

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: P638803

Luminaire Tested: GWS-SA4F-750-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20356.9 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

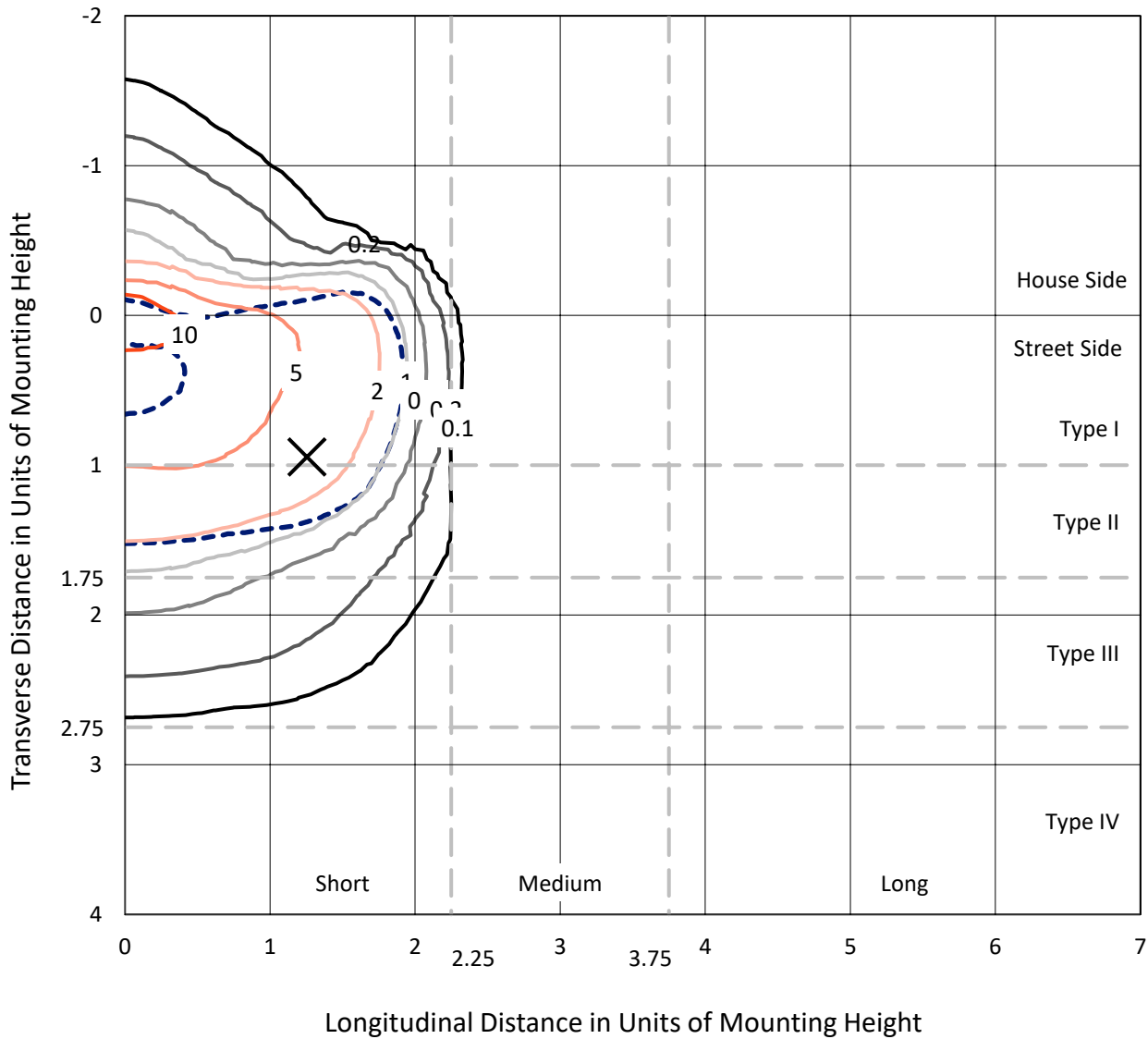
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

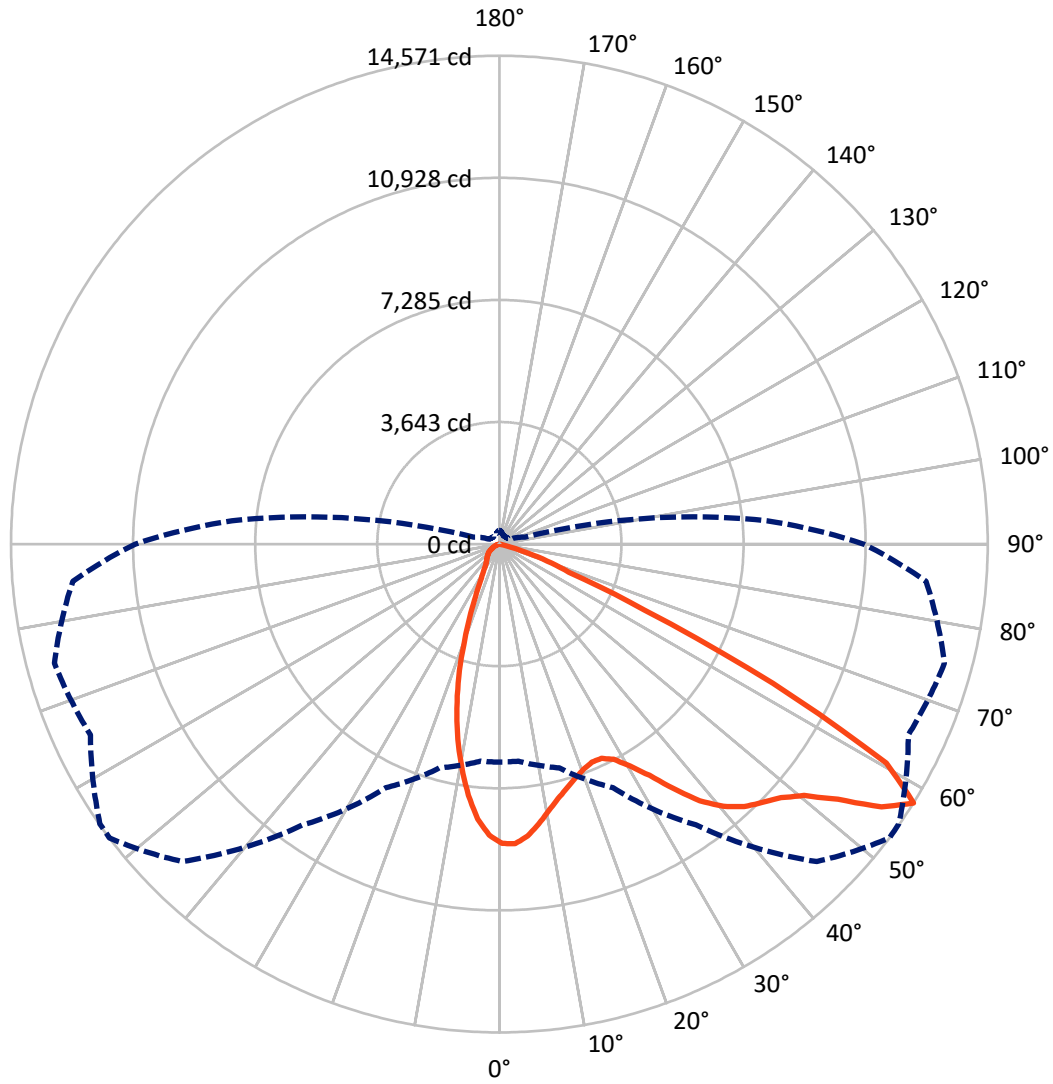
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3362.7	0.0	3362.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16994.2	0.0	16994.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	20356.9	0.0	20356.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.0	3.8
10°-20°	1677.3	8.2
20°-30°	2185.1	10.7
30°-40°	3169.5	15.6
40°-50°	4573.3	22.5
50°-60°	5531.0	27.2
60°-70°	2254.2	11.1
70°-80°	202.6	1.0
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°	20356.9	100.0
0°-180°	20356.9	100.0

Coefficient of Utilization



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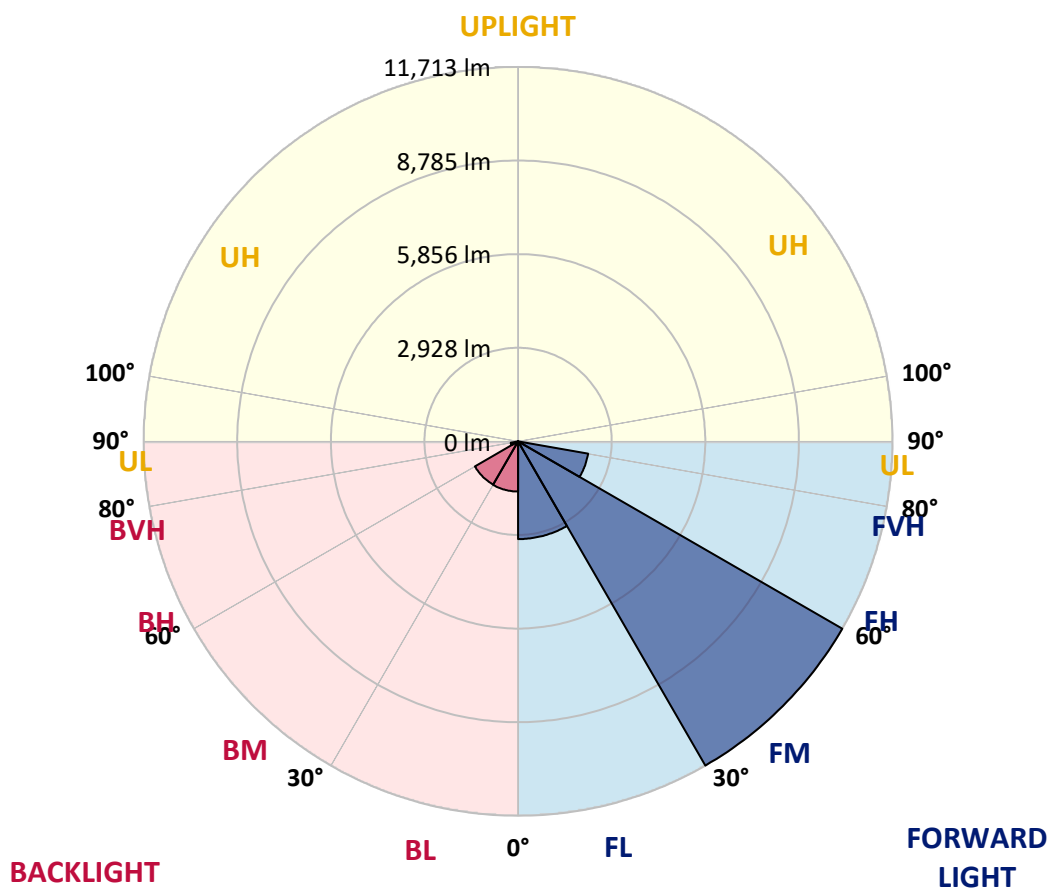
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3056.9	15.0			
FM (30°-60°)	11713.0	57.5			
FH (60°-80°)	2224.3	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1569.4	7.7	B3/2500		
BM (30°-60°)	1560.8	7.7	B2/2500		
BH (60°-80°)	232.5	1.1	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: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7
