

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: P635247

Luminaire Tested: GWS-SA3D-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-735-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

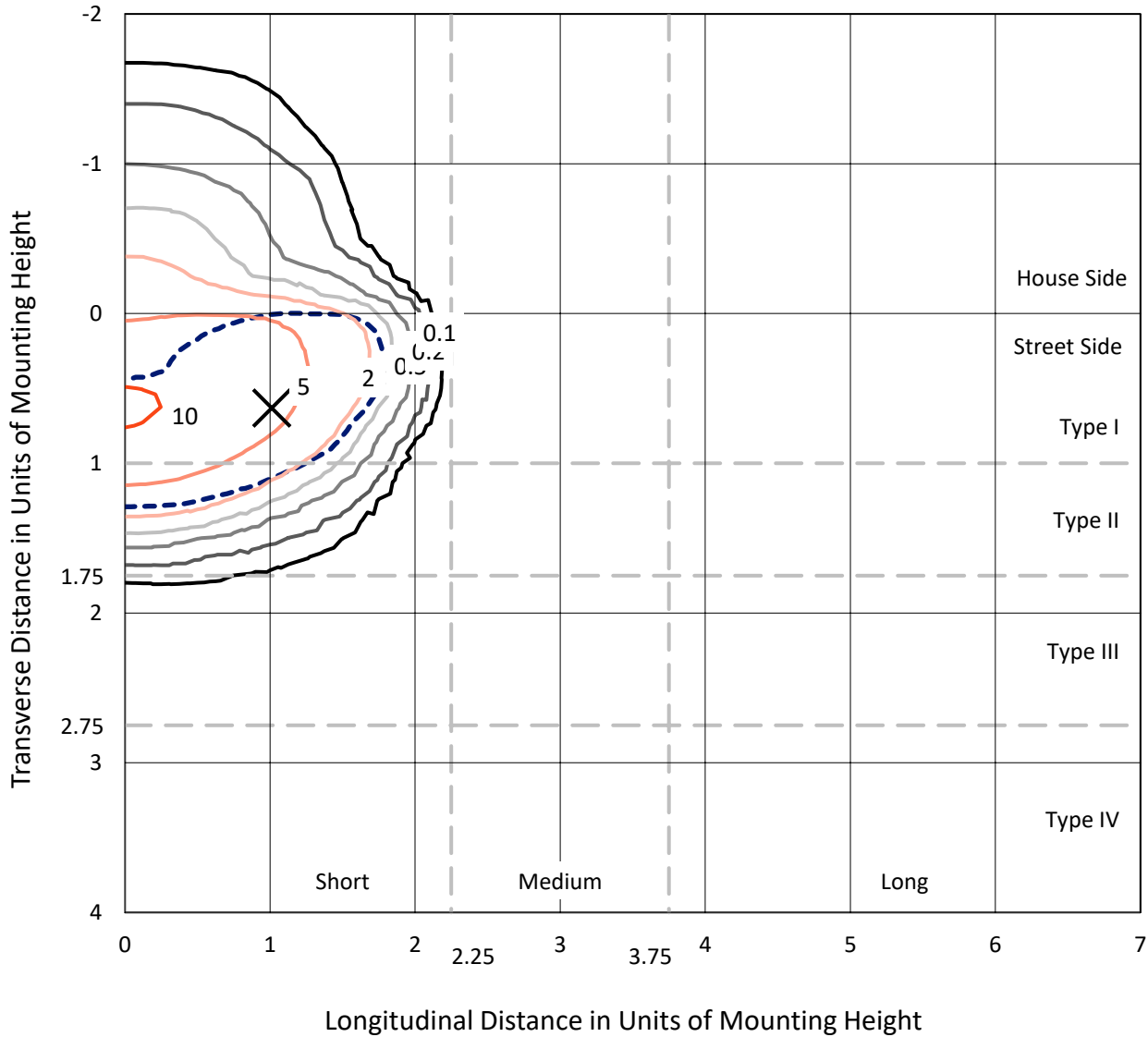
Lumens per Lamp: N/A  
Luminaire Lumens: 11635.2 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

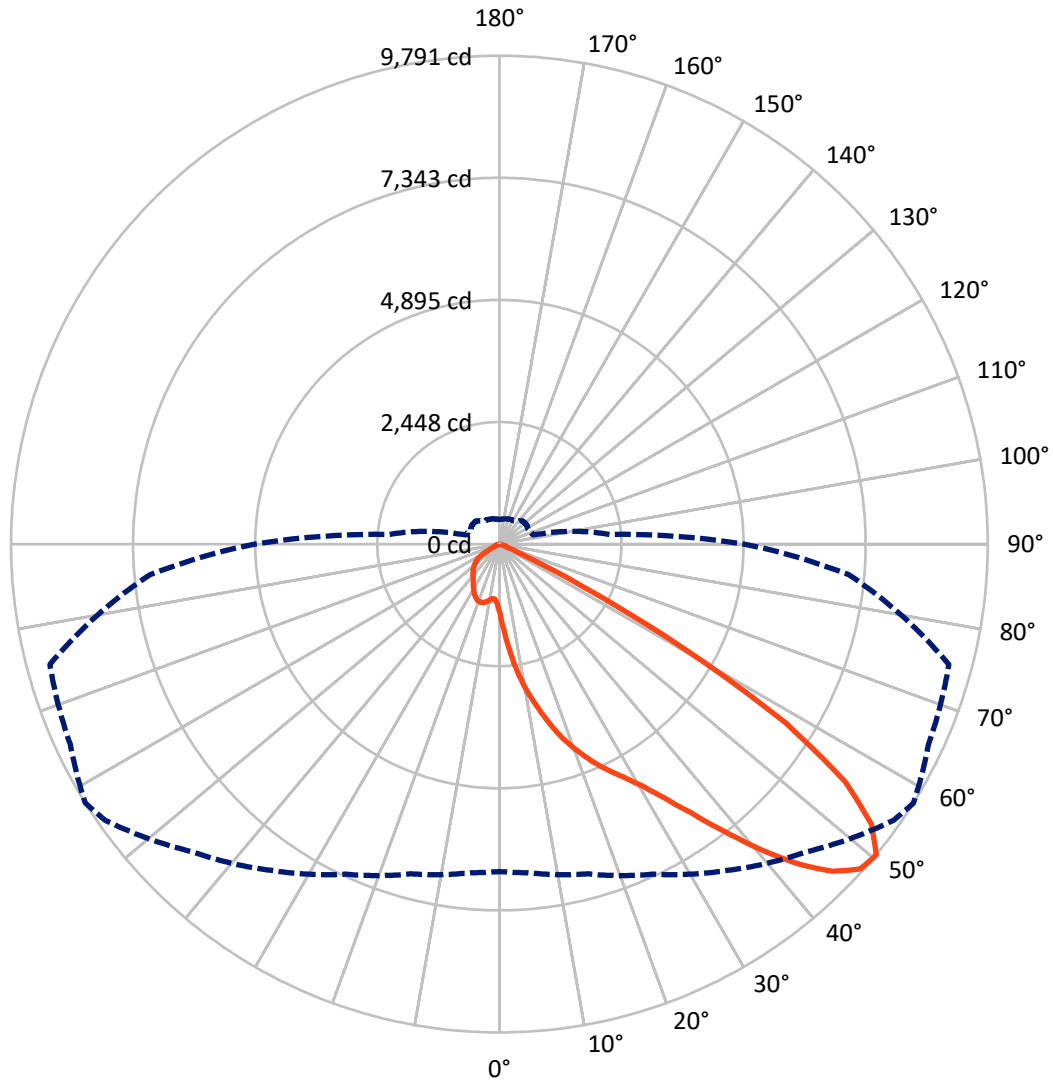
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1629.7	0.0	1629.7
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	10005.5	0.0	10005.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	11635.2	0.0	11635.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.2	1.5
10°-20°	681.6	5.9
20°-30°	1379.2	11.9
30°-40°	2440.0	21.0
40°-50°	3557.0	30.6
50°-60°	2851.0	24.5
60°-70°	513.6	4.4
70°-80°	40.5	0.3
80°-90°	0.0	0.0
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°	11635.2	100.0
0°-180°	11635.2	100.0

**Coefficient of Utilization**



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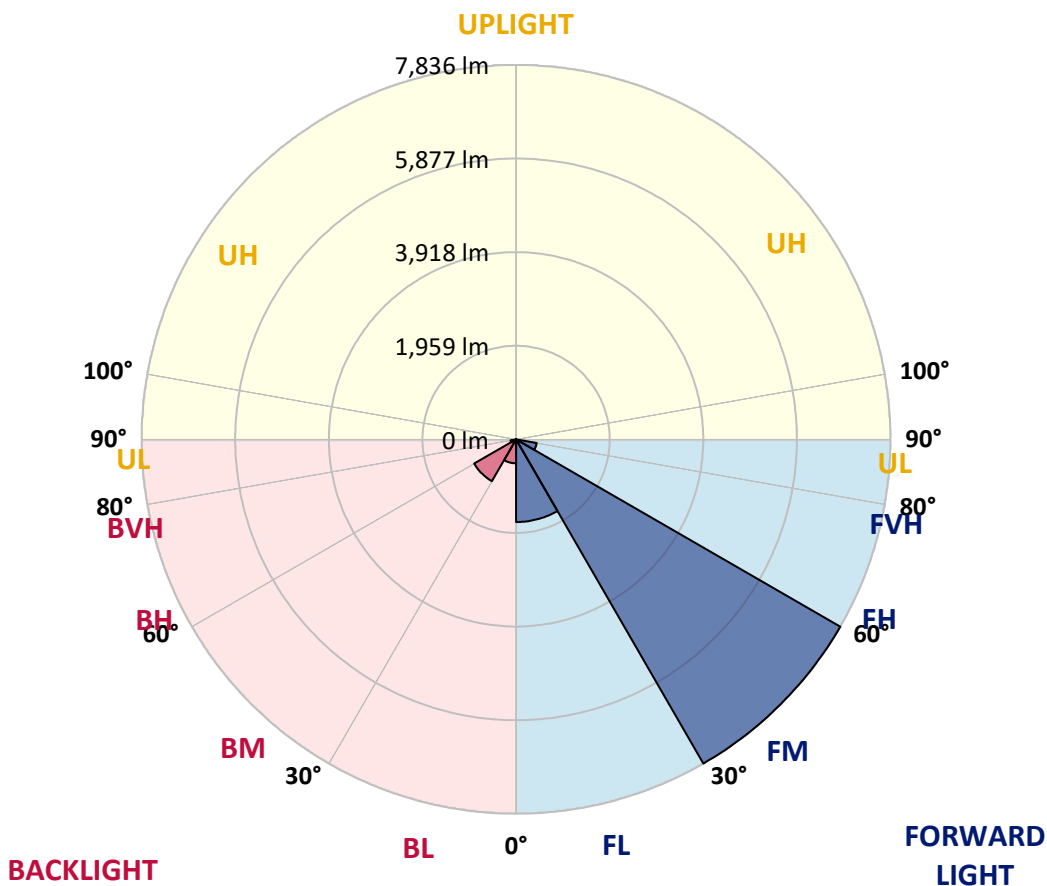
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1731.3	14.9			
FM (30°-60°)	7836.0	67.3			
FH (60°-80°)	438.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	501.7	4.3	B2/1000		
