

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: P639321

Luminaire Tested: GWS-SA5B-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11215.7 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

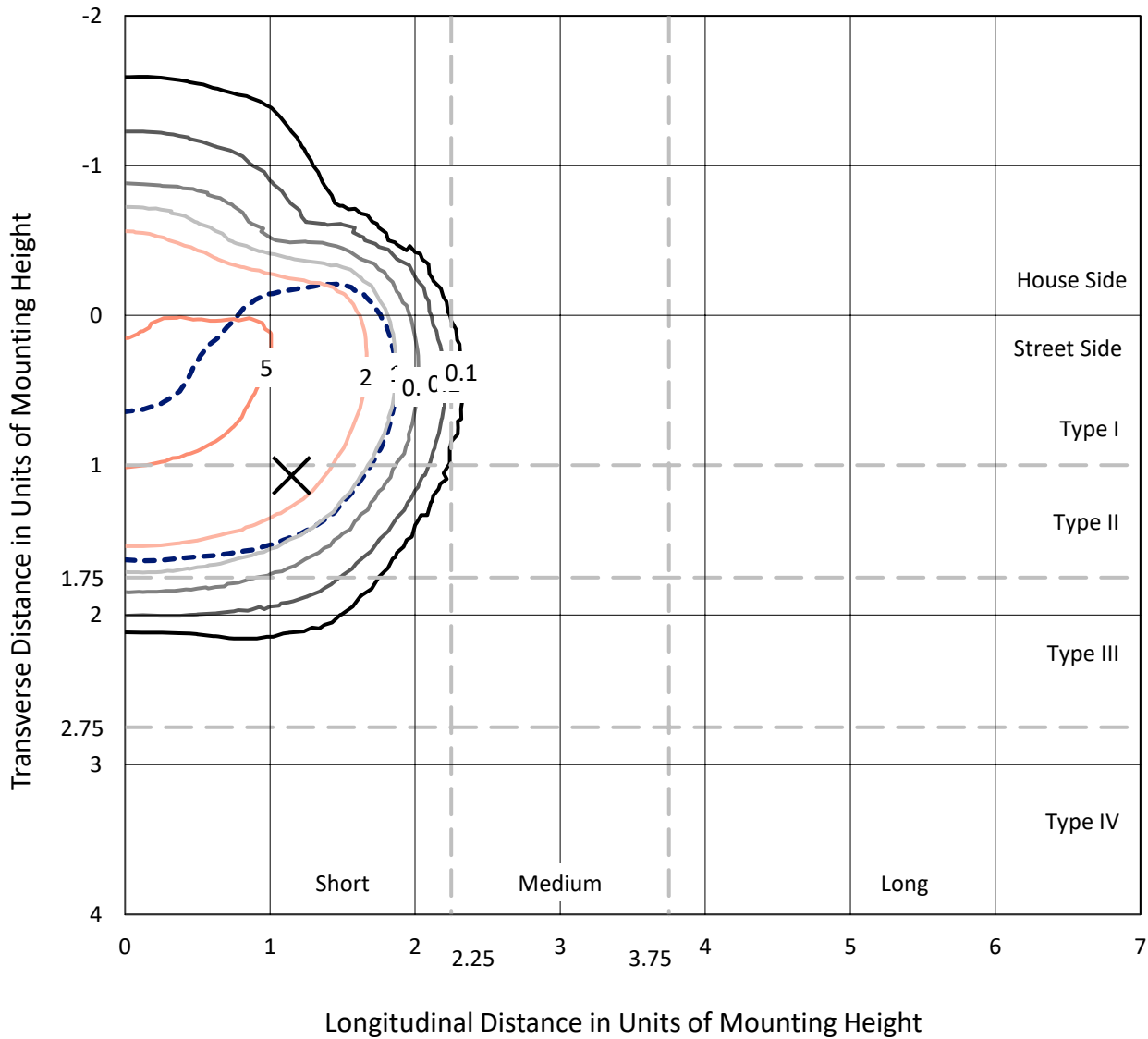
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

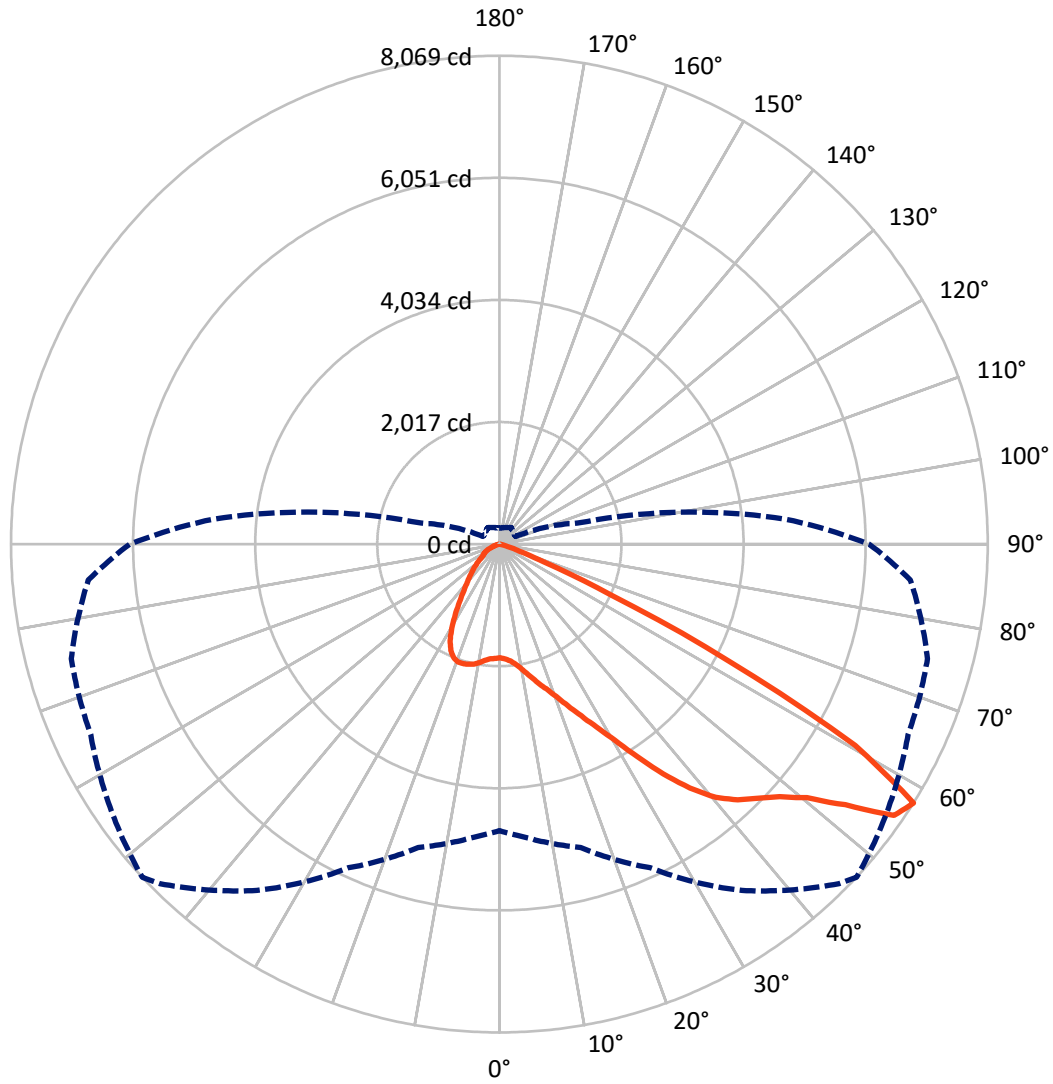
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2433.2	0.0	2433.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8782.5	0.0	8782.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	11215.7	0.0	11215.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.7
10°-20°	630.3	5.6
20°-30°	1170.3	10.4
30°-40°	1873.4	16.7
40°-50°	2738.5	24.4
50°-60°	3379.8	30.1
60°-70°	1129.3	10.1
70°-80°	105.2	0.9
80°-90°	2.2	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°	11215.7	100.0
0°-180°	11215.7	100.0

Coefficient of Utilization



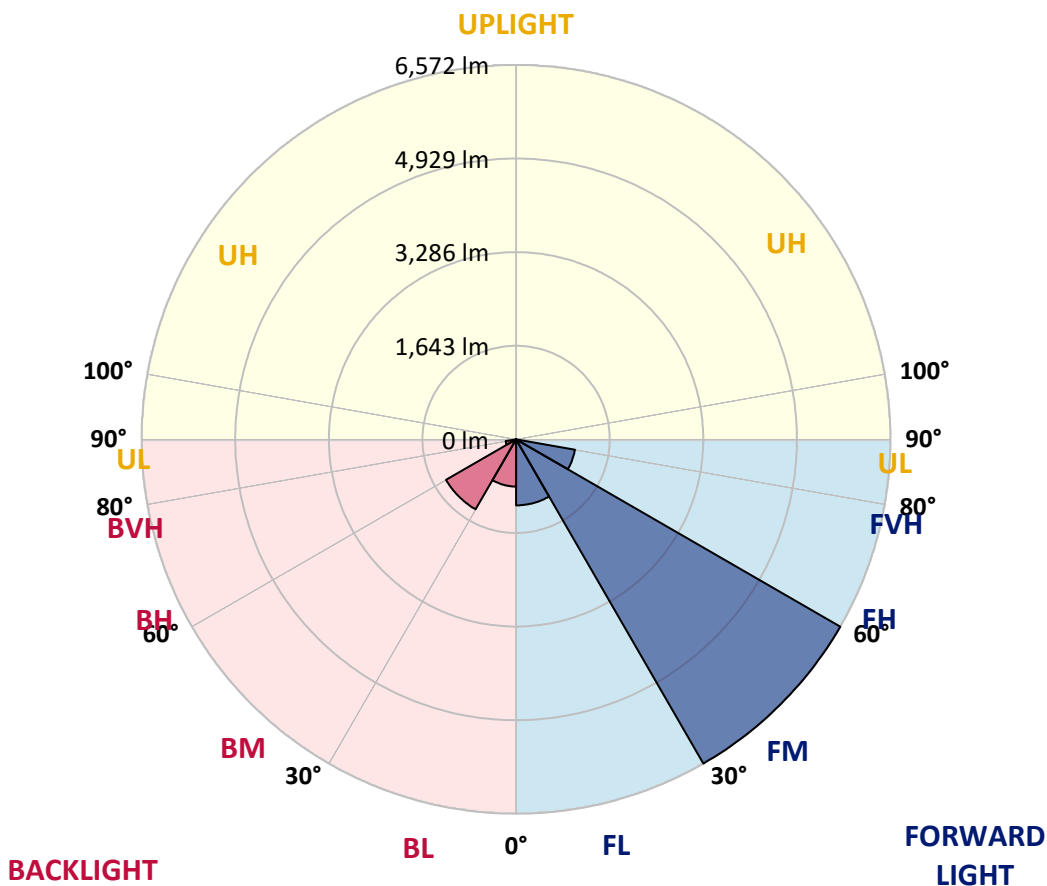
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.1	10.3			
FM (30°-60°)	6572.3	58.6			
FH (60°-80°)	1049.6	9.4			G1/1800
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	828.2	7.4	B2/1000		
BM (30°-60°)	1419.3	12.7	B2/2500		
BH (60°-80°)	185.0	1.6	B1/500		G1/500
BVH (80°-90°)	0.7	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°	47°	55°	65°	75°	85°
0°	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5
