

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: P642240

Luminaire Tested: GWS-SA6C-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17808.9 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

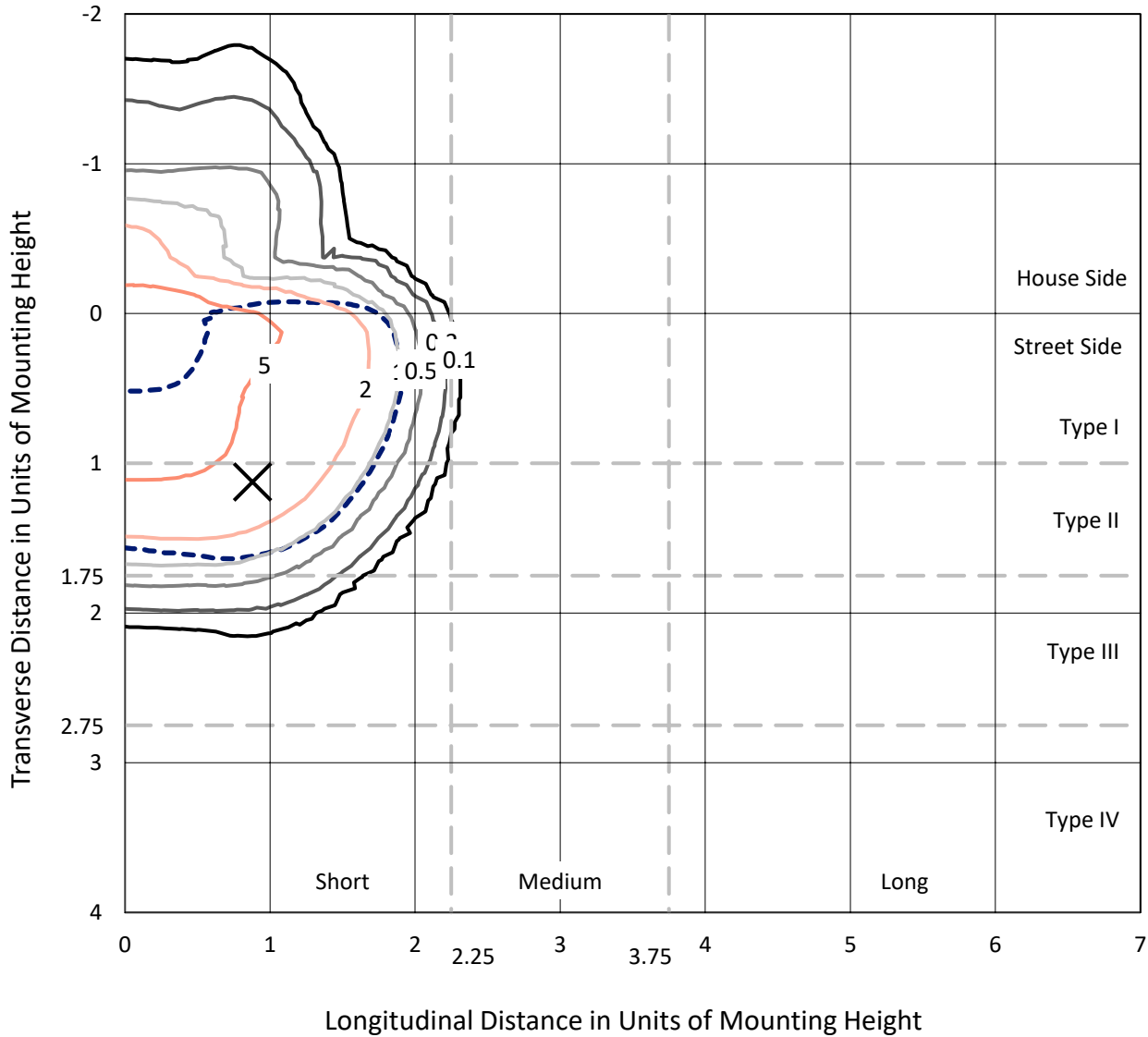
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

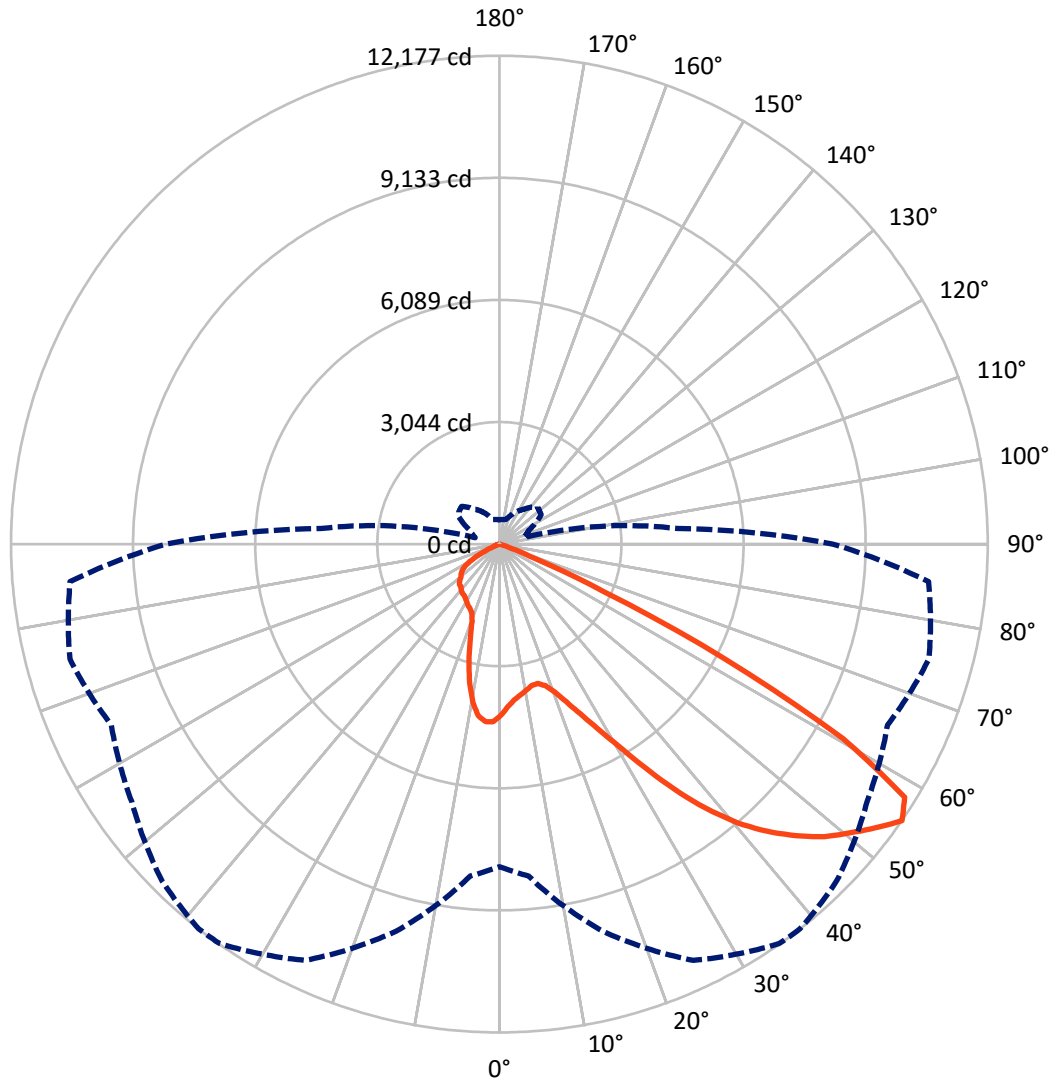
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3469.7	0.0	3469.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	14339.2	0.0	14339.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	17808.9	0.0	17808.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.9	2.2
10°-20°	1063.1	6.0
20°-30°	1824.3	10.2
30°-40°	3025.7	17.0
40°-50°	4448.0	25.0
50°-60°	5197.6	29.2
60°-70°	1761.8	9.9
70°-80°	90.1	0.5
80°-90°	3.5	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°	17808.9	100.0
0°-180°	17808.9	100.0

Coefficient of Utilization



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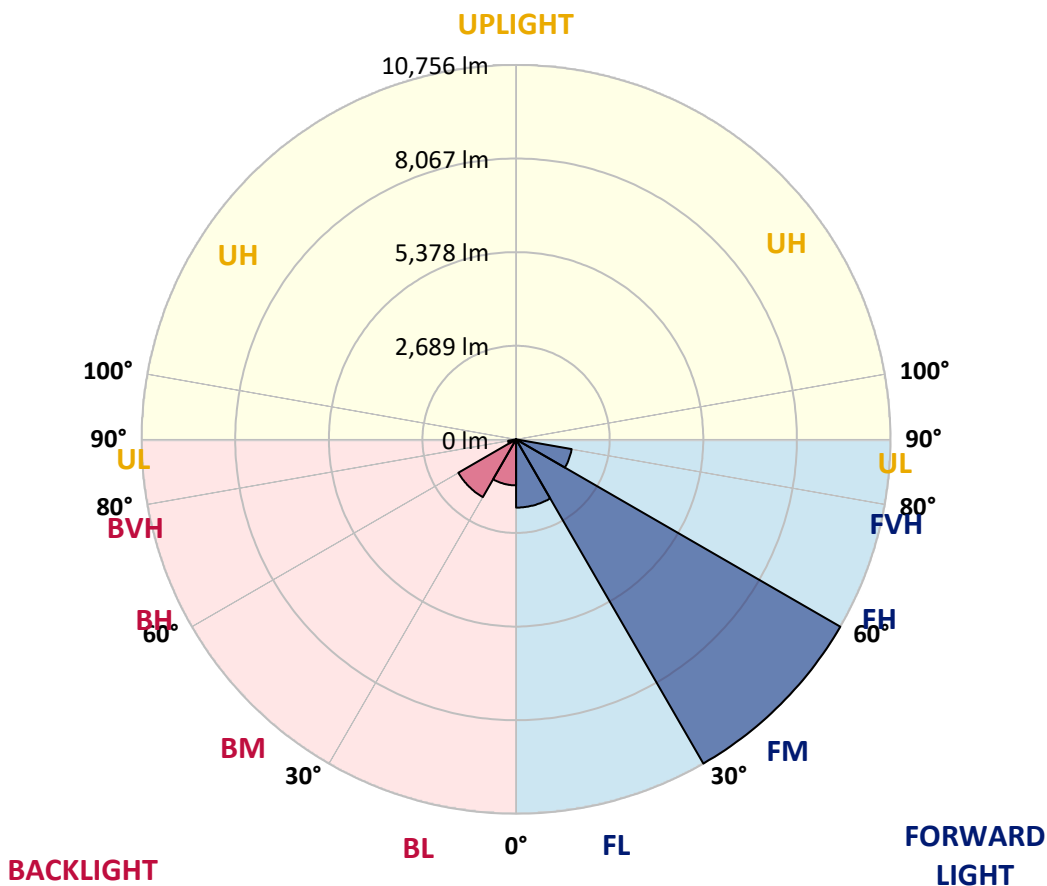
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1960.3	11.0			
FM (30°-60°)	10756.1	60.4			
FH (60°-80°)	1620.9	9.1			G1/1800
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	1321.9	7.4	B3/2500		
BM (30°-60°)	1915.1	10.8	B2/2500		
BH (60°-80°)	231.0	1.3	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7
2.5°	3977.6	3969.4	3985.7	4018.3	4048.8	4059.0	4089.5	4132.3	4158.8	4221.9	4272.7
