

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: P641242

Luminaire Tested: GWS-SA5F-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641242
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27979.2 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

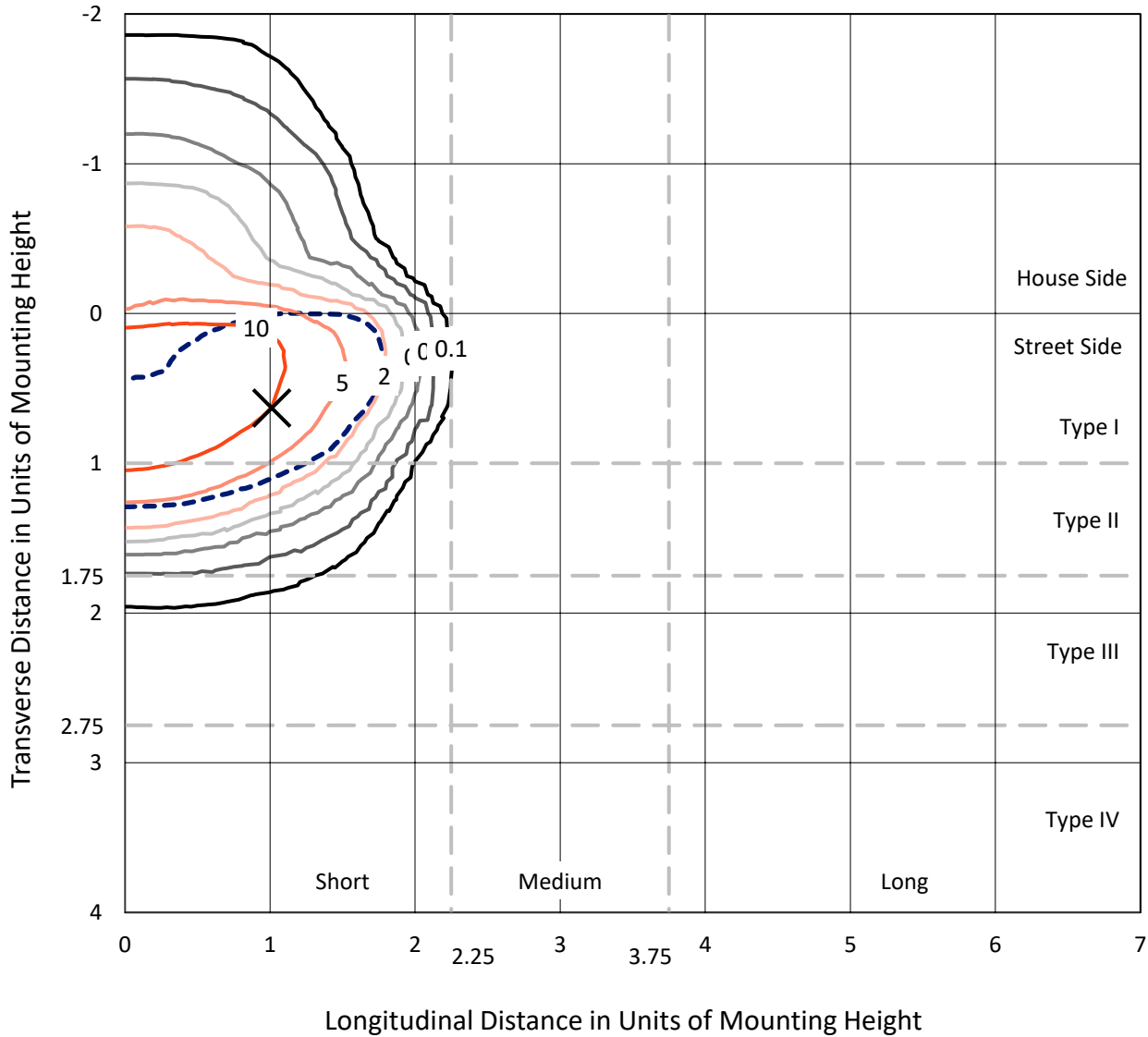
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

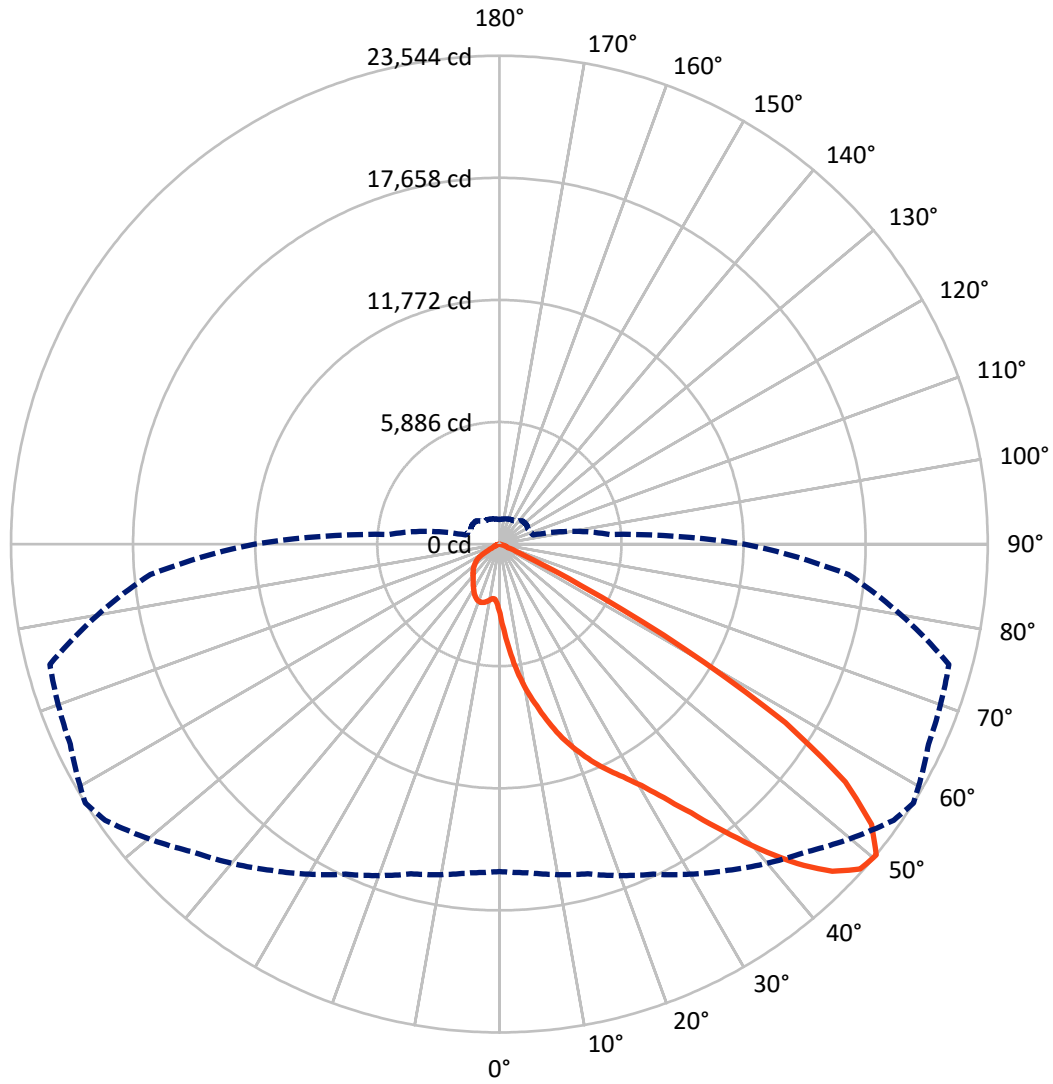
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	3918.9	0.0	3918.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	24060.3	0.0	24060.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	27979.2	0.0	27979.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.0	1.5
10°-20°	1639.0	5.9
20°-30°	3316.6	11.9
30°-40°	5867.5	21.0
40°-50°	8553.6	30.6
50°-60°	6855.9	24.5
60°-70°	1235.1	4.4
70°-80°	97.3	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°	27979.2	100.0
0°-180°	27979.2	100.0

Coefficient of Utilization



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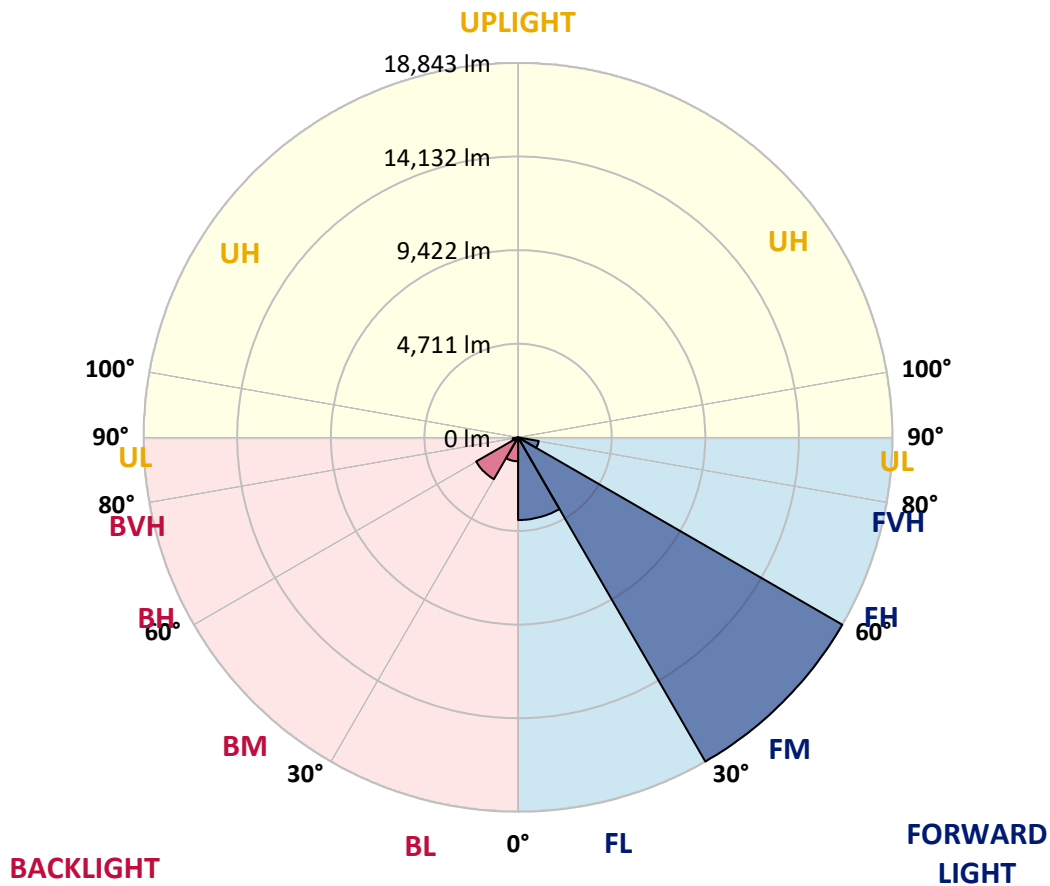
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4163.2	14.9			
FM (30°-60°)	18843.2	67.3			
FH (60°-80°)	1054.0	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1206.5	4.3	B3/2500		
BM (30°-60°)	2433.8	8.7	B2/2500		
BH (60°-80°)	278.5	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°	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1
