

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: P640774

Luminaire Tested: GWS-SA5E-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640774
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-SA5E-750-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32202.8 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

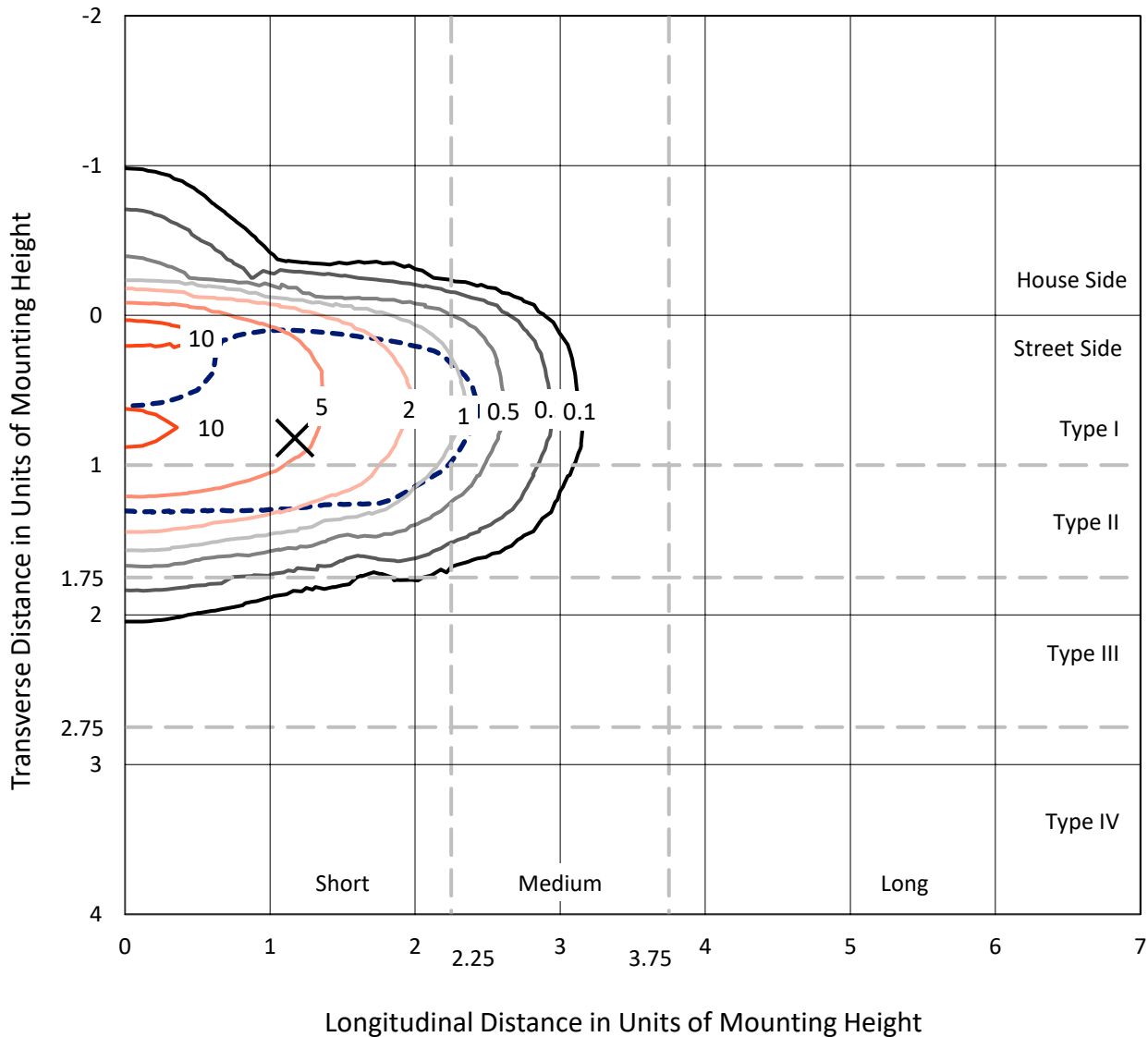
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

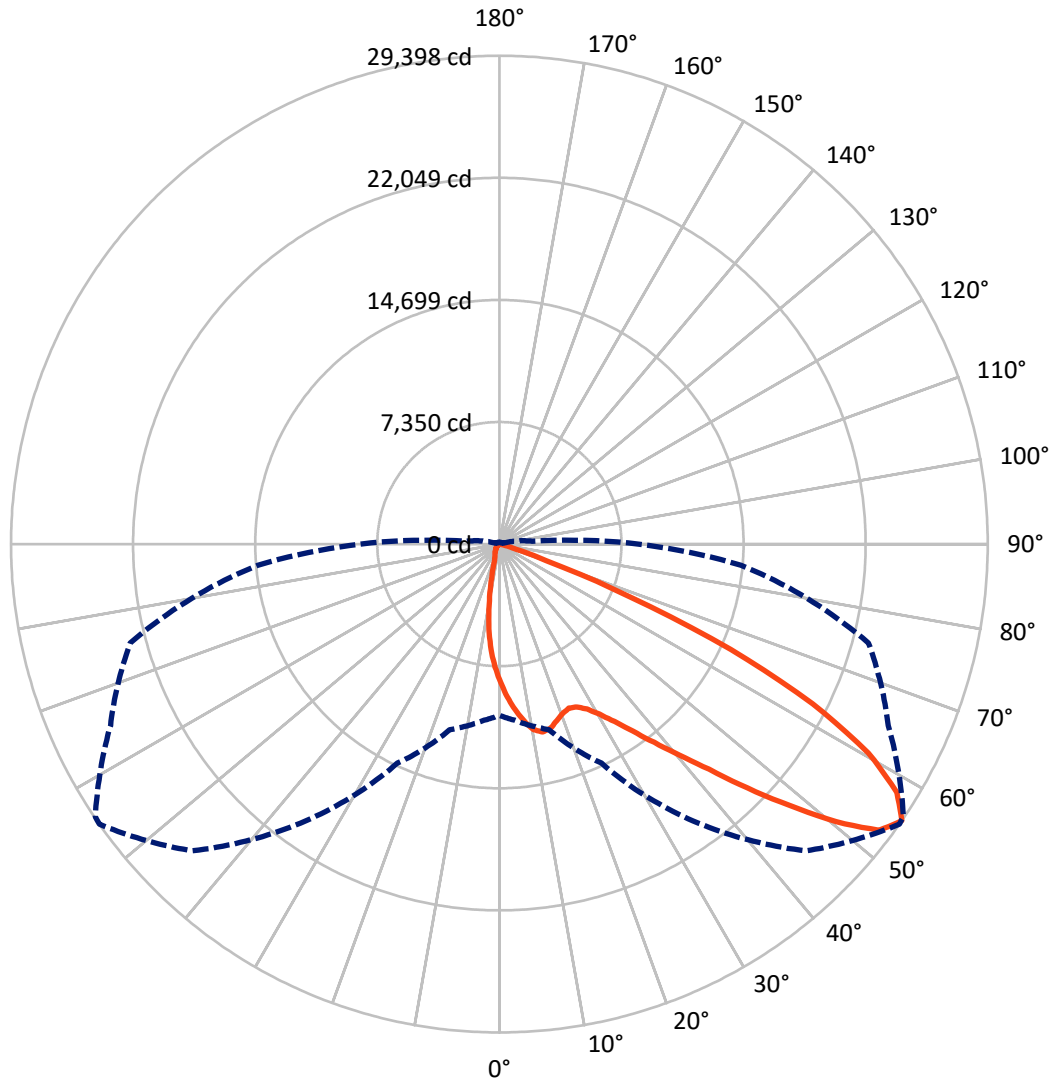
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 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	1987.1	0.0	1987.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	30215.8	0.0	30215.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	32202.8	0.0	32202.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.2	2.3
10°-20°	1772.6	5.5
20°-30°	2952.0	9.2
30°-40°	5030.4	15.6
40°-50°	8211.3	25.5
50°-60°	8596.8	26.7
60°-70°	4336.1	13.5
70°-80°	547.7	1.7
80°-90°	20.8	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°	32202.8	100.0
0°-180°	32202.8	100.0

Coefficient of Utilization



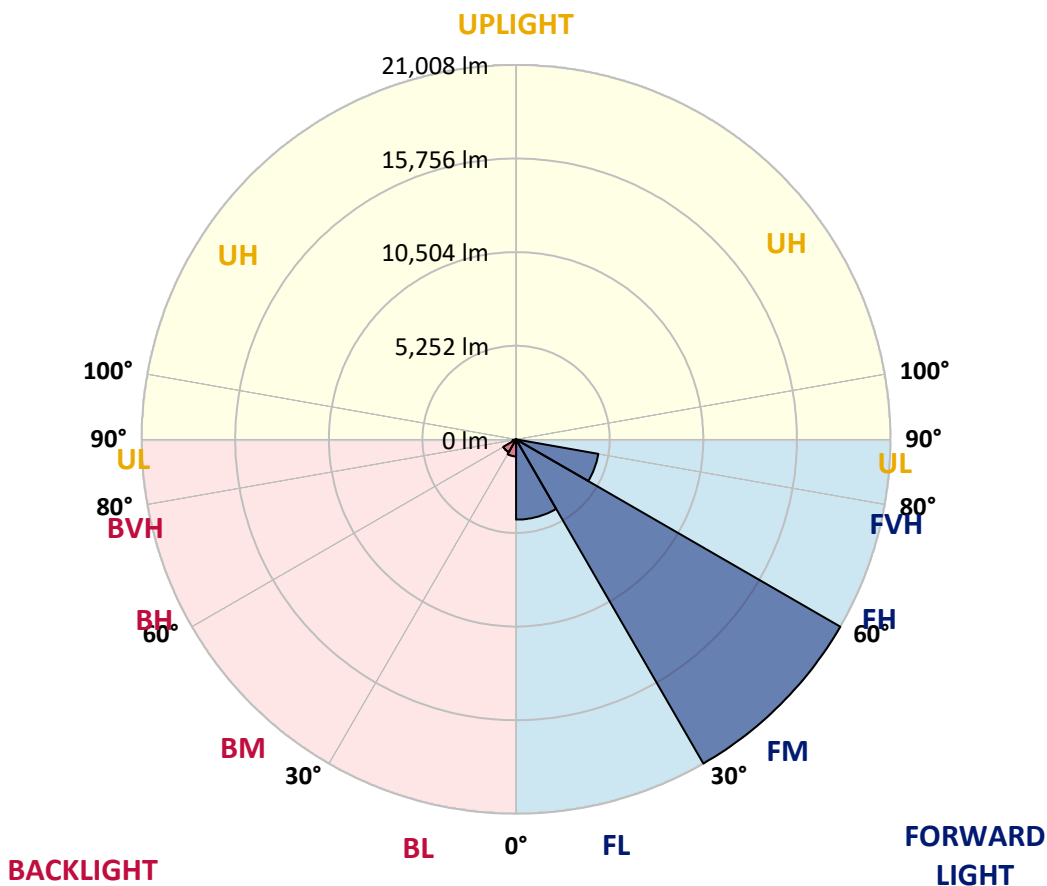
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4504.7	14.0			
FM (30°-60°)	21007.7	65.2			
FH (60°-80°)	4684.4	14.5			G2/5000
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	955.1	3.0	B2/1000		
BM (30°-60°)	830.8	2.6	B1/1000		
BH (60°-80°)	199.3	0.6	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3
