

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: P643249

Luminaire Tested: GWS-SA6E-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-750-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38399.6 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

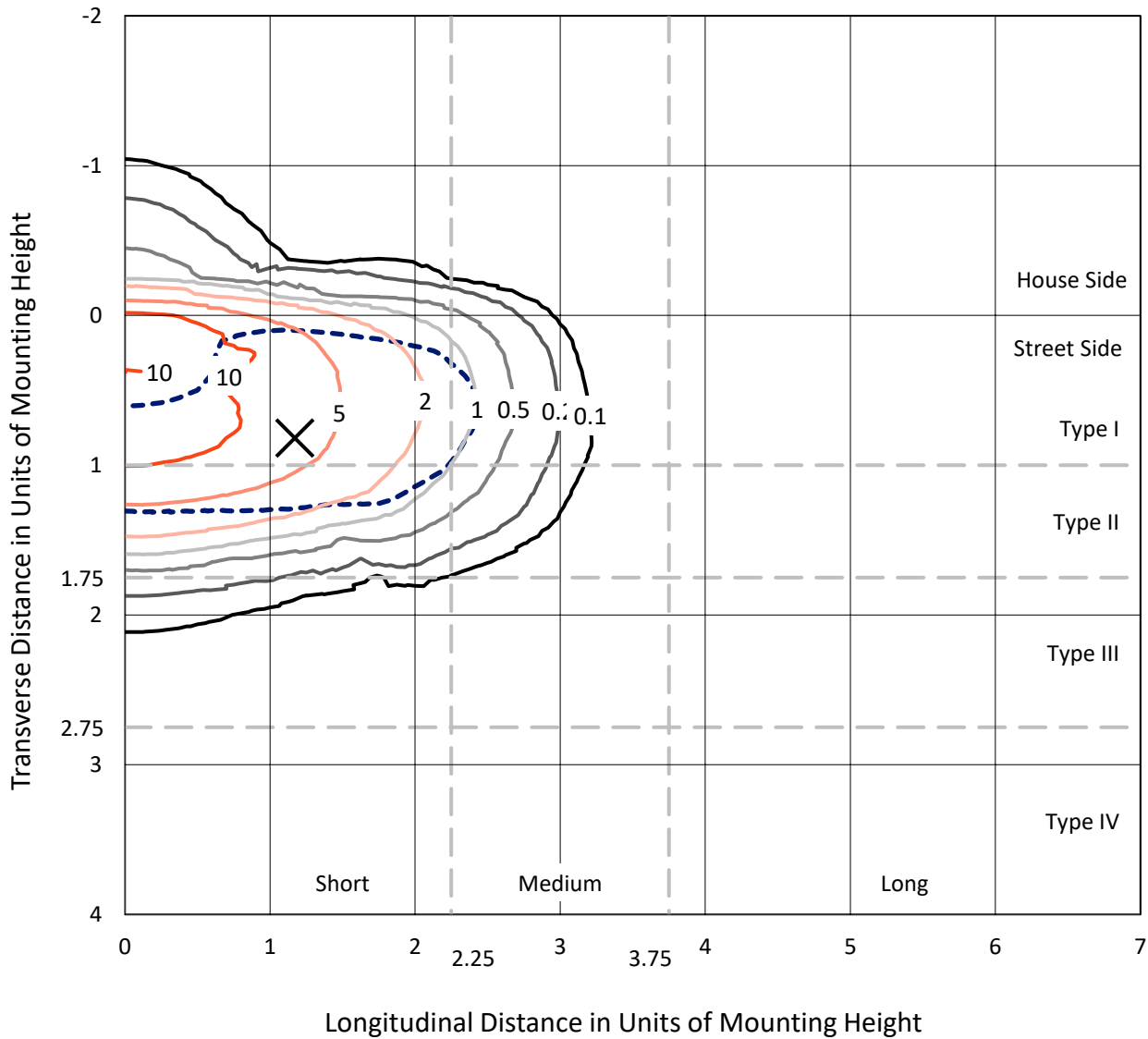
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

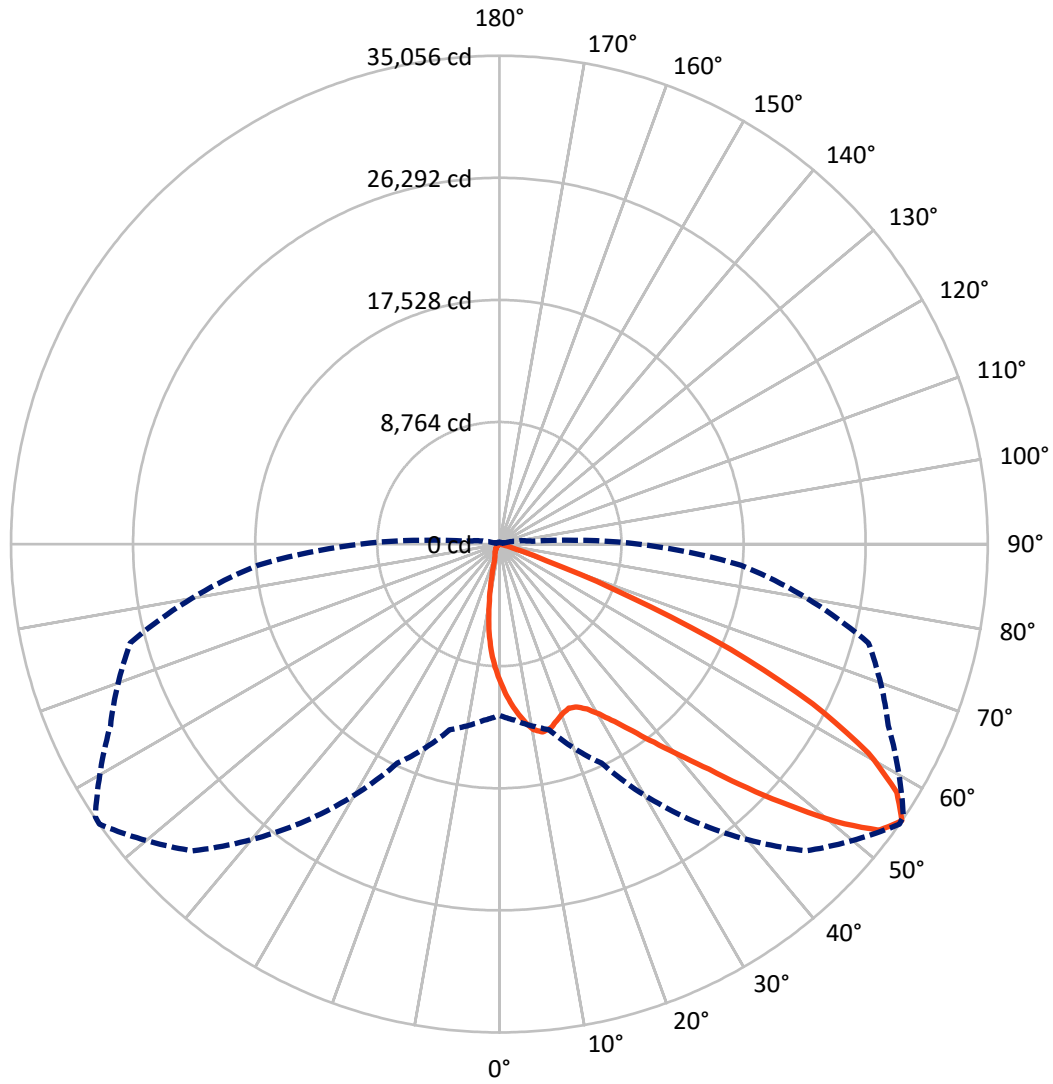
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2369.4	0.0	2369.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	36030.2	0.0	36030.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	38399.6	0.0	38399.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	876.7	2.3
10°-20°	2113.7	5.5
20°-30°	3520.0	9.2
30°-40°	5998.3	15.6
40°-50°	9791.4	25.5
50°-60°	10251.1	26.7
60°-70°	5170.4	13.5
70°-80°	653.1	1.7
80°-90°	24.8	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°	38399.6	100.0
0°-180°	38399.6	100.0

Coefficient of Utilization



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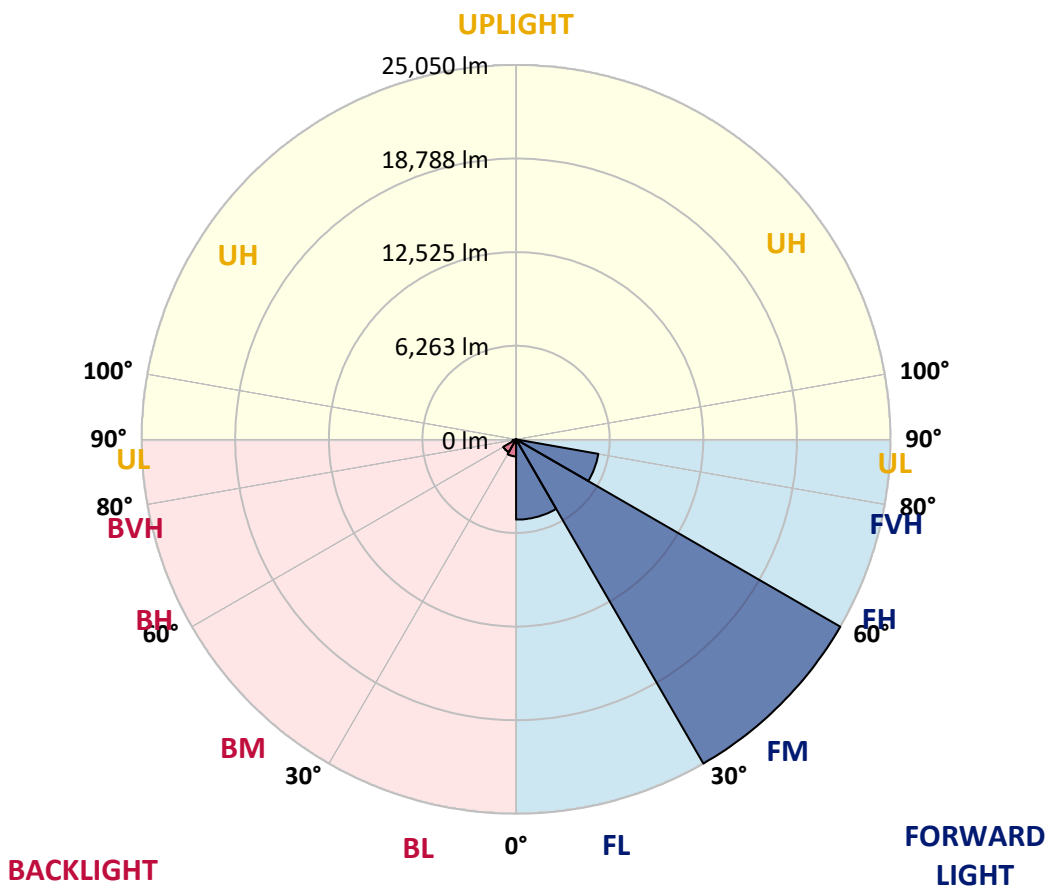
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5371.6	14.0			
FM (30°-60°)	25050.2	65.2			
FH (60°-80°)	5585.9	14.5			G3/7500
FVH (80°-90°)	22.6	0.1			G1/100
BL (0°-30°)	1138.8	3.0	B3/2500		
BM (30°-60°)	990.7	2.6	B1/1000		
BH (60°-80°)	237.7	0.6	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2
2.5°	11564.8	11509.0	11594.4	11495.9	11328.5	11187.3	11003.5	10937.8	10642.4	10363.4	10094.2