2.5°	4945.8	4868.0	4823.1	4787.2	4628.6	4377.3	4212.7	4126.0	3982.4	3740.0	3530.6
5°	6453.8	6396.9	6292.2	6220.4	6016.9	5660.9	5292.9	5146.2	4820.1	4272.6	3781.9
7.5°	7453.1	7411.2	7372.3	7276.6	7085.1	6761.9	6355.0	6202.4	5699.8	4921.8	4117.0
10°	8222.0	8189.1	8144.2	8141.2	7991.6	7701.4	7303.5	7144.9	6600.4	5628.0	4511.9
12.5°	8898.2	8871.3	8862.3	8946.1	8850.3	8634.9	8204.1	8006.6	7429.1	6349.0	4948.8
15°	9362.0	9356.0	9394.9	9559.4	9613.3	9514.6	9152.5	8940.1	8275.9	7073.1	5430.5
17.5°	9574.4	9592.4	9667.2	9951.4	10190.8	10274.5	9996.3	9816.8	9116.6	7806.1	5945.1
20°	9936.4	9930.5	9975.3	10244.6	10537.8	10837.0	10753.3	10600.7	9966.4	8581.1	6516.6
22.5°	10956.7	10869.9	10774.2	10816.1	10920.8	11270.9	11426.5	11348.7	10843.0	9376.9	7106.0
25°	12524.5	12434.8	12126.6	11827.4	11629.9	11788.5	12000.9	12039.8	11713.7	10193.8	7722.4
27.5°	14188.1	14107.3	13760.2	13311.4	12745.9	12470.7	12629.2	12707.0	12569.4	11166.2	8377.6
30°	15746.9	15639.2	15259.2	14702.7	14047.5	13625.6	13446.1	13499.9	13580.7	12318.1	9146.6
32.5°	17099.3	17018.5	16563.7	15977.3	15346.0	14906.2	14487.3	14577.0	14774.5	13727.3	10130.9
35°	18245.2	18203.3	17721.6	17138.2	16471.0	16246.6	15887.5	15905.5	16103.0	15429.8	11330.7
37.5°	19241.6	19169.8	18732.9	18191.4	17661.8	17625.9	17527.2	17536.1	17637.9	17413.5	12710.0
