

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: P636372

Luminaire Tested: GWS-SA3F-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18578.7 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

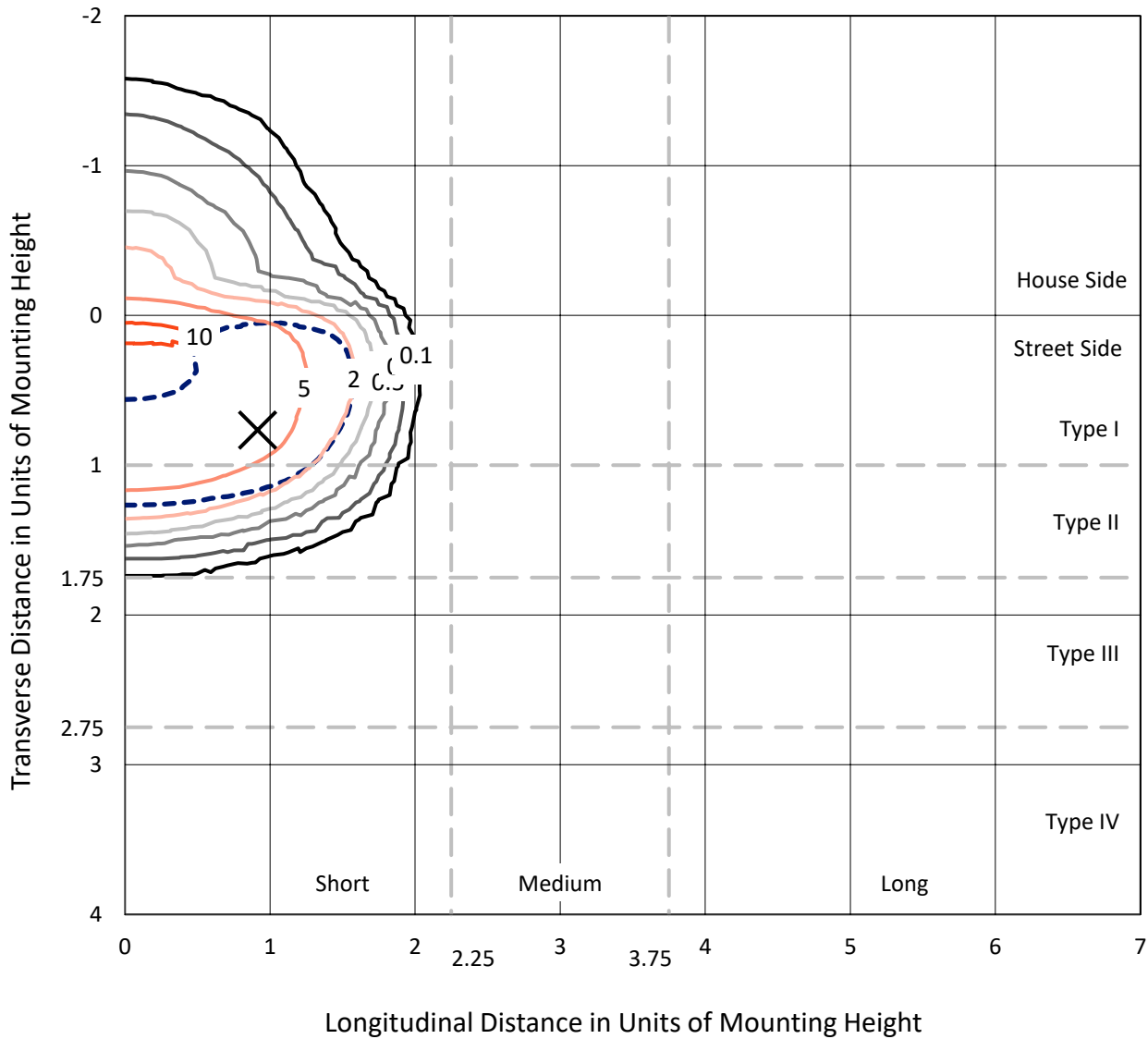
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

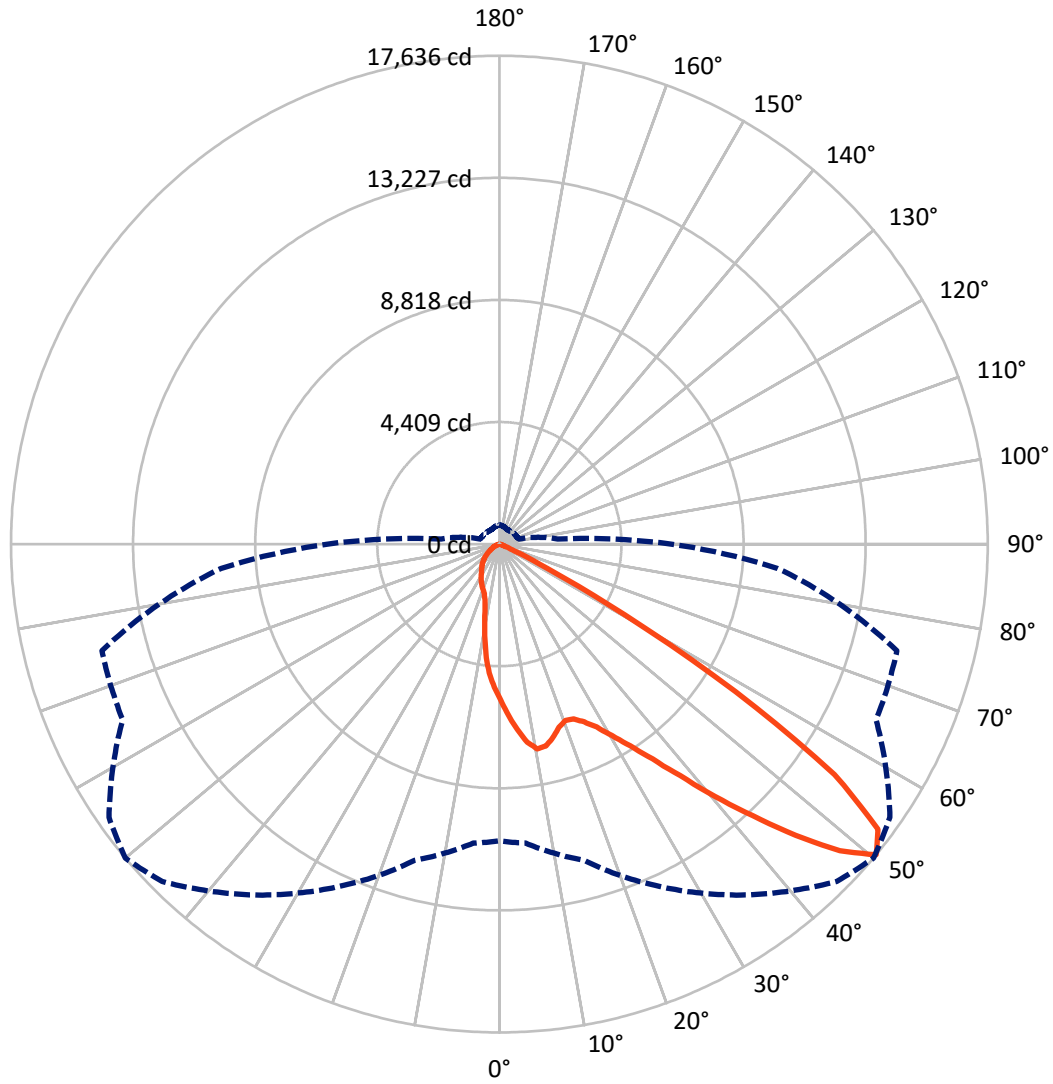
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.1	0.0	2387.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	16191.6	0.0	16191.6
	% Fixture	87.2	0.0	87.2
Total	Lumens	18578.7	0.0	18578.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.1	2.8
10°-20°	1347.2	7.3
20°-30°	2223.3	12.0
30°-40°	3668.9	19.7
40°-50°	5805.1	31.2
50°-60°	4395.1	23.7
60°-70°	550.1	3.0
70°-80°	62.2	0.3
80°-90°	4.8	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°	18578.7	100.0
0°-180°	18578.7	100.0

Coefficient of Utilization



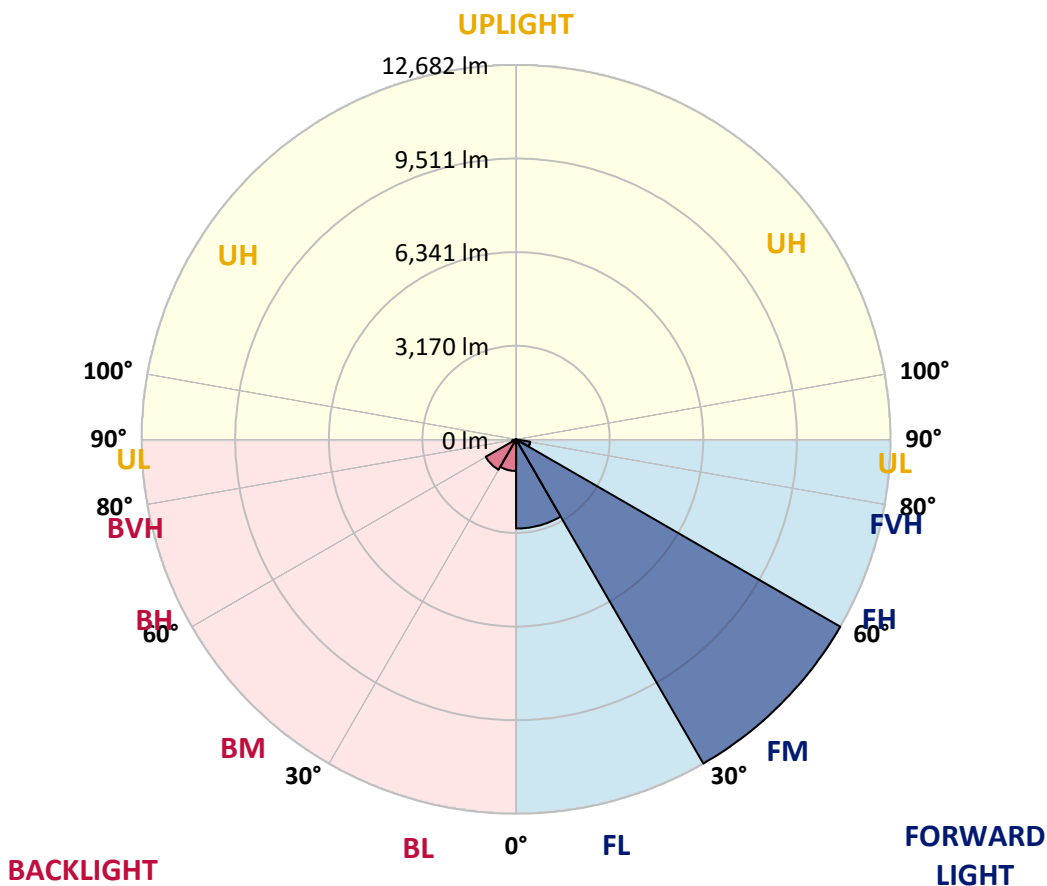
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3021.2	16.3			
FM (30°-60°)	12681.9	68.3			
FH (60°-80°)	486.3	2.6			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1071.4	5.8	B3/2500		
BM (30°-60°)	1187.1	6.4	B2/2500		
BH (60°-80°)	126.0	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6
2.5°	6413.7	6465.0	6450.9	6383.7	6311.2	6259.9	6180.3	6155.6	5975.2	5849.6	5717.0