5°	12969.8	12986.2	12960.0	12822.1	12585.7	12323.1	11952.2	11870.1	11354.7	10822.9	10248.5
7.5°	13317.8	13307.9	13363.7	13416.2	13376.9	13245.5	12841.8	12759.7	12119.6	11321.9	10484.8
10°	12244.3	12250.9	12365.8	12720.3	13160.2	13616.5	13554.1	13508.2	12881.2	11886.5	10747.4
12.5°	10727.7	10786.8	10908.3	11413.8	12159.0	13196.3	13839.7	13885.7	13580.4	12506.9	11056.0
15°	10071.2	10084.3	10182.8	10488.1	11042.9	12323.1	13718.2	13846.3	14164.7	13130.7	11390.8
17.5°	10054.8	10071.2	10113.9	10248.5	10609.6	11637.0	13327.6	13550.8	14604.6	13800.3	11791.3
20°	10671.9	10662.1	10632.5	10560.3	10717.9	11410.5	12966.5	13212.7	14844.2	14453.6	12195.1
22.5°	11791.3	11778.2	11646.9	11348.2	11220.1	11617.3	12789.3	13012.5	14988.6	15034.6	12526.6
25°	13081.4	13173.3	12927.1	12474.1	12159.0	12145.9	12946.8	13104.4	15113.4	15550.0	12753.1
27.5°	14496.2	14525.8	14315.7	13806.9	13350.6	12992.8	13403.1	13521.3	15251.3	16009.5	12881.2
30°	16048.9	16039.1	15799.5	15208.6	14653.8	14138.4	14171.3	14217.2	15573.0	16534.8	13022.3
32.5°	17989.0	18031.7	17604.9	16800.7	16134.3	15422.0	15175.8	15182.3	16154.0	17211.0	13235.7
35°	20625.0	20519.9	19955.3	18809.7	17673.9	16905.7	16485.5	16449.4	17050.2	18120.3	13606.6
37.5°	23136.2	23146.1	22555.2	21294.6	19860.1	18648.8	18054.6	17956.2	18310.7	19380.8	14223.8
40°	24879.3	24912.1	24665.9	24006.1	22486.2	20772.7	19899.5	19797.7	19945.5	20976.2	15031.3
