

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: P641297

Luminaire Tested: GWS-SA5F-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641297
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-SA5F-750-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY 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: 28620.3 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

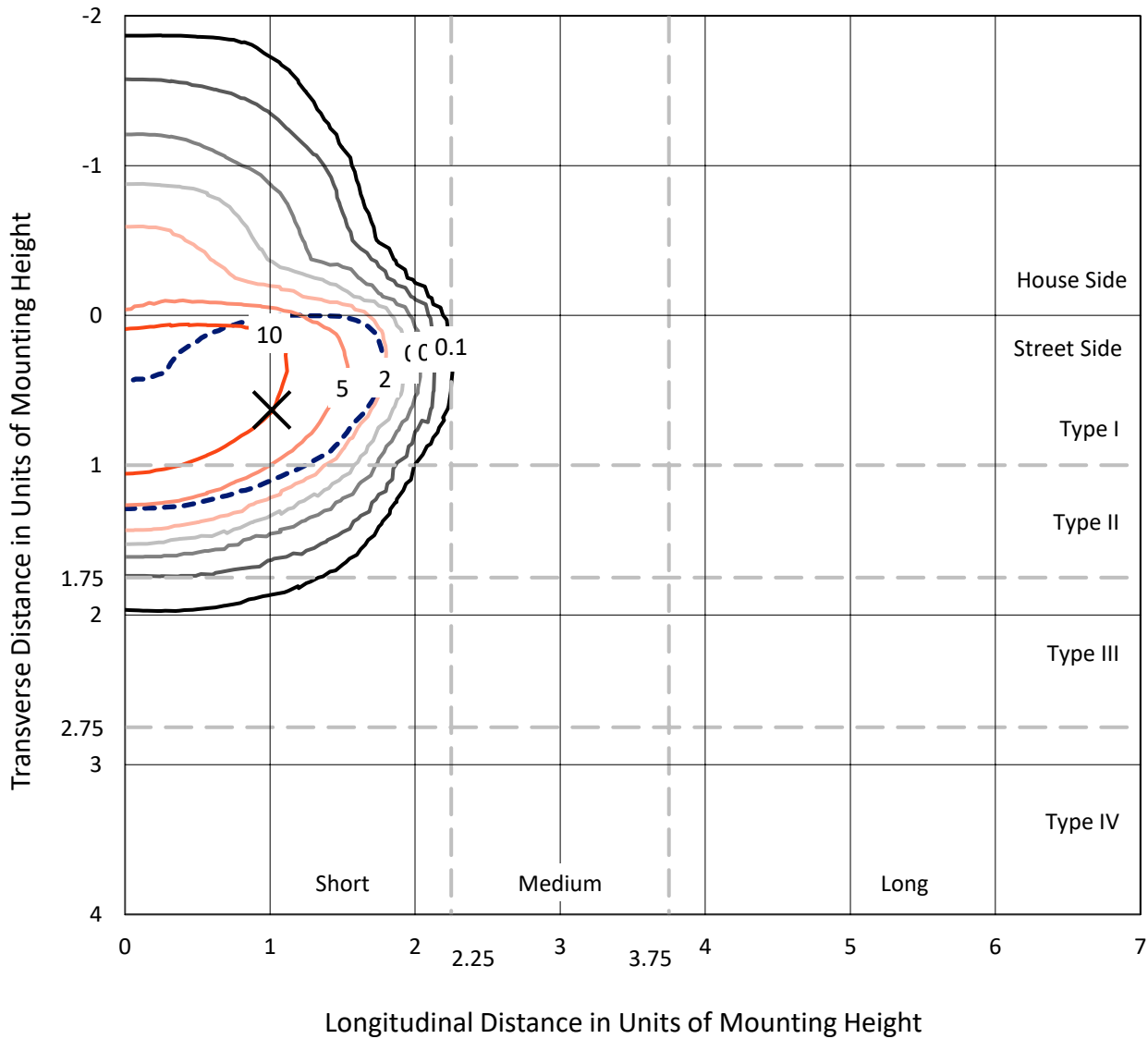
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

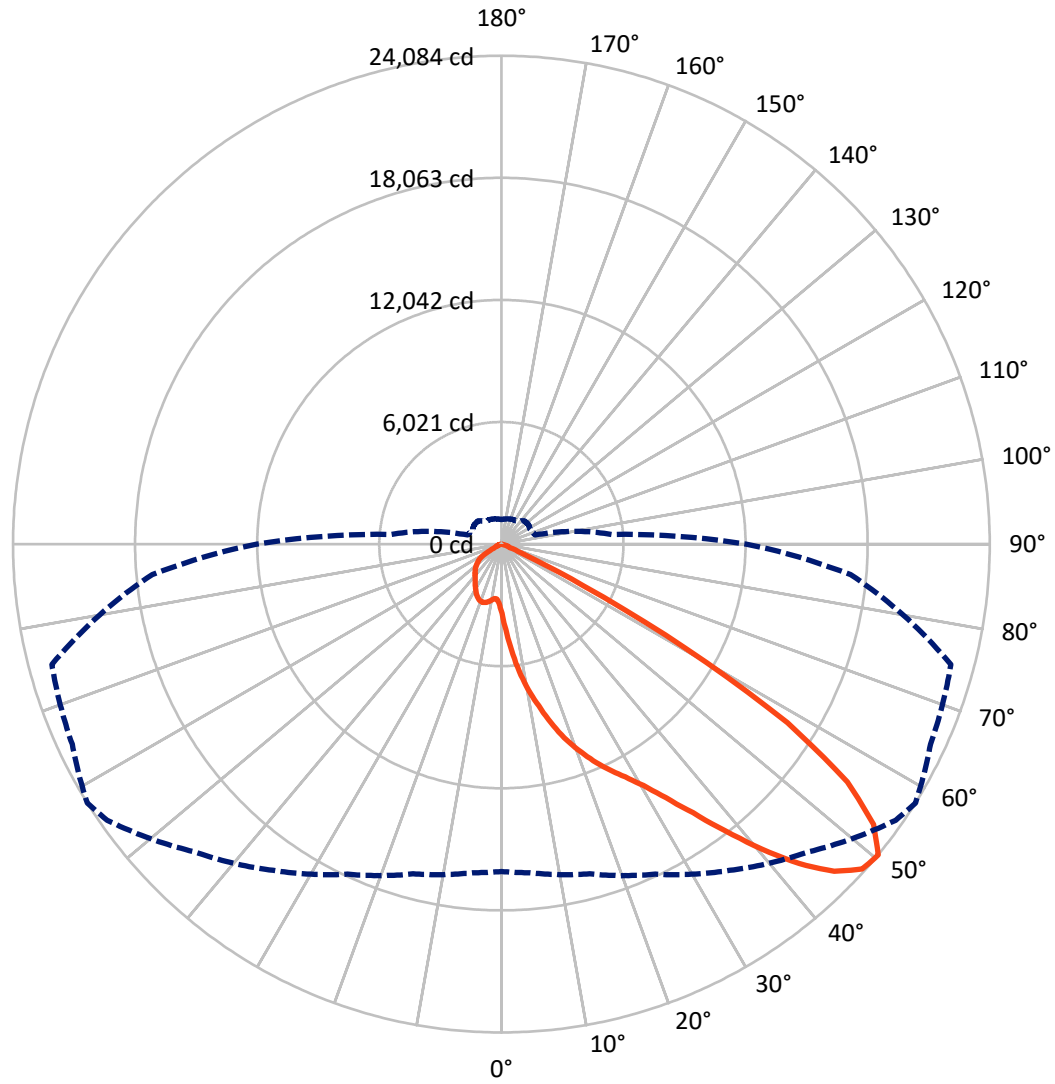
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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
House Side	Lumens	4008.7	0.0	4008.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	24611.6	0.0	24611.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	28620.3	0.0	28620.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.5	1.5
10°-20°	1676.6	5.9
20°-30°	3392.6	11.9
30°-40°	6001.9	21.0
40°-50°	8749.6	30.6
50°-60°	7013.0	24.5
60°-70°	1263.4	4.4
70°-80°	99.6	0.3
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°	28620.3	100.0
0°-180°	28620.3	100.0

Coefficient of Utilization



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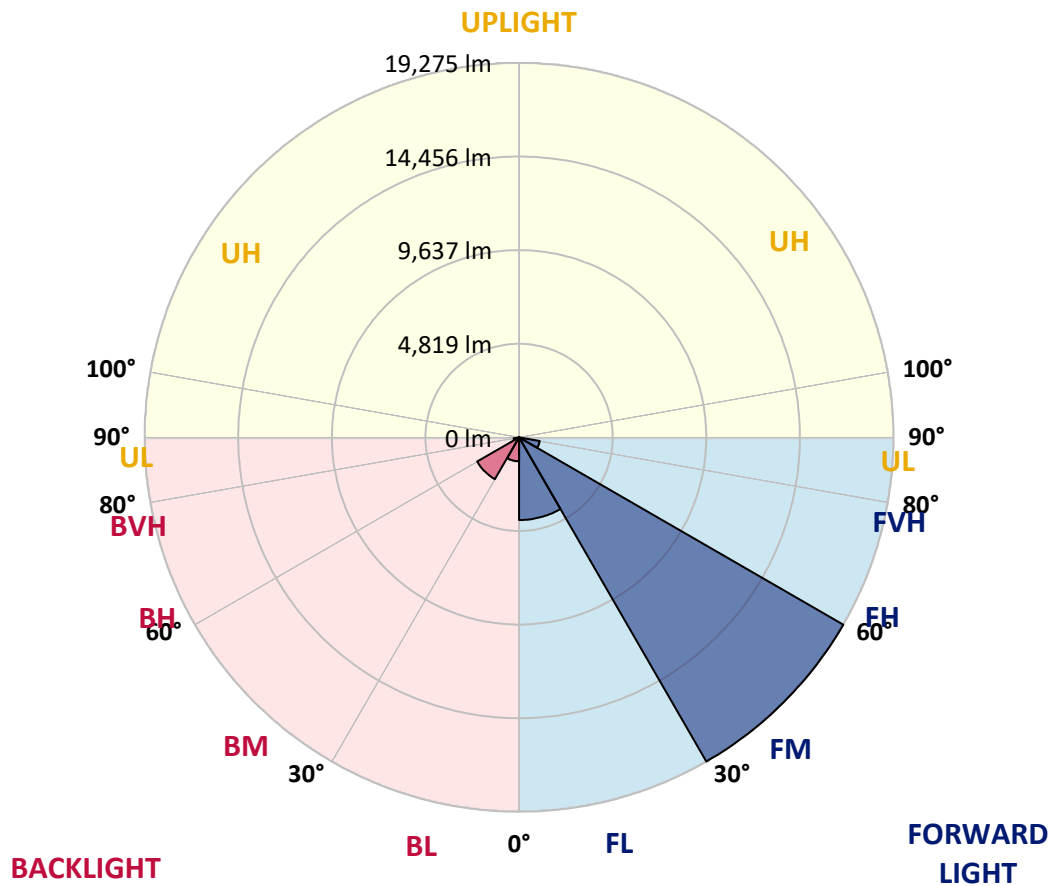
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4258.6	14.9			
FM (30°-60°)	19274.9	67.3			
FH (60°-80°)	1078.1	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1234.1	4.3	B3/2500		