2.5°	1897.1	1895.7	1894.4	1902.3	1899.7	1898.4	1901.0	1901.0	1901.0	1893.1	1877.5
5°	1942.6	1942.6	1941.3	1949.1	1942.6	1938.7	1940.0	1940.0	1934.8	1920.5	1901.0
7.5°	2014.2	2011.6	2009.0	2016.8	2010.3	2009.0	2011.6	2003.8	1994.7	1971.3	1943.9
10°	2117.1	2117.1	2113.2	2121.0	2115.8	2113.2	2113.2	2108.0	2091.1	2054.6	2014.2
12.5°	2259.0	2252.5	2243.4	2236.9	2234.3	2233.0	2234.3	2226.5	2208.2	2161.4	2105.4
15°	2414.0	2408.7	2394.4	2384.0	2369.7	2367.1	2374.9	2368.4	2350.2	2286.4	2206.9
17.5°	2609.3	2615.8	2579.3	2557.2	2515.5	2512.9	2515.5	2525.9	2512.9	2430.9	2315.0
20°	2775.9	2781.1	2753.8	2738.2	2700.4	2683.5	2688.7	2705.6	2691.3	2594.9	2433.5
22.5°	2954.3	2960.8	2932.2	2899.6	2882.7	2882.7	2902.2	2925.7	2906.1	2779.8	2568.9
25°	3167.8	3173.0	3149.6	3106.6	3076.7	3114.4	3143.1	3205.6	3173.0	3001.2	2729.0
27.5°	3412.6	3413.9	3380.1	3335.8	3320.2	3390.5	3419.1	3515.5	3502.4	3249.9	2898.3
30°	3674.3	3675.6	3667.8	3637.9	3623.5	3716.0	3755.0	3894.4	3885.2	3558.4	3128.8
32.5°	3946.4	3946.4	3960.8	3958.2	3975.1	4126.1	4188.6	4347.5	4338.3	3936.0	3415.2
35°	4219.9	4221.2	4245.9	4308.4	4378.7	4579.2	4661.2	4853.9	4833.1	4387.8	3781.1
37.5°	4531.0	4518.0	4551.9	4645.6	4801.9	5033.6	5111.8	5295.3	5271.9	4850.0	4258.9
40°	4906.0	4882.6	4882.6	4992.0	5169.0	5436.0	5502.4	5593.5	5514.1	5223.7	4727.7
