

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: P636398

Luminaire Tested: GWS-SA3F-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-760-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 14652.9 lumens
Efficiency: N/A
Efficacy: 80.0 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

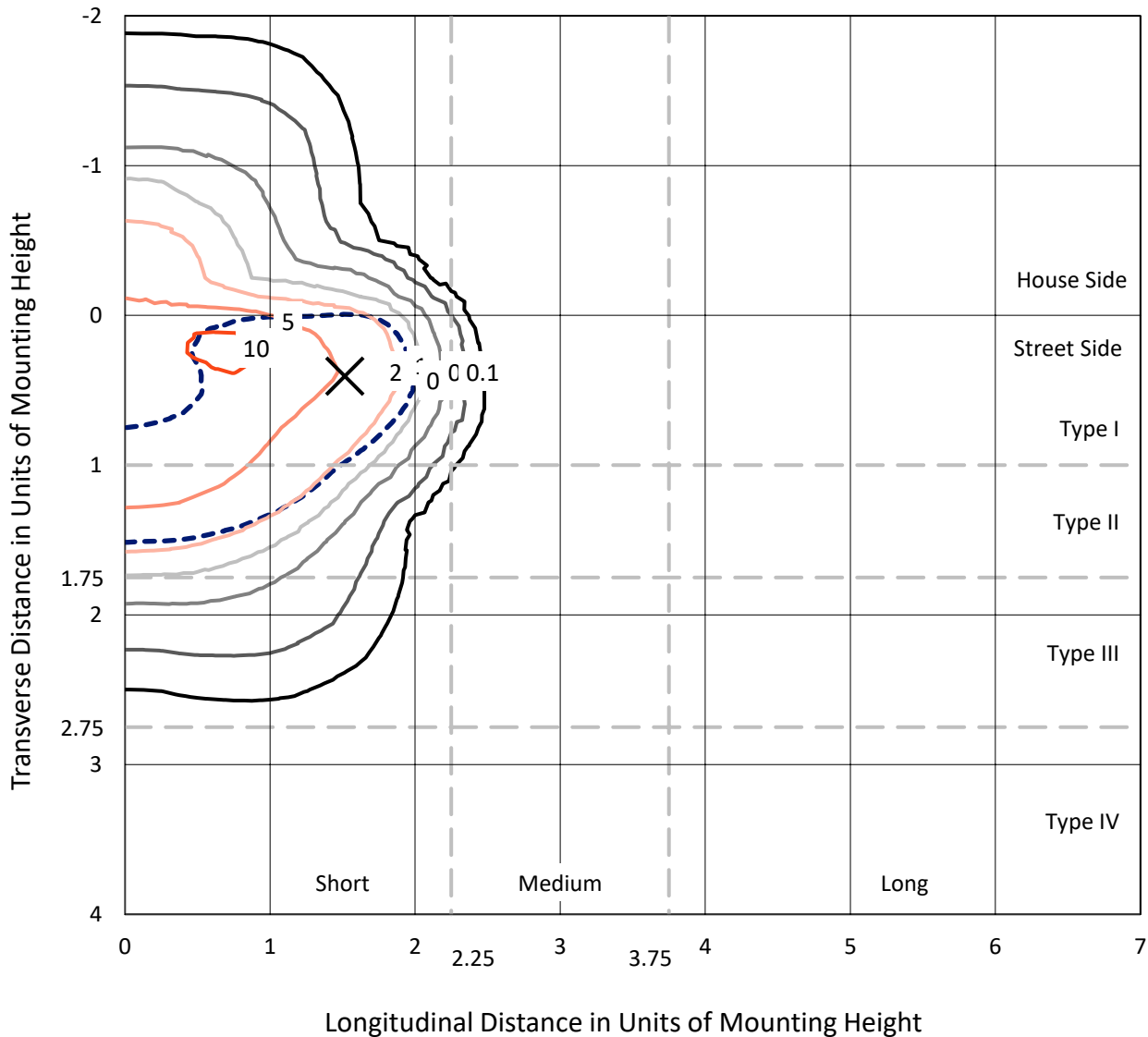
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

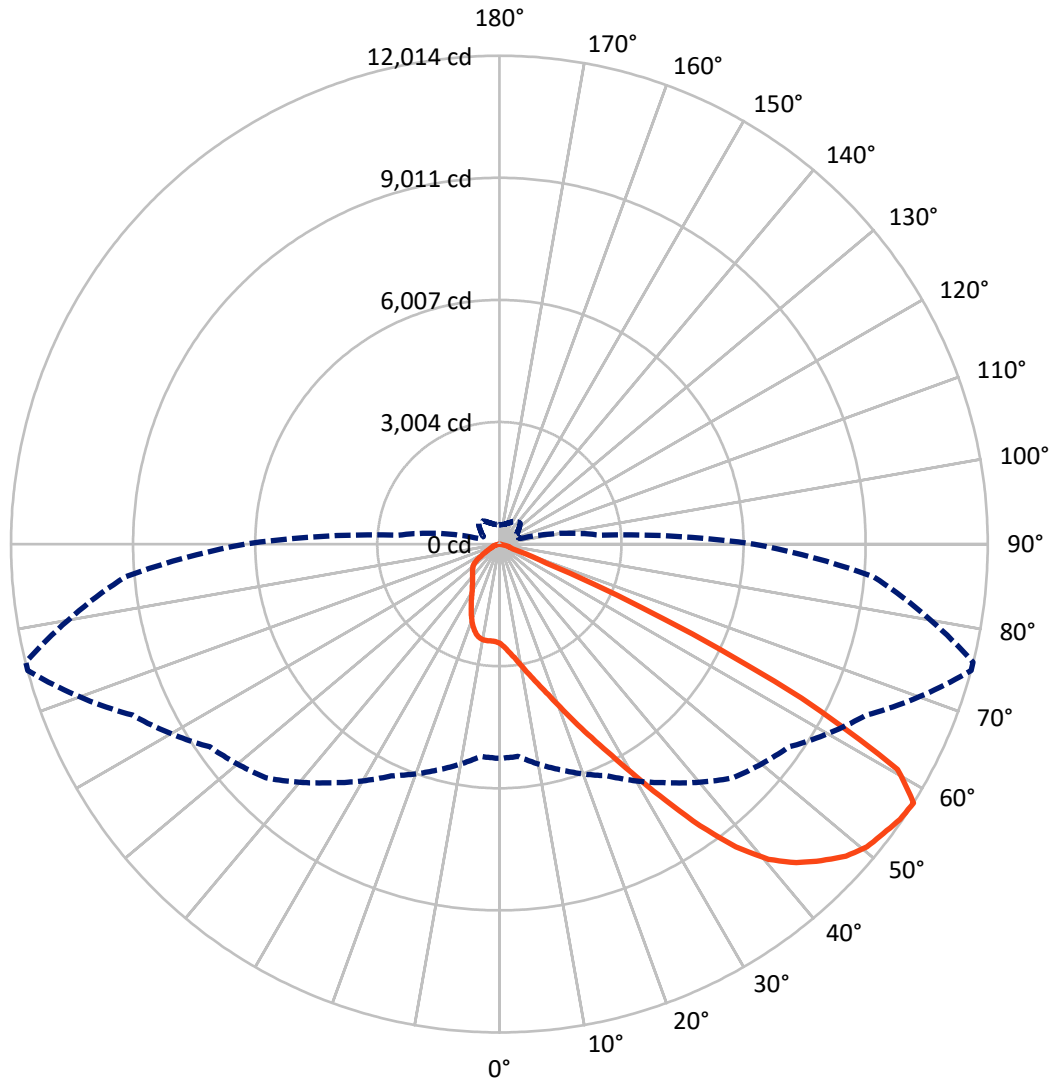
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2393.5	0.0	2393.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	12259.4	0.0	12259.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	14652.9	0.0	14652.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	1.7
10°-20°	807.8	5.5
20°-30°	1479.4	10.1
30°-40°	2454.4	16.8
40°-50°	3748.4	25.6
50°-60°	4212.0	28.7
60°-70°	1553.6	10.6
70°-80°	148.5	1.0
80°-90°	0.1	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°	14652.9	100.0
0°-180°	14652.9	100.0

Coefficient of Utilization



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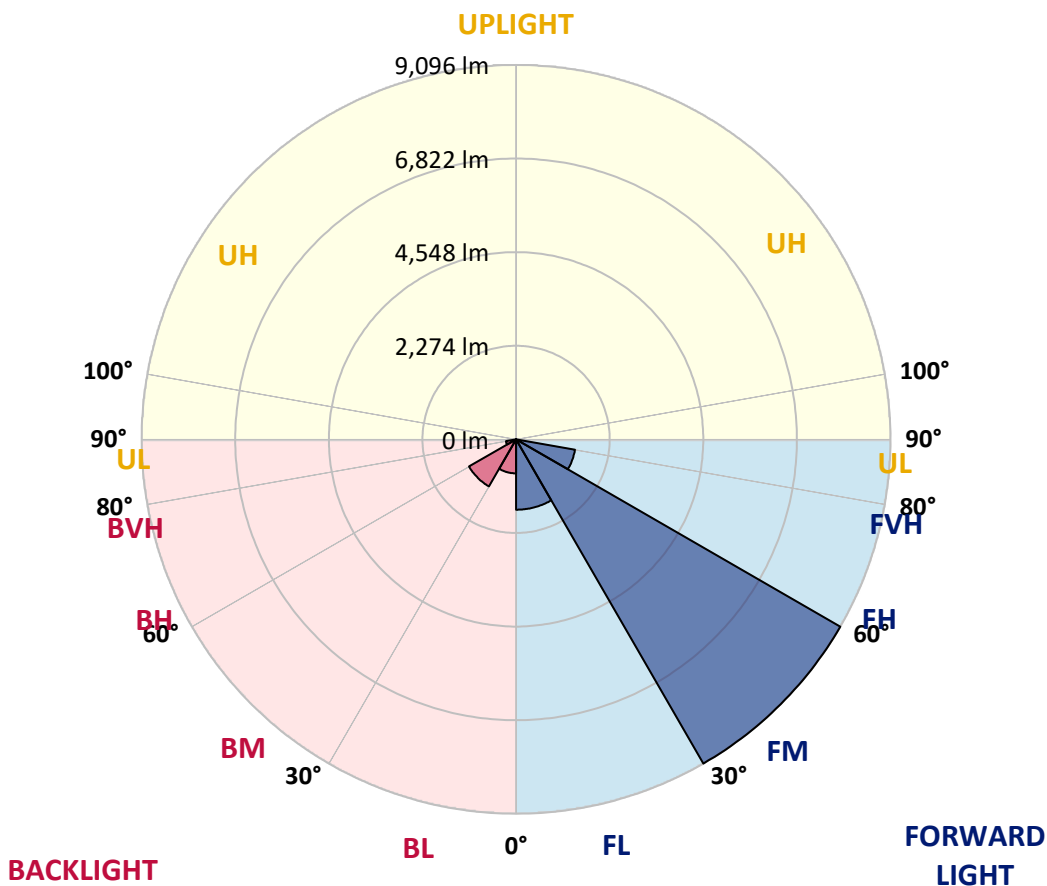
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1710.0	11.7			
FM (30°-60°)	9095.8	62.1			
FH (60°-80°)	1453.5	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	825.9	5.6	B2/1000		
BM (30°-60°)	1319.0	9.0	B2/2500		