BM (30°-60°)	2489.6	8.7	B2/2500		
BH (60°-80°)	284.9	1.0	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: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6
2.5°	5059.1	4979.5	4933.6	4896.9	4734.7	4477.6	4309.3	4220.5	4073.6	3825.7	3611.5
5°	6601.6	6543.5	6436.4	6362.9	6154.8	5790.6	5414.1	5264.2	4930.6	4370.5	3868.5
7.5°	7623.9	7581.0	7541.2	7443.3	7247.4	6916.9	6500.6	6344.5	5830.4	5034.6	4211.3
10°	8410.4	8376.8	8330.8	8327.8	8174.8	7877.9	7470.8	7308.6	6751.6	5756.9	4615.3
12.5°	9102.1	9074.6	9065.4	9151.1	9053.1	8832.8	8392.1	8190.1	7599.4	6494.5	5062.2
15°	9576.5	9570.4	9610.2	9778.5	9833.6	9732.6	9362.3	9145.0	8465.5	7235.2	5554.9
17.5°	9793.8	9812.2	9888.7	10179.4	10424.3	10510.0	10225.3	10041.7	9325.5	7985.0	6081.3
20°	10164.1	10158.0	10203.9	10479.4	10779.3	11085.3	10999.7	10843.6	10194.7	8777.7	6665.9
22.5°	11207.8	11119.0	11021.1	11063.9	11171.0	11529.1	11688.3	11608.7	11091.5	9591.8	7268.8
25°	12811.5	12719.7	12404.5	12098.4	11896.4	12058.6	12275.9	12315.7	11982.1	10427.3	7899.3
27.5°	14513.2	14430.5	14075.5	13616.4	13038.0	12756.4	12918.6	12998.2	12857.4	11422.0	8569.6
30°	16107.7	15997.5	15608.9	15039.6	14369.3	13937.8	13754.2	13809.2	13891.9	12600.3	9356.1
32.5°	17491.1	17408.5	16943.3	16343.4	15697.6	15247.7	14819.2	14911.0	15113.0	14041.8	10363.1