5°	3798.4	3794.4	3810.7	3839.2	3879.9	3894.1	3940.9	4012.2	4083.4	4193.4	4301.2
7.5°	3635.6	3633.6	3658.0	3721.1	3780.1	3798.4	3855.4	3943.0	4038.7	4207.6	4366.4
10°	3421.9	3423.9	3470.7	3560.3	3668.2	3704.8	3796.4	3922.6	4046.8	4264.6	4484.4
12.5°	3352.7	3356.7	3381.1	3450.4	3568.4	3615.2	3743.5	3934.8	4093.6	4346.0	4637.1
15°	3521.6	3521.6	3501.2	3509.4	3562.3	3605.1	3739.4	3975.5	4173.0	4443.7	4787.8
17.5°	3849.3	3837.1	3786.2	3717.0	3698.7	3713.0	3820.8	4063.1	4285.0	4557.7	4958.7
20°	4293.1	4297.2	4197.4	4052.9	3936.9	3934.8	4000.0	4217.8	4445.8	4694.1	5144.0
22.5°	4830.5	4814.2	4681.9	4484.4	4282.9	4266.6	4293.1	4453.9	4677.8	4909.9	5372.0
25°	5453.4	5445.3	5258.0	4993.4	4726.7	4688.0	4688.0	4846.8	5009.6	5217.3	5644.7
27.5°	6104.8	6104.8	5923.6	5618.3	5264.1	5194.9	5184.7	5372.0	5479.9	5520.6	5874.8
30°	6774.5	6766.4	6587.2	6273.8	5895.1	5823.9	5795.4	5933.8	6011.2	5889.0	6161.8
32.5°	7454.4	7468.7	7287.5	6996.4	6658.5	6611.7	6524.1	6524.1	6587.2	6416.2	6613.7
35°	8185.2	8181.1	8038.6	7841.2	7552.1	7499.2	7354.7	7128.7	7224.4	7149.1	7238.6
37.5°	8830.5	8861.0	8791.8	8645.2	8411.1	8358.2	8120.0	7710.9	7784.2	7902.2	7981.6
40°	9485.9	9510.4	9579.6	9532.8	9237.6	9139.9	8716.5	8044.7	8126.2	8531.2	8759.2
42.5°	10129.2	10141.4	10281.9	10359.2	9964.3	9793.3	9168.4	8248.3	8333.8	9023.9	9422.8