2.5°	8804.9	8824.9	8859.8	8904.7	8934.7	8949.7	8949.7	8992.1	8964.6	8942.2	8917.2
5°	8428.2	8448.2	8495.6	8567.9	8640.3	8692.7	8752.6	8797.5	8814.9	8814.9	8772.5
7.5°	7896.8	7924.2	7954.1	8053.9	8211.1	8328.4	8430.7	8495.6	8590.4	8620.3	8560.4
10°	7325.4	7352.8	7420.2	7557.4	7737.1	7911.7	8086.4	8168.7	8330.9	8415.7	8348.4
12.5°	6841.4	6853.8	6943.7	7108.3	7337.9	7577.4	7789.5	7874.3	8103.8	8231.1	8151.2
15°	6442.2	6449.6	6539.5	6721.6	6986.1	7280.5	7547.5	7634.8	7916.7	8108.8	7989.1
17.5°	6140.3	6142.8	6220.1	6417.2	6694.2	7021.0	7337.9	7445.2	7809.4	8041.5	7861.8
20°	5988.1	5980.6	6035.5	6207.6	6469.6	6796.4	7170.7	7302.9	7749.5	8031.5	7764.5
22.5°	5990.6	5973.1	5995.5	6117.8	6339.9	6646.7	7065.9	7215.6	7754.5	8073.9	7682.2
25°	6132.8	6107.8	6112.8	6177.7	6334.9	6614.3	7080.9	7240.6	7854.3	8216.1	7652.2
27.5°	6372.3	6344.9	6344.9	6377.3	6462.1	6716.6	7268.0	7450.1	8121.3	8493.1	7714.6
30°	6681.7	6654.2	6644.3	6676.7	6746.5	6981.1	7684.7	7874.3	8577.9	8947.2	7914.2
32.5°	7036.0	7003.5	7021.0	7065.9	7133.3	7457.6	8221.1	8473.1	9149.3	9558.4	8273.5
35°	7410.2	7382.8	7462.6	7559.9	7664.7	8118.8	8962.1	9181.7	9850.4	10319.4	8822.4
37.5°	7767.0	7754.5	7921.7	8126.3	8343.4	8912.2	9715.6	9885.3	10451.7	11147.8	9493.6