5°	7188.3	7204.2	7186.5	7105.2	6977.8	6855.8	6725.0	6648.9	6346.6	6074.2	5796.6
7.5°	7374.0	7354.5	7388.1	7428.8	7411.1	7358.0	7220.1	7137.0	6776.3	6332.4	5911.5
10°	6793.9	6749.7	6875.3	7085.7	7306.8	7556.1	7520.7	7527.8	7195.4	6657.8	6061.8
12.5°	6024.7	6007.0	6100.8	6344.8	6778.0	7343.9	7480.1	7708.2	7579.1	7009.7	6233.4
15°	5687.0	5695.8	5752.4	5906.2	6217.5	6921.3	7248.4	7660.4	7922.1	7351.0	6422.6
17.5°	5738.2	5770.1	5768.3	5819.6	6008.8	6572.9	6954.9	7510.1	8187.4	7743.5	6640.1
20°	6086.6	6118.4	6070.7	6031.8	6095.4	6484.5	6801.0	7358.0	8366.0	8139.6	6870.0
22.5°	6608.3	6645.4	6532.2	6420.8	6380.1	6629.5	6859.4	7296.1	8502.2	8502.2	7075.1
25°	7239.6	7290.8	7115.8	6917.7	6804.5	6935.4	7108.7	7435.8	8641.8	8827.5	7214.8
27.5°	7945.1	7946.9	7796.6	7573.8	7361.6	7377.5	7481.8	7750.6	8795.7	9177.7	7324.4
30°	8739.1	8744.4	8544.6	8277.6	8010.6	7938.1	8026.5	8229.8	9115.8	9618.0	7476.5
32.5°	9764.7	9789.5	9503.0	9110.5	8763.9	8627.7	8679.0	8893.0	9625.0	10169.7	7704.6
35°	11151.1	11177.6	10755.0	10236.9	9685.2	9480.0	9531.3	9747.1	10362.4	10953.1	8068.9
37.5°	12519.8	12555.2	12127.2	11644.5	10887.6	10548.1	10601.2	10806.3	11469.4	12035.3	8652.5
40°	13465.9	13513.6	13381.0	13055.6	12353.6	11908.0	11971.6	12045.9	12687.8	13329.7	9409.3
42.5°	13964.5	14031.7	14088.3	14254.5	13885.0	13511.8	13404.0	13409.3	13927.4	14648.9	10196.2