BH (60°-80°)	248.6	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	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°	65°	75°	76°	85°
0°	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9
2.5°	2730.4	2758.7	2749.8	2732.1	2721.5	2684.4	2661.4	2594.2	2546.5	2541.2	2497.0
5°	3075.2	3069.9	3062.8	3041.6	3023.9	2965.6	2896.6	2783.4	2682.6	2670.3	2576.5
7.5°	3264.4	3268.0	3271.5	3268.0	3255.6	3211.4	3135.3	3002.7	2848.9	2838.2	2689.7
10°	3342.2	3349.3	3367.0	3400.6	3430.7	3427.1	3382.9	3246.7	3057.5	3039.8	2840.0
12.5°	3379.4	3388.2	3416.5	3480.2	3561.5	3625.2	3632.3	3510.2	3301.6	3273.3	3018.6
15°	3430.7	3439.5	3474.9	3558.0	3676.5	3802.0	3883.4	3805.6	3572.1	3542.1	3214.9
17.5°	3453.6	3466.0	3517.3	3626.9	3780.8	3973.5	4157.5	4150.4	3892.2	3869.2	3443.0
20°	3497.9	3506.7	3552.7	3671.2	3856.8	4134.5	4443.9	4555.3	4283.0	4249.4	3718.9
22.5°	3637.6	3641.1	3662.3	3736.6	3909.9	4251.2	4735.7	5027.5	4744.6	4700.4	4028.4
25°	3865.7	3863.9	3872.7	3885.1	4012.5	4369.7	5016.9	5559.8	5273.3	5225.6	4378.5
27.5°	4155.7	4155.7	4176.9	4141.5	4192.8	4516.4	5294.5	6171.6	5888.7	5821.5	4762.2
30°	4497.0	4495.2	4544.7	4488.1	4504.1	4748.1	5593.4	6838.3	6631.4	6548.3	5204.3
32.5°	4960.3	4949.7	5006.3	4928.5	4875.4	5098.2	5957.7	7535.1	7520.9	7393.6	5759.6
35°	5545.6	5528.0	5545.6	5469.6	5374.1	5588.1	6435.1	8230.0	8507.7	8373.3	6421.0