BM (30°-60°)	1012.1	8.7	B2/2500		
BH (60°-80°)	115.8	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	2056.7	2024.4	2005.7	1990.8	1924.8	1820.3	1751.9	1715.8	1656.1	1555.3	1468.2
5°	2683.8	2660.2	2616.6	2586.8	2502.1	2354.1	2201.0	2140.1	2004.5	1776.8	1572.7
7.5°	3099.4	3082.0	3065.8	3026.0	2946.3	2812.0	2642.7	2579.3	2370.3	2046.8	1712.1
10°	3419.1	3405.5	3386.8	3385.5	3323.3	3202.6	3037.2	2971.2	2744.8	2340.4	1876.3
12.5°	3700.3	3689.1	3685.4	3720.2	3680.4	3590.8	3411.7	3329.6	3089.4	2640.3	2058.0
15°	3893.2	3890.7	3906.9	3975.3	3997.7	3956.7	3806.1	3717.8	3441.5	2941.4	2258.3
17.5°	3981.5	3989.0	4020.1	4138.3	4237.8	4272.7	4157.0	4082.3	3791.2	3246.2	2472.3
20°	4132.1	4129.6	4148.3	4260.2	4382.2	4506.6	4471.8	4408.3	4144.5	3568.5	2709.9
22.5°	4556.4	4520.3	4480.5	4497.9	4541.4	4687.0	4751.7	4719.4	4509.1	3899.4	2955.0
25°	5208.3	5171.0	5042.9	4918.4	4836.3	4902.3	4990.6	5006.8	4871.2	4239.1	3211.4
27.5°	5900.1	5866.5	5722.2	5535.6	5300.4	5185.9	5251.9	5284.2	5227.0	4643.5	3483.8
30°	6548.4	6503.6	6345.6	6114.1	5841.7	5666.2	5591.6	5614.0	5647.6	5122.5	3803.6
32.5°	7110.8	7077.2	6888.1	6644.2	6381.7	6198.8	6024.6	6061.9	6144.0	5708.5	4213.0
35°	7587.3	7569.9	7369.6	7126.9	6849.5	6756.2	6606.9	6614.3	6696.4	6416.5	4711.9