45°	10538.4	10564.8	10796.9	11033.0	10605.5	10371.4	9561.3	8508.9	8545.5	9365.8	9913.4
47.5°	10522.1	10583.1	11018.8	11448.3	11157.2	10904.8	10033.5	8926.2	8865.1	9687.5	10237.1
50°	10194.3	10267.6	10892.6	11574.5	11554.1	11320.0	10558.7	9530.7	9339.4	9972.5	10277.8
52.5°	9514.4	9726.1	10670.7	11590.8	11873.7	11755.7	11208.1	10345.0	9980.6	10381.6	10342.9
55°	8044.7	8305.3	9996.9	11452.3	12162.8	12177.0	11890.0	11193.8	10676.8	11085.9	10744.0
57.5°	6106.8	6314.5	7694.6	10194.3	11684.4	11918.5	12154.6	11641.7	11106.3	11566.3	10837.6
60°	3680.4	3920.6	4818.3	7480.9	9437.1	9836.1	10762.3	10662.5	10017.2	10214.7	8887.5
62.5°	1492.1	1618.3	2224.9	4122.1	5939.9	6312.4	7200.0	7350.6	7191.8	6990.3	5390.3
65°	545.5	596.4	891.6	1703.8	2731.8	2868.2	3336.4	3603.0	3822.9	3254.9	2005.1
67.5°	337.9	370.5	580.1	875.3	993.4	924.2	940.5	1121.6	1070.7	661.6	358.3
70°	250.4	276.8	453.9	606.6	401.0	309.4	209.7	223.9	201.5	177.1	175.1
72.5°	173.0	197.5	339.9	358.3	154.7	109.9	77.4	107.9	122.1	120.1	124.2
75°	114.0	132.3	213.7	140.5	38.7	30.5	26.5	57.0	73.3	73.3	75.3
77.5°	67.2	77.4	75.3	28.5	8.1	8.1	6.1	10.2	16.3	18.3	22.4
80°	8.1	6.1	4.1	4.1	4.1	4.1	4.1	4.1	6.1	6.1	6.1
82.5°	2.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1	6.1	6.1
85°	0.0	0.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	6.1	6.1
87.5°	0.0	0.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	6.1	6.1