40°	8123.8	8121.3	8408.2	8767.5	9114.3	9703.2	10287.0	10426.7	10818.4	11791.5	10137.3
42.5°	8523.0	8523.0	8919.7	9398.8	9860.3	10371.8	10706.2	10768.5	10983.1	12163.3	10621.3
45°	8904.7	8927.2	9386.3	9942.7	10489.1	10893.3	10995.6	11000.6	11050.5	12382.8	11023.0
47.5°	9206.6	9226.6	9775.5	10416.7	11005.6	11290.0	11305.0	11282.5	11227.6	12592.4	11332.4
50°	9451.2	9481.1	10055.0	10733.6	11359.9	11671.7	11786.5	11764.0	11624.3	12816.9	11549.5
52.5°	9570.9	9613.3	10152.3	10890.8	11754.1	12325.4	12644.8	12697.2	12218.1	12941.7	11756.6
55°	8612.8	8675.2	9171.7	10182.2	11973.6	13335.9	13837.4	13827.4	12861.9	13313.5	12260.6
57.5°	6504.5	6499.5	6911.2	8016.5	10227.1	13393.3	14570.9	14551.0	13463.2	13745.1	12777.0
60°	4428.7	4398.7	4508.5	5042.4	7150.7	10910.7	13261.1	13530.5	13036.5	12697.2	10848.4
62.5°	3645.2	3617.8	3582.9	3435.7	4106.8	6796.4	9161.7	9570.9	9506.0	8824.9	6803.9
65°	2984.1	3006.5	3103.8	3041.4	2856.8	3485.6	4755.5	4997.5	4568.4	3844.8	2377.8
67.5°	2200.6	2210.6	2337.8	2667.2	2567.4	2320.4	2238.0	2278.0	1334.8	613.8	396.7
70°	1299.9	1307.4	1424.7	1866.3	2083.3	1781.4	1512.0	1489.5	528.9	164.7	179.6
72.5°	736.0	721.1	743.5	888.2	1135.2	945.6	778.4	708.6	159.7	92.3	92.3
75°	349.3	339.3	291.9	274.5	249.5	159.7	99.8	84.8	39.9	37.4	37.4