42.5°	5320.1	5297.9	5269.3	5365.6	5514.1	5722.4	5777.1	5752.3	5687.2	5576.6	5261.5
45°	5739.3	5705.5	5725.0	5783.6	5869.5	5968.5	5989.3	5874.7	5844.8	5876.0	5702.9
47.5°	6058.3	6034.9	6083.1	6165.1	6235.4	6249.7	6235.4	6076.6	6073.9	6184.6	6008.8
50°	6165.1	6167.7	6300.5	6480.2	6593.5	6605.2	6585.6	6403.4	6378.6	6411.2	6174.2
52.5°	6175.5	6185.9	6379.9	6722.4	7030.9	7171.6	7155.9	6959.3	6717.1	6682.0	6424.2
55°	5924.2	5985.4	6256.2	6756.2	7412.4	7861.6	7913.7	7537.4	7178.1	7148.1	6961.9
57.5°	4735.5	4860.5	5187.3	5899.5	6986.7	7933.2	8068.6	7797.8	7450.2	7322.6	6817.4
60°	2830.6	2985.5	3299.3	4173.0	5317.5	6520.5	6753.6	6791.4	6631.2	6262.7	5230.2
62.5°	1214.8	1201.8	1588.5	2257.7	3162.6	4144.3	4249.8	4413.9	4553.2	4167.8	3174.3
65°	416.6	453.1	630.2	1018.2	1583.3	1924.4	2018.1	2165.3	2363.2	1950.4	1162.7
67.5°	257.8	273.4	363.3	601.5	854.1	841.1	799.4	776.0	755.2	516.9	319.0
70°	187.5	200.5	255.2	414.0	574.2	403.6	350.2	283.8	315.1	290.4	226.6
72.5°	126.3	136.7	175.8	251.3	294.3	196.6	182.3	207.0	250.0	238.3	184.9
75°	75.5	82.0	100.3	122.4	119.8	101.6	102.9	145.8	191.4	178.4	131.5
77.5°	52.1	54.7	66.4	79.4	58.6	31.2	28.6	40.4	65.1	65.1	44.3
80°	13.0	16.9	16.9	10.4	9.1	7.8	7.8	11.7	18.2	13.0	6.5
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
85°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
87.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