42.5°	25801.7	25893.6	25962.6	26116.9	24964.7	23425.1	22082.5	22072.6	21918.3	22794.8	15966.9
45°	25837.8	25975.7	26395.9	27449.6	27580.9	26451.7	24990.9	24771.0	24176.8	24741.4	16804.0
47.5°	24409.9	24728.3	25621.2	27709.0	29087.7	29461.9	28014.2	27879.7	26212.1	26281.0	17430.9
50°	21081.3	21412.8	23057.4	26379.5	29468.5	31851.7	31333.0	31054.0	27912.5	27298.6	17732.9
52.5°	17667.3	17969.3	19085.4	23215.0	27889.5	32603.4	34129.8	33798.3	29438.9	27653.2	17608.2
55°	12293.6	12697.3	13787.2	17352.2	24252.3	31139.3	35055.6	34986.6	30801.2	27429.9	17414.5
57.5°	6027.0	6427.5	7514.0	10698.2	17966.0	27187.0	33640.7	34005.1	31615.3	27190.3	17257.0
60°	2517.8	2681.9	3056.2	4694.2	10051.5	20546.2	30446.7	30952.2	31116.4	26865.3	17240.5
62.5°	1460.8	1487.0	1526.4	1946.6	3909.7	11778.2	25256.8	25975.7	28493.5	26435.3	16981.2
65°	1103.0	1112.8	1096.4	1194.9	1615.1	4467.7	18248.3	19226.6	23782.9	24754.6	15957.0
67.5°	906.0	906.0	863.3	883.0	1014.3	1674.2	10074.5	11440.1	17598.4	20345.9	13176.6
70°	722.2	738.6	718.9	692.6	725.5	925.7	3584.7	4444.7	10248.5	12014.5	7684.7
72.5°	548.2	548.2	581.0	561.3	538.4	581.0	1250.7	1405.0	4113.2	5009.3	2773.9
75°	423.5	436.6	459.6	439.9	407.1	344.7	600.7	636.8	1240.8	1165.3	620.4
77.5°	216.7	219.9	292.2	321.7	302.0	210.1	262.6	288.9	403.8	361.1	229.8
80°	131.3	137.9	164.1	252.8	200.2	111.6	108.3	114.9	190.4	164.1	95.2