40°	19869.9	19804.1	19492.9	19157.8	18780.8	18786.8	19298.4	19337.3	19220.6	19361.3	14167.1
42.5°	20106.3	20058.4	19890.8	19893.8	19854.9	20031.5	20991.9	21063.7	20644.8	20890.2	15411.8
45°	19696.4	19675.4	19687.4	20118.2	20585.0	21129.5	22377.2	22502.9	21910.4	21904.5	16384.2
47.5°	18373.9	18332.0	18682.1	19415.1	20495.2	21554.4	23215.0	23409.4	22796.1	22484.9	16994.6
50°	15782.8	15902.5	16456.0	17557.1	19199.7	20970.9	23206.0	23544.1	22829.0	22434.0	16892.8
52.5°	11432.4	11408.5	12620.3	14134.2	16132.9	19103.9	21973.3	22467.0	22030.1	21934.4	16665.5
55°	6220.4	6438.8	7255.6	9260.2	11755.6	15570.4	19157.8	20234.9	20740.6	21751.9	17075.4
57.5°	2285.9	2381.6	2893.3	4311.5	6223.4	9682.1	14633.9	16258.5	17820.4	21243.2	17006.5
60°	921.5	939.5	1142.9	1585.8	2615.0	4927.8	8778.5	10220.7	11692.7	16261.5	13051.1
62.5°	670.2	694.1	774.9	927.5	1322.5	2154.2	3784.9	4401.2	4811.1	8054.5	6429.8
65°	541.6	559.5	625.3	694.1	873.7	1157.9	1220.7	1175.9	1169.9	2082.4	1475.1
67.5°	448.8	466.8	514.6	562.5	628.3	577.5	418.9	439.8	359.0	356.0	290.2
70°	329.1	350.1	397.9	448.8	377.0	155.6	242.4	359.0	272.3	227.4	221.4
72.5°	248.3	263.3	308.2	293.2	110.7	59.8	161.6	260.3	209.4	167.6	164.6
75°	185.5	194.5	155.6	47.9	12.0	15.0	59.8	107.7	116.7	95.7	95.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	9.0	12.0	15.0	18.0