35°	18663.3	18620.4	18127.7	17530.9	16848.4	16618.8	16251.6	16269.9	16471.9	15783.3	11590.3
37.5°	19682.5	19609.0	19162.2	18608.2	18066.5	18029.8	17928.8	17937.9	18042.0	17812.5	13001.3
40°	20325.2	20257.8	19939.5	19596.8	19211.1	19217.3	19740.6	19780.4	19661.0	19804.9	14491.8
42.5°	20567.0	20518.0	20346.6	20349.7	20309.9	20490.5	21472.9	21546.3	21117.9	21368.8	15764.9
45°	20147.7	20126.2	20138.5	20579.2	21056.7	21613.7	22889.9	23018.5	22412.5	22406.4	16759.6
47.5°	18794.9	18752.1	19110.1	19860.0	20964.8	22048.3	23746.9	23945.8	23318.4	23000.1	17384.0
50°	16144.5	16266.9	16833.1	17959.4	19639.6	21451.5	23737.7	24083.5	23352.1	22948.1	17279.9
52.5°	11694.4	11669.9	12909.4	14458.1	16502.5	19541.7	22476.8	22981.7	22534.9	22437.0	17047.3
55°	6362.9	6586.3	7421.9	9472.4	12024.9	15927.2	19596.8	20698.6	21215.8	22250.3	17466.6
57.5°	2338.3	2436.2	2959.6	4410.3	6366.0	9904.0	14969.2	16631.1	18228.7	21730.0	17396.2
60°	942.7	961.0	1169.1	1622.1	2674.9	5040.7	8979.7	10454.9	11960.7	16634.1	13350.2
62.5°	685.6	710.0	792.7	948.8	1352.8	2203.6	3871.6	4502.1	4921.4	8239.0	6577.1
65°	554.0	572.3	639.7	710.0	893.7	1184.4	1248.7	1202.8	1196.7	2130.1	1508.9
67.5°	459.1	477.4	526.4	575.4	642.7	590.7	428.5	449.9	367.3	364.2	296.9
70°	336.7	358.1	407.1	459.1	385.6	159.1	247.9	367.3	278.5	232.6	226.5
72.5°	254.0	269.3	315.2	299.9	113.2	61.2	165.3	266.3	214.2	171.4	168.3