77.5°	2.5	7.5	5.0	7.5	7.5	5.0	2.5	2.5	7.5	7.5	10.0
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°	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7	8929.7
2.5°	8872.3	8797.5	8780.0	8775.0	8705.1	8630.3	8552.9	8523.0	8478.1	8450.7	8473.1
5°	8705.1	8597.9	8503.0	8415.7	8261.0	8091.4	7944.2	7849.4	7759.5	7699.6	7714.6
7.5°	8468.1	8328.4	8111.3	7889.3	7604.8	7350.3	7065.9	6891.3	6729.1	6639.3	6681.7
10°	8216.1	8031.5	7684.7	7307.9	6861.3	6462.1	6055.4	5723.6	5531.5	5349.3	5369.3
12.5°	7969.1	7724.6	7205.6	6634.3	6070.4	5481.6	4867.8	4408.7	4094.3	3867.3	3832.4
15°	7739.6	7425.2	6739.1	5985.6	5217.1	4433.7	3650.2	2994.0	2629.8	2405.2	2390.2
17.5°	7535.0	7145.8	6255.0	5306.9	4343.8	3340.8	2440.1	1948.6	1739.0	1641.7	1631.7
20°	7337.9	6863.8	5761.0	4618.3	3390.7	2345.3	1684.1	1457.1	1389.7	1349.8	1354.8
22.5°	7148.2	6556.9	5242.0	3854.8	2542.4	1646.7	1304.9	1217.6	1210.1	1215.1	1217.6
25°	6988.6	6275.0	4708.1	3118.8	1813.9	1255.0	1090.3	1065.4	1087.8	1120.3	1125.3
27.5°	6906.2	6045.4	4186.7	2377.8	1312.4	1020.5	945.6	955.6	995.5	1030.4	1035.4
30°	6928.7	5873.3	3647.7	1724.1	1010.5	860.8	835.8	855.8	895.7	928.1	933.1
32.5°	7088.4	5786.0	3096.3	1255.0	830.8	751.0	741.0	756.0	790.9	815.9	818.4
35°	7405.2	5805.9	2572.4	960.6	713.6	668.7	666.2	676.2	693.6	711.1	713.6