45°	13994.6	14060.0	14350.0	14991.9	15273.1	15195.3	14999.0	14866.4	14873.5	15527.7	10687.8
47.5°	13022.0	13144.0	13686.9	14944.2	16001.7	16647.1	16548.1	16233.3	15271.3	15586.1	10634.8
50°	10717.9	10838.1	11824.9	13633.9	15471.2	17227.1	17635.6	17213.0	15011.4	14859.3	10088.3
52.5°	7784.2	7796.6	8436.7	10549.9	13320.9	16157.3	17119.2	17078.6	14615.3	13978.7	9342.1
55°	3697.6	3653.4	4373.1	5954.0	9213.0	13068.0	14689.6	15149.3	14053.0	13342.1	8763.9
57.5°	1076.9	1098.1	1418.2	2323.6	4608.3	8351.8	10060.1	10915.9	11534.8	10969.0	6797.5
60°	482.8	484.5	539.3	707.3	1534.9	3885.0	5200.7	6259.9	6896.5	6390.8	3372.2
62.5°	350.1	351.9	373.1	399.6	521.7	1315.6	1950.5	2599.5	2647.2	1733.0	854.1
65°	291.8	291.8	295.3	295.3	313.0	470.4	592.4	763.9	643.7	477.5	334.2
67.5°	235.2	237.0	240.5	240.5	235.2	235.2	254.6	279.4	298.8	369.6	307.7
70°	183.9	182.1	182.1	183.9	178.6	152.1	164.5	187.4	205.1	288.2	267.0
72.5°	143.2	145.0	143.2	136.2	123.8	90.2	97.3	122.0	130.9	180.4	180.4
75°	107.9	109.6	102.6	77.8	51.3	28.3	37.1	60.1	76.0	88.4	65.4
77.5°	14.1	14.1	10.6	10.6	8.8	10.6	10.6	14.1	21.2	21.2	15.9
80°	1.8	1.8	1.8	3.5	5.3	7.1	7.1	7.1	7.1	8.8	8.8
82.5°	1.8	1.8	1.8	1.8	5.3	5.3	7.1	7.1	7.1	7.1	7.1
85°	0.0	0.0	0.0	1.8	3.5	5.3	5.3	7.1	7.1	7.1	7.1
87.5°	0.0	0.0	0.0	1.8	3.5	5.3	5.3	5.3	7.1	7.1	7.1