75°	189.8	198.9	159.1	49.0	12.2	15.3	61.2	110.2	119.4	97.9	97.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.1	9.2	12.2	15.3	18.4
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°	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6	3418.6
2.5°	3489.0	3360.5	3176.9	3023.8	2907.5	2794.3	2708.6	2622.9	2619.8	2577.0	2567.8
5°	3635.9	3403.3	3066.7	2824.9	2678.0	2589.2	2528.0	2497.4	2482.1	2466.8	2460.7
7.5°	3847.1	3513.5	3048.3	2791.2	2668.8	2610.7	2567.8	2549.4	2540.3	2528.0	2525.0
10°	4107.3	3672.7	3115.7	2855.5	2748.4	2693.3	2647.4	2619.8	2604.5	2583.1	2577.0
12.5°	4419.4	3868.5	3222.8	2962.6	2849.4	2775.9	2714.7	2674.9	2653.5	2626.0	2619.8
15°	4756.1	4079.7	3342.1	3060.6	2925.9	2831.0	2754.5	2693.3	2653.5	2619.8	2610.7
17.5°	5105.0	4294.0	3449.3	3127.9	2962.6	2849.4	2739.2	2656.6	2607.6	2564.7	2552.5
20°	5496.8	4514.3	3519.6	3140.1	2950.4	2800.4	2671.9	2567.8	2518.8	2460.7	2448.4
22.5°	5906.9	4719.4	3550.2	3112.6	2883.0	2708.6	2570.9	2463.8	2393.4	2332.1	2313.8
25°	6304.8	4903.0	3534.9	3036.1	2782.0	2580.1	2439.3	2329.1	2252.6	2191.4	2176.1
27.5°	6727.1	5056.0	3479.9	2922.8	2644.3	2439.3	2304.6	2209.7	2139.3	2072.0	2056.7
30°	7201.5	5196.8	3391.1	2785.1	2482.1	2295.4	2191.4	2127.1	2050.6	1980.2	1958.8
32.5°	7773.8	5322.3	3262.6	2619.8	2338.3	2169.9	2111.8	2062.8	1974.1	1900.6	1885.3
35°	8428.8	5426.4	3100.3	2448.4	2197.5	2090.4	2078.1	2013.8	1897.5	1811.9	1793.5