37.5°	8001.6	7971.8	7790.1	7564.9	7344.7	7329.8	7288.7	7292.4	7334.7	7241.4	5285.5
40°	8262.9	8235.6	8106.2	7966.8	7810.0	7812.5	8025.3	8041.5	7992.9	8051.4	5891.4
42.5°	8361.2	8341.3	8271.6	8272.9	8256.7	8330.1	8729.5	8759.4	8585.2	8687.2	6409.0
45°	8190.8	8182.1	8187.0	8366.2	8560.3	8786.8	9305.6	9357.9	9111.5	9109.0	6813.4
47.5°	7640.8	7623.4	7769.0	8073.8	8523.0	8963.4	9654.0	9734.9	9479.8	9350.4	7067.2
50°	6563.3	6613.1	6843.3	7301.1	7984.2	8720.8	9650.2	9790.8	9493.5	9329.2	7024.9
52.5°	4754.2	4744.2	5248.2	5877.7	6708.9	7944.4	9137.6	9342.9	9161.3	9121.4	6930.4
55°	2586.8	2677.6	3017.3	3850.9	4888.6	6475.0	7966.8	8414.7	8625.0	9045.6	7100.8
57.5°	950.6	990.4	1203.2	1792.9	2588.0	4026.3	6085.5	6761.1	7410.6	8834.0	7072.2
60°	383.2	390.7	475.3	659.4	1087.5	2049.2	3650.6	4250.3	4862.4	6762.4	5427.3
62.5°	278.7	288.7	322.3	385.7	549.9	895.8	1574.0	1830.3	2000.7	3349.5	2673.8
65°	225.2	232.7	260.0	288.7	363.3	481.5	507.6	489.0	486.5	866.0	613.4
67.5°	186.6	194.1	214.0	233.9	261.3	240.1	174.2	182.9	149.3	148.1	120.7
70°	136.9	145.6	165.5	186.6	156.8	64.7	100.8	149.3	113.2	94.6	92.1
72.5°	103.3	109.5	128.2	121.9	46.0	24.9	67.2	108.2	87.1	69.7	68.4