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°	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6	5628.6
2.5°	5637.4	5534.9	5411.1	5326.2	5206.0	5126.4	5013.2	4937.2	4871.8	4820.5	4848.8
5°	5639.2	5476.5	5223.7	5007.9	4772.7	4557.0	4325.3	4143.2	3978.8	3904.5	3945.2
7.5°	5674.6	5441.2	5053.9	4670.2	4219.2	3773.6	3356.3	3016.8	2848.8	2769.2	2794.0
10°	5743.5	5425.2	4864.7	4228.1	3496.0	2887.7	2482.7	2252.9	2159.1	2109.6	2118.5
12.5°	5807.2	5414.6	4618.9	3646.3	2758.6	2240.5	2030.0	1998.2	2017.7	2019.4	2017.7
15°	5893.9	5395.2	4314.7	3048.6	2206.9	1936.3	1941.6	1987.6	2033.6	2047.7	2044.2
17.5°	5985.8	5365.1	3922.2	2475.7	1872.7	1847.9	1909.8	1971.7	2017.7	2024.7	2026.5
20°	6081.3	5303.2	3474.8	2021.2	1717.1	1780.7	1849.7	1895.7	1929.3	1939.9	1943.4
22.5°	6125.5	5172.4	2958.4	1695.8	1612.7	1697.6	1748.9	1809.0	1819.6	1780.7	1787.8
25°	6102.5	4951.3	2454.4	1476.6	1508.4	1593.3	1669.3	1639.2	1595.0	1566.7	1575.6
27.5°	6030.0	4657.8	1961.1	1315.6	1397.0	1504.9	1513.7	1480.1	1473.0	1450.0	1457.1
30°	5952.2	4320.0	1577.4	1186.6	1283.8	1397.0	1370.5	1382.8	1384.6	1358.1	1366.9
32.5°	5904.5	3966.4	1255.5	1099.9	1211.3	1232.5	1285.6	1310.3	1312.1	1250.2	1260.8
35°	5920.4	3618.0	1062.8	1029.2	1144.1	1138.8	1213.1	1227.2	1124.7	1039.8	1048.6
37.5°	6049.5	3296.2	953.1	974.4	1027.4	1068.1	1124.7	1030.9	1008.0	969.0	974.4
40°	6290.0	3022.1	887.7	940.8	947.8	1013.3	926.6	939.0	940.8	916.0	921.3