37.5°	6127.4	6184.0	6203.5	6072.6	5994.8	6208.8	7009.9	8852.5	9450.2	9310.5	7108.9
40°	6813.6	6795.9	6863.1	6716.3	6666.8	6903.8	7572.2	9315.8	10196.5	10063.8	7720.7
42.5°	7319.3	7351.2	7434.3	7352.9	7314.0	7536.8	8044.4	9586.4	10714.6	10583.7	8157.5
45°	7925.9	7948.9	7980.7	7913.5	7872.8	8092.1	8385.7	9704.9	11109.0	10967.5	8451.1
47.5°	8581.9	8599.6	8599.6	8461.7	8330.8	8421.0	8613.8	9772.1	11471.5	11335.3	8668.6
50°	9052.3	9061.2	9139.0	9041.7	8757.0	8617.3	8718.1	9837.5	11712.0	11584.7	8739.3
52.5°	8635.0	8624.4	8880.8	9082.4	9158.4	8880.8	8898.5	9933.0	11828.7	11719.0	8795.9
55°	7271.6	7253.9	7614.6	8104.5	8774.7	9130.1	9116.0	9989.6	11957.8	11890.6	9001.0
57.5°	5271.5	5241.5	5743.7	6288.4	7167.2	8131.0	8696.9	9957.7	12014.4	12009.1	9239.8
60°	3168.9	3144.2	3618.1	4191.1	4870.1	5839.2	6778.2	8919.7	11257.5	11268.1	8619.1
62.5°	1950.5	1973.5	2401.5	2693.2	2946.1	3237.9	3780.8	6000.1	8339.7	8408.6	6056.7
65°	1312.1	1329.8	1725.9	2093.8	2093.8	1711.8	1469.5	2868.3	4449.2	4332.5	2864.8
67.5°	880.7	900.1	1213.1	1642.8	1704.7	1193.7	595.9	855.9	1239.6	1202.5	709.1
70°	518.1	539.4	808.1	1126.5	1241.4	831.1	397.9	362.5	351.9	341.3	275.9
72.5°	231.7	240.5	412.0	573.0	523.4	350.1	281.2	290.0	274.1	268.8	224.6
75°	70.7	74.3	106.1	123.8	125.6	125.6	169.8	228.1	215.7	217.5	173.3
77.5°	17.7	17.7	28.3	26.5	14.1	12.4	31.8	51.3	53.1	47.7	35.4