75°	77.1	80.9	64.7	19.9	5.0	6.2	24.9	44.8	48.5	39.8	39.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.7	5.0	6.2	7.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1418.4	1366.2	1291.5	1229.3	1182.0	1136.0	1101.1	1066.3	1065.1	1047.6	1043.9
5°	1478.1	1383.6	1246.7	1148.4	1088.7	1052.6	1027.7	1015.3	1009.1	1002.8	1000.4
7.5°	1564.0	1428.4	1239.3	1134.7	1085.0	1061.3	1043.9	1036.4	1032.7	1027.7	1026.5
10°	1669.8	1493.1	1266.6	1160.9	1117.3	1094.9	1076.3	1065.1	1058.8	1050.1	1047.6
12.5°	1796.7	1572.7	1310.2	1204.4	1158.4	1128.5	1103.6	1087.5	1078.7	1067.5	1065.1
15°	1933.5	1658.6	1358.7	1244.2	1189.5	1150.9	1119.8	1094.9	1078.7	1065.1	1061.3
17.5°	2075.4	1745.7	1402.2	1271.6	1204.4	1158.4	1113.6	1080.0	1060.1	1042.7	1037.7
20°	2234.6	1835.2	1430.9	1276.6	1199.4	1138.5	1086.2	1043.9	1024.0	1000.4	995.4
22.5°	2401.4	1918.6	1443.3	1265.4	1172.1	1101.1	1045.2	1001.6	973.0	948.1	940.6
25°	2563.1	1993.3	1437.1	1234.3	1131.0	1048.9	991.7	946.9	915.8	890.9	884.6
27.5°	2734.8	2055.5	1414.7	1188.2	1075.0	991.7	936.9	898.3	869.7	842.3	836.1
30°	2927.7	2112.7	1378.6	1132.2	1009.1	933.2	890.9	864.7	833.6	805.0	796.3
32.5°	3160.3	2163.7	1326.3	1065.1	950.6	882.2	858.5	838.6	802.5	772.7	766.4
35°	3426.6	2206.0	1260.4	995.4	893.4	849.8	844.8	818.7	771.4	736.6	729.1