82.5°	55.8	59.1	91.9	91.9	82.1	42.7	42.7	42.7	91.9	85.3	39.4
85°	0.0	0.0	16.4	13.1	13.1	16.4	16.4	16.4	23.0	32.8	19.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	9.8	9.8
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°	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2	9920.2
2.5°	9920.2	9710.1	9427.8	9171.8	8827.1	8633.4	8364.2	8144.3	7957.2	7898.1	7871.8
5°	9923.5	9562.4	8958.4	8354.4	7612.5	7028.2	6427.5	5951.5	5560.8	5436.1	5403.3
7.5°	9989.1	9457.4	8479.1	7382.7	6141.9	5117.7	4201.8	3381.1	3000.4	2872.3	2846.1
10°	10077.8	9368.7	7924.3	6217.4	4434.9	3118.5	2209.2	1684.0	1434.5	1296.7	1316.3
12.5°	10192.7	9296.5	7310.5	4956.8	2934.7	1713.6	1214.6	1017.6	965.1	938.8	925.7
15°	10347.0	9211.2	6548.9	3706.1	1798.9	1103.0	935.6	883.0	863.3	850.2	846.9
17.5°	10504.5	9112.7	5774.2	2606.4	1194.9	915.9	840.4	814.1	801.0	791.1	787.8
20°	10671.9	8945.3	4864.9	1795.6	942.1	823.9	774.7	745.2	728.8	712.3	709.1
22.5°	10744.2	8676.1	3995.0	1257.3	837.1	758.3	695.9	659.8	640.1	627.0	627.0
25°	10675.2	8239.5	3095.6	955.3	761.6	686.1	623.7	584.3	567.9	554.8	554.8
27.5°	10491.4	7678.1	2258.5	791.1	679.5	610.6	551.5	515.4	502.2	495.7	495.7
30°	10287.9	6969.1	1592.1	679.5	587.6	531.8	482.6	459.6	456.3	449.7	449.7
32.5°	10113.9	6306.0	1096.4	597.4	518.7	462.9	430.0	420.2	423.5	416.9	420.2
35°	10018.7	5656.0	814.1	531.8	462.9	410.3	393.9	393.9	393.9	390.6	390.6
