5495.9	1989.6	230.2	141.9	108.8	88.3	74.1	66.2	58.3	53.6	50.5
50°	6137.6	1977.0	206.5	123.0	96.2	75.7	63.1	55.2	47.3	42.6	41.0
52.5°	6487.6	1917.1	184.5	108.8	83.6	64.6	53.6	44.1	39.4	34.7	33.1
55°	6804.4	1893.5	162.4	94.6	70.9	56.8	44.1	36.3	33.1	28.4	26.8
57.5°	7425.6	1948.6	143.5	82.0	61.5	48.9	37.8	30.0	26.8	22.1	20.5
60°	8075.2	1954.9	123.0	70.9	53.6	41.0	30.0	23.6	20.5	15.8	14.2
62.5°	8414.1	1795.7	100.9	59.9	44.1	34.7	25.2	18.9	15.8	9.5	9.5
65°	8130.3	1452.0	85.1	48.9	34.7	26.8	18.9	14.2	9.5	4.7	1.6
67.5°	7195.4	1032.6	70.9	39.4	25.2	18.9	14.2	9.5	1.6	0.0	0.0
70°	5268.9	589.6	55.2	28.4	18.9	12.6	9.5	4.7	0.0	0.0	0.0
72.5°	3238.3	315.3	41.0	18.9	14.2	9.5	7.9	3.2	0.0	0.0	0.0
75°	1228.1	151.4	25.2	12.6	11.0	7.9	4.7	1.6	0.0	0.0	0.0
77.5°	332.7	74.1	14.2	9.5	7.9	4.7	3.2	0.0	0.0	0.0	0.0
80°	86.7	34.7	9.5	6.3	4.7	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	30.0	15.8	4.7	4.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	12.6	6.3	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	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)