80°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
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°	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9	2443.9
2.5°	2477.5	2431.5	2401.5	2359.0	2329.0	2297.1	2268.8	2245.8	2233.5	2229.9	2231.7
5°	2534.1	2461.6	2390.8	2309.5	2252.9	2199.9	2157.4	2123.8	2107.9	2102.6	2102.6
7.5°	2620.7	2519.9	2394.4	2267.1	2171.6	2088.5	2038.9	2001.8	1987.7	1984.1	1973.5
10°	2733.9	2596.0	2389.1	2191.0	2056.6	1970.0	1934.6	1924.0	1929.3	1931.1	1929.3
12.5°	2870.1	2675.6	2355.5	2079.6	1934.6	1881.6	1885.1	1913.4	1945.2	1961.1	1964.7
15°	3015.1	2748.1	2279.4	1947.0	1830.3	1828.5	1879.8	1945.2	2007.1	2033.6	2040.7
17.5°	3177.8	2806.4	2162.7	1805.5	1740.1	1791.4	1883.3	1984.1	2067.2	2111.4	2120.3
20°	3356.4	2854.2	2014.2	1672.9	1660.5	1752.5	1879.8	2003.6	2106.1	2155.7	2164.5
22.5°	3542.1	2887.8	1842.7	1550.9	1588.0	1708.3	1846.2	1966.4	2063.7	2120.3	2127.4
25°	3754.3	2891.3	1667.6	1448.3	1520.8	1648.1	1764.8	1863.9	1945.2	1994.7	2000.0
27.5°	3939.9	2848.9	1512.0	1365.2	1458.9	1573.9	1651.7	1706.5	1763.1	1791.4	1793.1
30°	4153.9	2774.6	1365.2	1298.0	1395.3	1481.9	1520.8	1533.2	1538.5	1543.8	1536.7
32.5°	4408.6	2684.4	1255.5	1232.6	1322.7	1381.1	1391.7	1367.0	1336.9	1294.5	1283.8
35°	4721.6	2603.1	1165.4	1168.9	1243.2	1278.5	1269.7	1216.6	1158.3	1107.0	1098.2