2.5°	9698.5	9651.7	9723.3	9640.7	9500.3	9381.9	9227.8	9172.7	8925.0	8691.0	8465.2
5°	10876.8	10890.5	10868.5	10752.9	10554.7	10334.5	10023.4	9954.6	9522.3	9076.4	8594.6
7.5°	11168.6	11160.3	11207.1	11251.2	11218.1	11108.0	10769.4	10700.6	10163.8	9494.8	8792.8
10°	10268.4	10273.9	10370.2	10667.6	11036.4	11419.1	11366.8	11328.3	10802.4	9968.3	9013.1
12.5°	8996.5	9046.1	9147.9	9571.9	10196.8	11066.7	11606.3	11644.8	11388.8	10488.6	9271.8
15°	8446.0	8457.0	8539.6	8795.6	9260.8	10334.5	11504.4	11611.8	11878.8	11011.7	9552.6
17.5°	8432.2	8446.0	8481.7	8594.6	8897.4	9759.1	11176.8	11364.0	12247.7	11573.3	9888.5
20°	8949.7	8941.5	8916.7	8856.1	8988.3	9569.1	10874.0	11080.5	12448.7	12121.1	10227.1
22.5°	9888.5	9877.5	9767.4	9516.8	9409.5	9742.6	10725.4	10912.6	12569.8	12608.4	10505.1
25°	10970.4	11047.5	10841.0	10461.1	10196.8	10185.8	10857.5	10989.6	12674.4	13040.6	10695.1
27.5°	12156.9	12181.7	12005.5	11578.8	11196.1	10896.0	11240.2	11339.3	12790.1	13426.0	10802.4
30°	13459.0	13450.8	13249.8	12754.3	12289.0	11856.8	11884.3	11922.9	13059.8	13866.4	10920.8
32.5°	15086.0	15121.8	14763.9	14089.4	13530.6	12933.2	12726.7	12732.2	13547.1	14433.5	11099.8
35°	17296.6	17208.5	16735.0	15774.2	14821.7	14177.5	13825.2	13794.9	14298.7	15196.1	11410.8
37.5°	19402.6	19410.8	18915.3	17858.2	16655.2	15639.3	15141.0	15058.5	15355.8	16253.2	11928.4