37.5°	10058.1	5015.9	663.1	485.8	413.6	374.2	357.8	364.4	370.9	370.9	370.9
40°	10255.0	4448.0	587.6	443.2	370.9	341.4	328.3	338.1	348.0	354.5	354.5
42.5°	10504.5	3988.4	531.8	407.1	341.4	308.6	302.0	311.9	321.7	328.3	328.3
45°	10662.1	3525.6	476.0	361.1	311.9	272.5	272.5	285.6	282.3	285.6	285.6
47.5°	10734.3	3157.9	420.2	311.9	265.9	236.4	239.6	246.2	239.6	246.2	246.2
50°	10557.0	2787.0	370.9	259.3	219.9	206.8	213.4	210.1	210.1	223.2	223.2
52.5°	10232.1	2511.2	328.3	219.9	187.1	183.8	190.4	177.3	180.5	180.5	177.3
55°	9992.4	2353.7	292.2	190.4	160.9	164.1	160.9	137.9	124.7	111.6	108.3
57.5°	9874.3	2291.3	265.9	170.7	144.4	144.4	131.3	95.2	72.2	55.8	49.2
60°	9848.0	2215.8	239.6	147.7	128.0	121.5	95.2	55.8	36.1	26.3	23.0
62.5°	9598.5	2032.0	216.7	118.2	111.6	98.5	59.1	32.8	19.7	13.1	9.8
65°	8781.1	1670.9	193.7	91.9	85.3	72.2	36.1	19.7	9.8	3.3	0.0
67.5°	6985.5	1185.0	170.7	68.9	59.1	46.0	23.0	13.1	3.3	0.0	0.0
70°	4027.8	640.1	141.2	49.2	39.4	29.5	16.4	6.6	0.0	0.0	0.0
72.5°	1345.9	298.7	108.3	32.8	29.5	23.0	9.8	3.3	0.0	0.0	0.0
75°	295.4	177.3	72.2	23.0	19.7	16.4	6.6	0.0	0.0	0.0	0.0
77.5°	111.6	124.7	36.1	16.4	13.1	9.8	3.3	0.0	0.0	0.0	0.0
80°	42.7	82.1	16.4	9.8	9.8	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	23.0	32.8	9.8	6.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.1	16.4	6.6	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	3.3	3.3	3.3	0.0	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)