37.5°	3735.2	2247.1	1182.0	927.0	851.1	834.9	836.1	791.3	734.1	691.8	686.8
40°	4067.4	2288.1	1094.9	867.2	812.5	826.2	815.0	751.5	658.2	617.1	612.2
42.5°	4413.3	2332.9	1006.6	811.2	780.1	792.6	776.4	671.9	604.7	583.5	581.1
45°	4725.6	2386.4	910.8	755.2	747.8	744.0	716.7	608.4	579.8	564.9	563.6
47.5°	4950.8	2377.7	808.7	701.7	712.9	700.5	617.1	578.6	554.9	535.0	530.0
50°	4909.7	2225.9	703.0	642.0	668.2	657.0	554.9	543.7	522.6	501.4	494.0
52.5°	4805.2	2019.4	610.9	578.6	619.6	593.5	512.6	501.4	482.8	455.4	446.7
55°	4861.2	1825.3	538.8	527.6	569.9	491.5	465.3	447.9	428.0	398.2	394.4
57.5°	4680.8	1489.3	433.0	440.5	503.9	419.3	408.1	380.7	347.1	327.2	324.7
60°	3240.0	800.0	271.2	280.0	364.6	352.1	365.8	340.9	299.9	281.2	277.5
62.5°	1488.1	321.0	148.1	141.8	191.6	238.9	313.5	311.1	260.0	230.2	227.7
65°	360.8	146.8	105.8	99.5	108.2	143.1	204.1	245.1	210.3	175.4	171.7
67.5°	117.0	119.4	97.0	90.8	95.8	107.0	121.9	135.6	134.4	123.2	120.7
70°	93.3	108.2	89.6	82.1	82.1	85.9	82.1	65.9	57.2	62.2	64.7
72.5°	69.7	82.1	70.9	63.5	61.0	59.7	51.0	37.3	26.1	23.6	22.4
75°	41.1	46.0	43.5	37.3	34.8	31.1	24.9	16.2	8.7	6.2	3.7
77.5°	7.5	8.7	10.0	7.5	6.2	5.0	3.7	1.2	0.0	0.0	0.0
80°	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)