40°	20864.4	20891.9	20685.4	20132.1	18857.5	17420.5	16688.2	16602.8	16726.7	17591.1	12605.6
42.5°	21637.9	21715.0	21772.8	21902.2	20935.9	19644.8	18518.9	18510.6	18381.2	19116.3	13390.2
45°	21668.2	21783.8	22136.2	23019.9	23130.0	22183.0	20958.0	20773.5	20275.2	20748.7	14092.2
47.5°	20470.7	20737.7	21486.5	23237.4	24393.6	24707.4	23493.4	23380.5	21982.0	22039.9	14618.0
50°	17679.2	17957.3	19336.5	22122.4	24712.9	26711.6	26276.6	26042.6	23408.1	22893.3	14871.3
52.5°	14816.2	15069.5	16005.5	19468.6	23388.8	27342.0	28622.1	28344.0	24688.2	23190.6	14766.7
55°	10309.7	10648.3	11562.3	14551.9	20338.6	26114.2	29398.4	29340.6	25830.6	23003.4	14604.2
57.5°	5054.4	5390.2	6301.4	8971.8	15066.7	22799.7	28211.9	28517.5	26513.4	22802.4	14472.1
60°	2111.5	2249.1	2563.0	3936.7	8429.4	17230.5	25533.3	25957.3	26094.9	22529.9	14458.3
62.5°	1225.0	1247.1	1280.1	1632.5	3278.7	9877.5	21180.9	21783.8	23895.3	22169.2	14240.8
65°	925.0	933.2	919.5	1002.1	1354.4	3746.7	15303.5	16123.8	19944.9	20759.8	13381.9
67.5°	759.8	759.8	724.0	740.5	850.7	1404.0	8448.7	9593.9	14758.4	17062.6	11050.2
70°	605.6	619.4	602.9	580.9	608.4	776.3	3006.2	3727.5	8594.6	10075.7	6444.6
72.5°	459.7	459.7	487.3	470.7	451.5	487.3	1048.9	1178.2	3449.4	4201.0	2326.2
75°	355.1	366.1	385.4	368.9	341.4	289.1	503.8	534.1	1040.6	977.3	520.3
77.5°	181.7	184.4	245.0	269.8	253.3	176.2	220.2	242.3	338.6	302.8	192.7
80°	110.1	115.6	137.6	212.0	167.9	93.6	90.8	96.4	159.7	137.6	79.8