37.5°	7871.8	5968.1	2055.9	798.4	646.2	613.8	603.8	603.8	616.3	623.8	628.7
40°	8373.3	6212.6	1646.7	706.1	598.8	563.9	543.9	536.4	546.4	556.4	558.9
42.5°	8787.5	6457.1	1337.3	641.2	561.4	514.0	489.0	484.0	496.5	514.0	519.0
45°	9104.3	6646.7	1115.3	588.8	519.0	466.6	439.1	439.1	461.6	491.5	496.5
47.5°	9393.8	6798.9	950.6	541.4	479.0	424.2	396.7	401.7	439.1	479.0	486.5
50°	9590.9	6921.2	828.3	499.0	446.6	389.2	364.3	374.3	419.2	466.6	474.1
52.5°	9803.0	7070.9	748.5	461.6	416.7	361.8	339.3	346.8	396.7	449.1	459.1
55°	10389.3	7572.4	746.0	411.7	364.3	324.4	314.4	316.9	366.8	426.6	439.1
57.5°	10868.3	8014.0	795.9	346.8	304.4	284.4	279.4	281.9	326.8	394.2	409.2
60°	8992.1	6227.6	658.7	286.9	254.5	249.5	242.0	247.0	289.4	349.3	361.8
62.5°	5321.9	3560.4	314.4	219.6	217.1	212.1	204.6	214.6	254.5	306.9	314.4
65°	1818.9	1055.4	199.6	179.6	184.6	177.1	169.7	179.6	214.6	244.5	247.0
67.5°	349.3	279.4	159.7	149.7	152.2	137.2	134.7	144.7	164.7	169.7	167.2
70°	182.1	162.2	122.3	122.3	117.3	97.3	97.3	107.3	107.3	99.8	97.3
72.5°	94.8	89.8	79.8	89.8	74.9	59.9	59.9	64.9	59.9	49.9	49.9
75°	37.4	37.4	34.9	44.9	32.4	27.4	25.0	29.9	22.5	17.5	17.5
77.5°	10.0	10.0	10.0	12.5	7.5	7.5	5.0	5.0	2.5	0.0	0.0
80°	0.0	2.5	0.0	2.5	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)