42.5°	6571.1	2794.0	848.8	921.3	903.6	914.2	827.6	852.3	878.9	868.3	870.0
45°	6712.6	2571.2	815.2	854.1	859.4	758.6	739.2	765.7	799.3	804.6	806.4
47.5°	6587.0	2359.0	779.8	756.8	792.2	691.4	668.4	677.3	716.2	737.4	740.9
50°	6203.3	2114.9	726.8	670.2	650.7	620.7	599.5	601.2	645.4	682.6	689.7
52.5°	5664.0	1860.3	640.1	567.6	523.4	546.4	551.7	541.1	581.8	618.9	626.0
55°	5140.5	1542.0	507.5	461.5	420.9	470.4	484.5	470.4	482.8	507.5	509.3
57.5°	3619.8	871.8	389.0	382.0	348.4	403.2	426.2	404.9	383.7	399.6	403.2
60°	1678.1	456.2	298.8	298.8	290.0	346.6	385.5	355.4	314.8	321.8	327.1
62.5°	525.2	288.2	219.3	206.9	237.0	295.3	327.1	297.1	249.3	249.3	256.4
65°	297.1	247.6	173.3	159.2	192.7	237.0	256.4	224.6	182.1	178.6	178.6
67.5°	275.9	235.2	153.8	129.1	136.2	152.1	159.2	137.9	125.6	123.8	125.6
70°	228.1	196.3	123.8	88.4	83.1	81.3	84.9	79.6	76.0	77.8	83.1
72.5°	141.5	118.5	77.8	53.1	46.0	44.2	44.2	44.2	42.4	42.4	42.4
75°	51.3	44.2	35.4	26.5	23.0	21.2	21.2	23.0	21.2	19.5	17.7
77.5°	15.9	14.1	14.1	14.1	12.4	10.6	8.8	8.8	7.1	5.3	5.3
80°	8.8	8.8	8.8	8.8	7.1	7.1	5.3	3.5	1.8	1.8	0.0
82.5°	8.8	8.8	8.8	7.1	7.1	7.1	5.3	3.5	1.8	0.0	0.0
85°	7.1	7.1	7.1	7.1	7.1	7.1	5.3	3.5	1.8	0.0	0.0
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	5.3	3.5	1.8	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)