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°	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5	1877.5
2.5°	1886.6	1871.0	1881.4	1878.8	1886.6	1889.2	1877.5	1874.9	1876.2	1860.6	1855.4
5°	1904.9	1886.6	1891.8	1886.6	1895.7	1903.6	1899.7	1904.9	1911.4	1899.7	1894.4
7.5°	1943.9	1925.7	1924.4	1916.6	1929.6	1934.8	1933.5	1947.8	1960.8	1953.0	1945.2
10°	2011.6	1986.9	1984.3	1977.8	1981.7	1985.6	1971.3	1973.9	1985.6	1976.5	1972.6
12.5°	2095.0	2065.0	2058.5	2042.9	2042.9	2023.3	1992.1	1985.6	1994.7	1988.2	1981.7
15°	2184.8	2144.4	2134.0	2106.7	2080.6	2044.2	2011.6	2003.8	2010.3	2002.5	1997.3
17.5°	2285.1	2239.5	2205.6	2157.5	2100.2	2057.2	2020.7	2003.8	1993.4	1977.8	1976.5
20°	2384.0	2324.1	2266.8	2190.0	2114.5	2049.4	1989.5	1945.2	1907.5	1884.0	1874.9
22.5°	2498.6	2410.0	2317.6	2209.5	2101.5	2002.5	1897.1	1821.5	1756.4	1734.3	1723.9
25°	2621.0	2506.4	2368.4	2227.8	2057.2	1898.4	1755.1	1643.2	1557.2	1528.6	1516.9
27.5°	2756.4	2598.8	2420.5	2223.9	1966.1	1749.9	1559.8	1420.5	1335.9	1309.8	1319.0
30°	2928.3	2718.6	2485.6	2183.5	1829.3	1541.6	1319.0	1201.8	1138.0	1113.2	1114.5
32.5°	3157.4	2890.5	2580.6	2097.6	1653.6	1304.6	1109.3	1023.4	980.4	947.9	945.3
35°	3485.5	3152.2	2669.2	1959.5	1440.0	1093.7	951.8	884.1	824.2	786.4	792.9
37.5°	3878.7	3481.6	2717.3	1773.4	1200.5	929.6	833.3	764.3	696.6	640.6	647.1