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°	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7	4270.7
2.5°	4311.4	4297.2	4356.2	4399.0	4433.6	4449.8	4427.5	4425.4	4425.4	4380.6	4368.4
5°	4362.3	4368.4	4451.9	4488.5	4494.6	4474.3	4423.4	4388.8	4368.4	4321.6	4295.1
7.5°	4460.0	4480.4	4559.8	4553.7	4498.7	4405.1	4270.7	4166.9	4099.7	4026.4	3981.7
10°	4600.5	4639.2	4688.0	4602.5	4427.5	4189.3	3912.4	3715.0	3596.9	3513.5	3462.6
12.5°	4771.5	4810.1	4793.9	4592.3	4228.0	3802.5	3446.3	3161.3	3024.9	2949.6	2896.7
15°	4944.5	4968.9	4863.1	4470.2	3875.8	3303.8	2906.9	2623.9	2457.0	2395.9	2351.1
17.5°	5121.6	5115.5	4875.3	4230.0	3405.6	2742.0	2351.1	2157.7	2110.9	2100.7	2096.7
20°	5306.8	5251.9	4826.4	3886.0	2839.7	2186.2	1964.4	1976.6	2062.1	2102.8	2110.9
22.5°	5518.5	5380.1	4704.3	3419.8	2261.6	1821.9	1844.3	1964.4	2080.4	2135.4	2143.5
25°	5744.5	5498.2	4500.7	2821.4	1783.2	1675.3	1807.6	1946.0	2070.2	2137.4	2145.5
27.5°	5893.1	5526.7	4166.9	2218.8	1530.8	1618.3	1758.8	1891.1	2019.3	2092.6	2102.8
30°	6053.9	5514.5	3713.0	1709.9	1445.3	1569.5	1691.6	1811.7	1929.8	2011.2	2019.3
32.5°	6290.0	5506.3	3159.3	1388.3	1410.7	1530.8	1620.3	1720.1	1801.5	1848.3	1842.2
35°	6599.4	5496.1	2514.0	1251.9	1390.3	1500.2	1571.5	1618.3	1528.7	1500.2	1506.4
37.5°	6996.4	5520.6	1970.5	1194.9	1384.2	1492.1	1553.2	1418.8	1280.4	1227.5	1219.3