37.5°	9187.8	5527.4	2907.5	2280.1	2093.4	2053.6	2056.7	1946.5	1805.7	1701.7	1689.4
40°	10005.0	5628.4	2693.3	2133.2	1998.5	2032.2	2004.7	1848.6	1619.0	1518.0	1505.8
42.5°	10855.8	5738.6	2476.0	1995.5	1919.0	1949.6	1909.8	1652.7	1487.4	1435.4	1429.3
45°	11624.0	5870.2	2240.3	1857.8	1839.4	1830.2	1762.9	1496.6	1426.2	1389.5	1386.4
47.5°	12178.0	5848.7	1989.4	1726.2	1753.7	1723.1	1518.0	1423.2	1365.0	1316.0	1303.8
50°	12077.0	5475.3	1729.2	1579.2	1643.5	1616.0	1365.0	1337.5	1285.4	1233.4	1215.0
52.5°	11819.9	4967.3	1502.7	1423.2	1524.2	1459.9	1261.0	1233.4	1187.5	1120.2	1098.7
55°	11957.6	4489.8	1325.2	1297.7	1401.7	1208.9	1144.6	1101.8	1052.8	979.4	970.2
57.5°	11513.8	3663.5	1065.1	1083.4	1239.5	1031.4	1003.9	936.5	853.9	804.9	798.8
60°	7969.7	1967.9	667.2	688.6	896.7	866.1	899.8	838.6	737.6	691.7	682.5
62.5°	3660.4	789.6	364.2	348.9	471.3	587.6	771.3	765.1	639.7	566.2	560.1
65°	887.6	361.1	260.1	244.8	266.3	352.0	501.9	602.9	517.2	431.5	422.4
67.5°	287.7	293.8	238.7	223.4	235.7	263.2	299.9	333.6	330.5	303.0	296.9
70°	229.5	266.3	220.4	202.0	202.0	211.2	202.0	162.2	140.8	153.0	159.1
72.5°	171.4	202.0	174.5	156.1	150.0	146.9	125.5	91.8	64.3	58.2	55.1
75°	101.0	113.2	107.1	91.8	85.7	76.5	61.2	39.8	21.4	15.3	9.2
77.5°	18.4	21.4	24.5	18.4	15.3	12.2	9.2	3.1	0.0	0.0	0.0
80°	0.0	3.1	3.1	3.1	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)