40°	4344.9	3912.6	2713.4	1528.6	981.7	817.7	734.3	653.6	569.0	518.2	523.4
42.5°	4864.4	4320.1	2628.8	1269.5	813.8	726.5	639.3	537.7	455.7	424.5	425.8
45°	5314.9	4650.8	2480.4	1001.3	684.9	638.0	540.3	436.2	399.7	377.6	376.3
47.5°	5648.2	4893.0	2268.1	787.7	580.7	557.3	444.0	390.6	362.0	343.7	341.1
50°	5834.4	4977.6	2033.8	617.2	490.9	472.6	397.1	354.2	334.6	322.9	320.3
52.5°	6084.4	5079.2	1865.8	487.0	411.4	386.7	365.9	329.4	316.4	307.3	303.4
55°	6480.2	5275.8	1720.0	386.7	342.4	337.2	345.0	315.1	307.3	293.0	287.7
57.5°	6107.8	4739.4	1335.9	299.5	289.0	308.6	333.3	300.8	281.2	268.2	263.0
60°	4298.0	3150.9	671.8	240.9	257.8	289.0	313.8	272.1	252.6	255.2	252.6
62.5°	2369.7	1576.8	302.1	201.8	223.9	255.2	268.2	235.7	222.6	244.8	248.7
65°	774.7	536.4	174.5	156.2	177.1	208.3	231.8	223.9	221.3	247.4	255.2
67.5°	238.3	177.1	118.5	112.0	122.4	153.6	195.3	242.2	260.4	268.2	272.1
70°	178.4	139.3	101.6	95.0	100.3	117.2	165.4	201.8	190.1	191.4	188.8
72.5°	143.2	110.7	87.2	83.3	83.3	80.7	87.2	109.4	123.7	130.2	130.2
75°	100.3	78.1	66.4	61.2	48.2	39.1	35.2	35.2	31.2	29.9	28.6
77.5°	33.9	28.6	26.0	20.8	14.3	11.7	10.4	9.1	6.5	3.9	2.6
80°	5.2	3.9	2.6	2.6	2.6	1.3	1.3	1.3	0.0	0.0	0.0
82.5°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	0.0	0.0	0.0	0.0
85°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	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)