82.5°	46.8	49.6	77.1	77.1	68.8	35.8	35.8	35.8	77.1	71.6	33.0
85°	0.0	0.0	13.8	11.0	11.0	13.8	13.8	13.8	19.3	27.5	16.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.3	8.3
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°	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3	8319.3
2.5°	8319.3	8143.1	7906.4	7691.7	7402.6	7240.2	7014.4	6830.0	6673.1	6623.5	6601.5
5°	8322.1	8019.2	7512.7	7006.2	6384.0	5894.0	5390.2	4991.0	4663.4	4558.8	4531.3
7.5°	8377.1	7931.2	7110.8	6191.3	5150.7	4291.8	3523.7	2835.5	2516.2	2408.8	2386.8
10°	8451.5	7856.8	6645.5	5214.0	3719.2	2615.3	1852.7	1412.2	1203.0	1087.4	1103.9
12.5°	8547.8	7796.3	6130.7	4156.9	2461.1	1437.0	1018.6	853.4	809.4	787.3	776.3
15°	8677.2	7724.7	5492.1	3108.0	1508.6	925.0	784.6	740.5	724.0	713.0	710.3
17.5°	8809.3	7642.1	4842.4	2185.8	1002.1	768.1	704.7	682.7	671.7	663.5	660.7
20°	8949.7	7501.7	4079.8	1505.8	790.1	691.0	649.7	624.9	611.1	597.4	594.6
22.5°	9010.3	7276.0	3350.3	1054.4	702.0	635.9	583.6	553.3	536.8	525.8	525.8
25°	8952.5	6909.8	2596.0	801.1	638.7	575.4	523.1	490.0	476.3	465.2	465.2
27.5°	8798.3	6439.1	1894.0	663.5	569.9	512.0	462.5	432.2	421.2	415.7	415.7
30°	8627.6	5844.4	1335.2	569.9	492.8	446.0	404.7	385.4	382.7	377.1	377.1
32.5°	8481.7	5288.4	919.5	501.0	435.0	388.2	360.6	352.4	355.1	349.6	352.4
35°	8401.9	4743.3	682.7	446.0	388.2	344.1	330.4	330.4	330.4	327.6	327.6