40°	7436.1	5583.7	1502.3	1172.5	1404.6	1512.5	1484.0	1262.1	1091.1	987.3	964.9
42.5°	7877.8	5652.9	1188.8	1164.4	1439.2	1569.5	1370.0	1148.1	891.6	832.6	824.4
45°	8205.5	5640.7	1028.0	1150.1	1469.7	1602.0	1339.4	985.2	795.9	769.5	771.5
47.5°	8370.4	5506.3	940.5	1117.6	1481.9	1569.5	1264.1	918.1	730.8	759.3	783.7
50°	8282.9	5158.2	859.0	1054.4	1455.5	1526.7	1144.0	867.2	698.2	816.3	871.2
52.5°	8177.0	4730.8	769.5	956.7	1392.4	1467.7	1097.2	852.9	677.9	787.8	828.5
55°	8317.5	4460.0	622.9	806.1	1268.2	1329.3	1060.6	850.9	631.0	612.7	606.6
57.5°	8120.0	3920.6	445.8	580.1	973.0	1052.4	1034.1	836.6	559.8	557.8	565.9
60°	6275.8	2391.8	305.3	368.4	596.4	671.8	938.4	800.0	482.4	443.8	445.8
62.5°	3566.4	1017.8	209.7	228.0	305.3	362.3	716.5	726.7	445.8	423.4	445.8
65°	1241.7	364.4	162.8	152.7	169.0	193.4	411.2	561.8	405.1	366.4	370.5
67.5°	256.5	181.2	144.5	126.2	126.2	126.2	209.7	350.1	333.8	291.1	295.2
70°	162.8	154.7	126.2	107.9	103.8	95.7	120.1	193.4	230.0	211.7	213.7
72.5°	120.1	118.1	99.7	87.5	77.4	69.2	75.3	95.7	118.1	122.1	124.2
75°	73.3	75.3	65.1	55.0	48.9	42.7	44.8	44.8	44.8	40.7	44.8
77.5°	22.4	24.4	20.4	16.3	14.2	14.2	14.2	12.2	10.2	6.1	6.1
80°	6.1	6.1	6.1	6.1	6.1	4.1	4.1	2.0	2.0	0.0	0.0
82.5°	6.1	6.1	6.1	6.1	4.1	4.1	2.0	2.0	0.0	0.0	0.0
85°	6.1	6.1	6.1	6.1	4.1	4.1	2.0	2.0	0.0	0.0	0.0
87.5°	6.1	6.1	6.1	6.1	4.1	4.1	2.0	2.0	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)