37.5°	5061.1	2534.1	1096.4	1107.0	1156.5	1181.3	1154.8	1096.4	1069.9	1025.7	1027.4
40°	5361.7	2477.5	1034.5	1045.1	1068.1	1091.1	1048.6	1009.7	1059.3	1055.7	1059.3
42.5°	5575.7	2429.8	981.5	976.1	992.1	1008.0	976.1	956.7	1039.8	1016.8	1029.2
45°	5701.3	2385.5	937.2	905.4	930.2	958.5	937.2	912.5	940.8	834.7	825.8
47.5°	5786.1	2360.8	898.3	836.4	880.7	930.2	886.0	825.8	785.2	693.2	686.1
50°	5795.0	2348.4	852.4	765.7	822.3	875.3	824.1	741.0	682.6	641.9	636.6
52.5°	5841.0	2373.2	788.7	675.5	737.4	822.3	786.9	703.8	624.2	588.9	581.8
55°	6046.1	2477.5	682.6	551.7	641.9	781.6	756.9	627.8	551.7	530.5	525.2
57.5°	6258.3	2498.7	537.6	436.8	558.8	723.3	691.4	578.3	504.0	479.2	473.9
60°	5722.5	2058.4	403.2	360.7	493.4	668.4	640.2	548.2	461.5	431.5	426.2
62.5°	3759.6	1112.3	320.1	305.9	415.6	565.9	583.6	495.1	412.0	380.2	378.4
65°	1733.0	516.4	245.8	242.3	325.4	450.9	502.2	433.3	348.4	320.1	320.1
67.5°	472.2	256.4	192.8	178.6	221.0	302.4	366.1	323.6	247.6	214.0	212.2
70°	235.2	206.9	173.3	153.8	159.2	187.4	215.7	180.4	125.6	102.6	100.8
72.5°	192.8	169.8	146.8	130.9	120.2	114.9	111.4	90.2	58.4	44.2	42.4
75°	143.2	122.0	104.3	84.9	72.5	67.2	60.1	44.2	24.8	14.1	12.4
77.5°	31.8	30.1	28.3	21.2	19.5	15.9	12.4	8.8	3.5	0.0	0.0
80°	1.8	1.8	1.8	1.8	1.8	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)