37.5°	8434.9	4206.5	556.1	407.4	346.9	313.8	300.1	305.6	311.1	311.1	311.1
40°	8600.1	3730.2	492.8	371.6	311.1	286.3	275.3	283.6	291.8	297.3	297.3
42.5°	8809.3	3344.8	446.0	341.4	286.3	258.8	253.3	261.5	269.8	275.3	275.3
45°	8941.5	2956.6	399.2	302.8	261.5	228.5	228.5	239.5	236.8	239.5	239.5
47.5°	9002.0	2648.3	352.4	261.5	223.0	198.2	201.0	206.5	201.0	206.5	206.5
50°	8853.4	2337.2	311.1	217.5	184.4	173.4	178.9	176.2	176.2	187.2	187.2
52.5°	8580.8	2106.0	275.3	184.4	156.9	154.2	159.7	148.7	151.4	151.4	148.7
55°	8379.9	1973.8	245.0	159.7	134.9	137.6	134.9	115.6	104.6	93.6	90.8
57.5°	8280.8	1921.5	223.0	143.2	121.1	121.1	110.1	79.8	60.6	46.8	41.3
60°	8258.8	1858.2	201.0	123.9	107.4	101.9	79.8	46.8	30.3	22.0	19.3
62.5°	8049.5	1704.1	181.7	99.1	93.6	82.6	49.6	27.5	16.5	11.0	8.3
65°	7364.1	1401.2	162.4	77.1	71.6	60.6	30.3	16.5	8.3	2.8	0.0
67.5°	5858.2	993.8	143.2	57.8	49.6	38.5	19.3	11.0	2.8	0.0	0.0
70°	3377.8	536.8	118.4	41.3	33.0	24.8	13.8	5.5	0.0	0.0	0.0
72.5°	1128.7	250.5	90.8	27.5	24.8	19.3	8.3	2.8	0.0	0.0	0.0
75°	247.8	148.7	60.6	19.3	16.5	13.8	5.5	0.0	0.0	0.0	0.0
77.5°	93.6	104.6	30.3	13.8	11.0	8.3	2.8	0.0	0.0	0.0	0.0
80°	35.8	68.8	13.8	8.3	8.3	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	19.3	27.5	8.3	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	13.8	5.5	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.8	2.8	2.8	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)