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°	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1
2.5°	3410.9	3285.2	3105.7	2956.1	2842.4	2731.7	2647.9	2564.1	2561.2	2519.3	2510.3
5°	3554.5	3327.1	2998.0	2761.6	2618.0	2531.2	2471.4	2441.5	2426.5	2411.6	2405.6
7.5°	3760.9	3434.8	2980.0	2728.7	2609.0	2552.2	2510.3	2492.3	2483.4	2471.4	2468.4
10°	4015.3	3590.4	3045.9	2791.5	2686.8	2633.0	2588.1	2561.2	2546.2	2525.3	2519.3
12.5°	4320.5	3781.9	3150.6	2896.3	2785.6	2713.7	2653.9	2615.0	2594.1	2567.1	2561.2
15°	4649.6	3988.3	3267.3	2992.0	2860.4	2767.6	2692.8	2633.0	2594.1	2561.2	2552.2
17.5°	4990.7	4197.8	3372.0	3057.8	2896.3	2785.6	2677.8	2597.1	2549.2	2507.3	2495.3
20°	5373.6	4413.2	3440.8	3069.8	2884.3	2737.7	2612.0	2510.3	2462.4	2405.6	2393.6
22.5°	5774.6	4613.7	3470.7	3042.9	2818.5	2647.9	2513.3	2408.6	2339.7	2279.9	2262.0
25°	6163.5	4793.2	3455.8	2968.1	2719.7	2522.3	2384.6	2276.9	2202.1	2142.3	2127.3
27.5°	6576.4	4942.8	3401.9	2857.4	2585.1	2384.6	2253.0	2160.2	2091.4	2025.6	2010.6
30°	7040.2	5080.4	3315.1	2722.7	2426.5	2244.0	2142.3	2079.4	2004.6	1935.8	1914.9
32.5°	7599.7	5203.1	3189.5	2561.2	2285.9	2121.3	2064.5	2016.6	1929.8	1858.0	1843.1
35°	8240.0	5304.8	3030.9	2393.6	2148.3	2043.5	2031.6	1968.7	1855.0	1771.3	1753.3
37.5°	8982.0	5403.6	2842.4	2229.0	2046.5	2007.6	2010.6	1902.9	1765.3	1663.6	1651.6
40°	9780.9	5502.3	2633.0	2085.4	1953.8	1986.7	1959.8	1807.2	1582.8	1484.0	1472.1
42.5°	10612.6	5610.0	2420.5	1950.8	1876.0	1905.9	1867.0	1615.7	1454.1	1403.2	1397.3
45°	11363.6	5738.7	2190.1	1816.1	1798.2	1789.2	1723.4	1463.1	1394.3	1358.4	1355.4
47.5°	11905.2	5717.7	1944.8	1687.5	1714.4	1684.5	1484.0	1391.3	1334.4	1286.6	1274.6
50°	11806.4	5352.7	1690.5	1543.9	1606.7	1579.8	1334.4	1307.5	1256.6	1205.8	1187.8
52.5°	11555.1	4856.0	1469.1	1391.3	1490.0	1427.2	1232.7	1205.8	1160.9	1095.1	1074.1
55°	11689.8	4389.3	1295.5	1268.6	1370.3	1181.8	1119.0	1077.1	1029.2	957.4	948.5
57.5°	11255.9	3581.4	1041.2	1059.2	1211.8	1008.3	981.4	915.6	834.8	786.9	780.9
60°	7791.2	1923.9	652.3	673.2	876.7	846.7	879.6	819.8	721.1	676.2	667.2
62.5°	3578.4	771.9	356.0	341.1	460.8	574.5	754.0	748.0	625.3	553.5	547.5
65°	867.7	353.1	254.3	239.4	260.3	344.1	490.7	589.4	505.6	421.9	412.9
67.5°	281.2	287.2	233.4	218.4	230.4	257.3	293.2	326.1	323.1	296.2	290.2
70°	224.4	260.3	215.4	197.5	197.5	206.4	197.5	158.6	137.6	149.6	155.6
72.5°	167.6	197.5	170.5	152.6	146.6	143.6	122.7	89.8	62.8	56.8	53.9
75°	98.7	110.7	104.7	89.8	83.8	74.8	59.8	38.9	20.9	15.0	9.0
77.5°	18.0	20.9	23.9	18.0	15.0	12.0	9.0	3.0	0.0	0.0	0.0
80°	0.0	3.0	3.0	3.0	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

(END OF REPORT)