

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: P639820

Luminaire Tested: GWS-SA5C-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639820  
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-SA5C-750-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

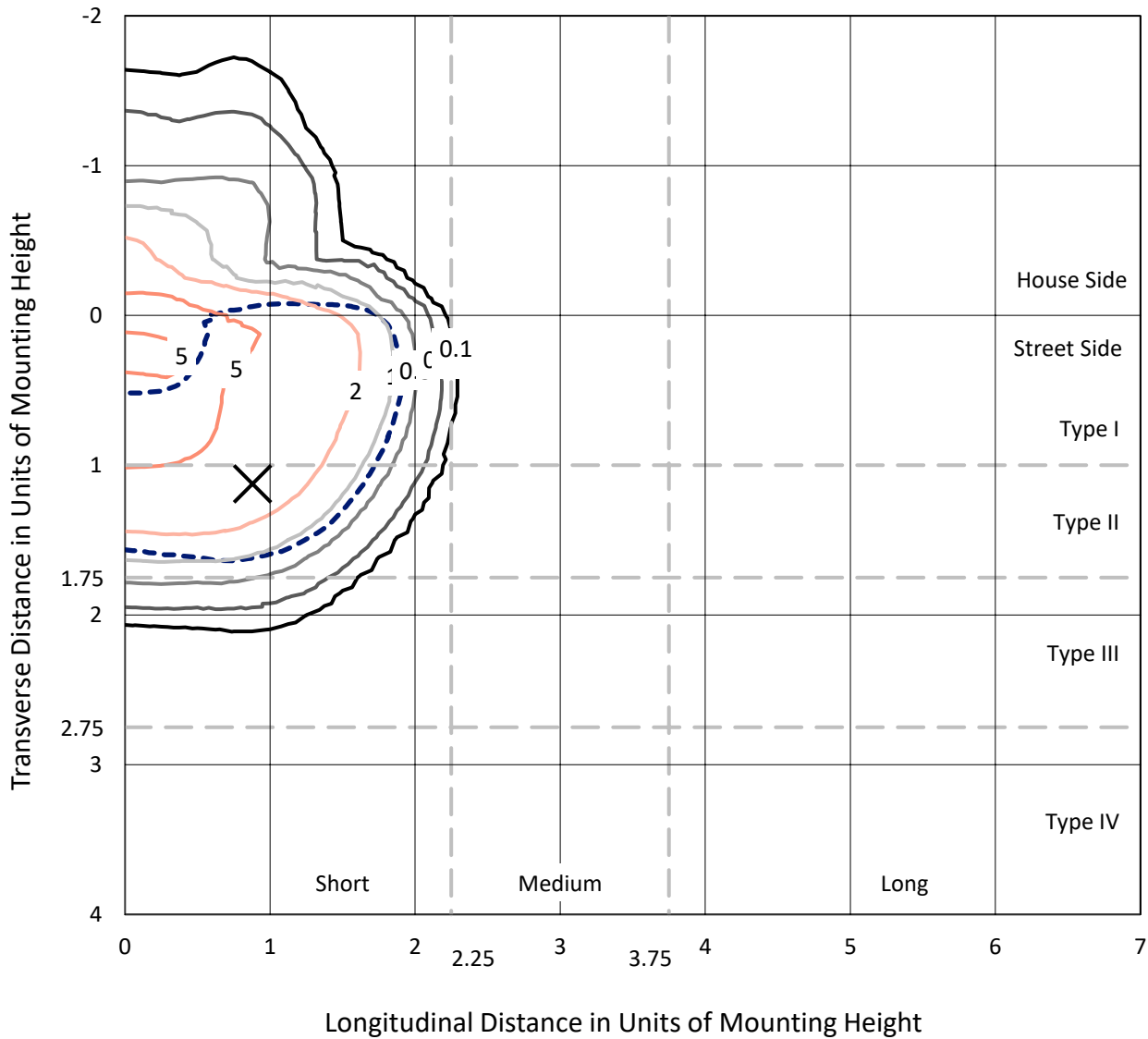
Lumens per Lamp: N/A  
Luminaire Lumens: 15277.2 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

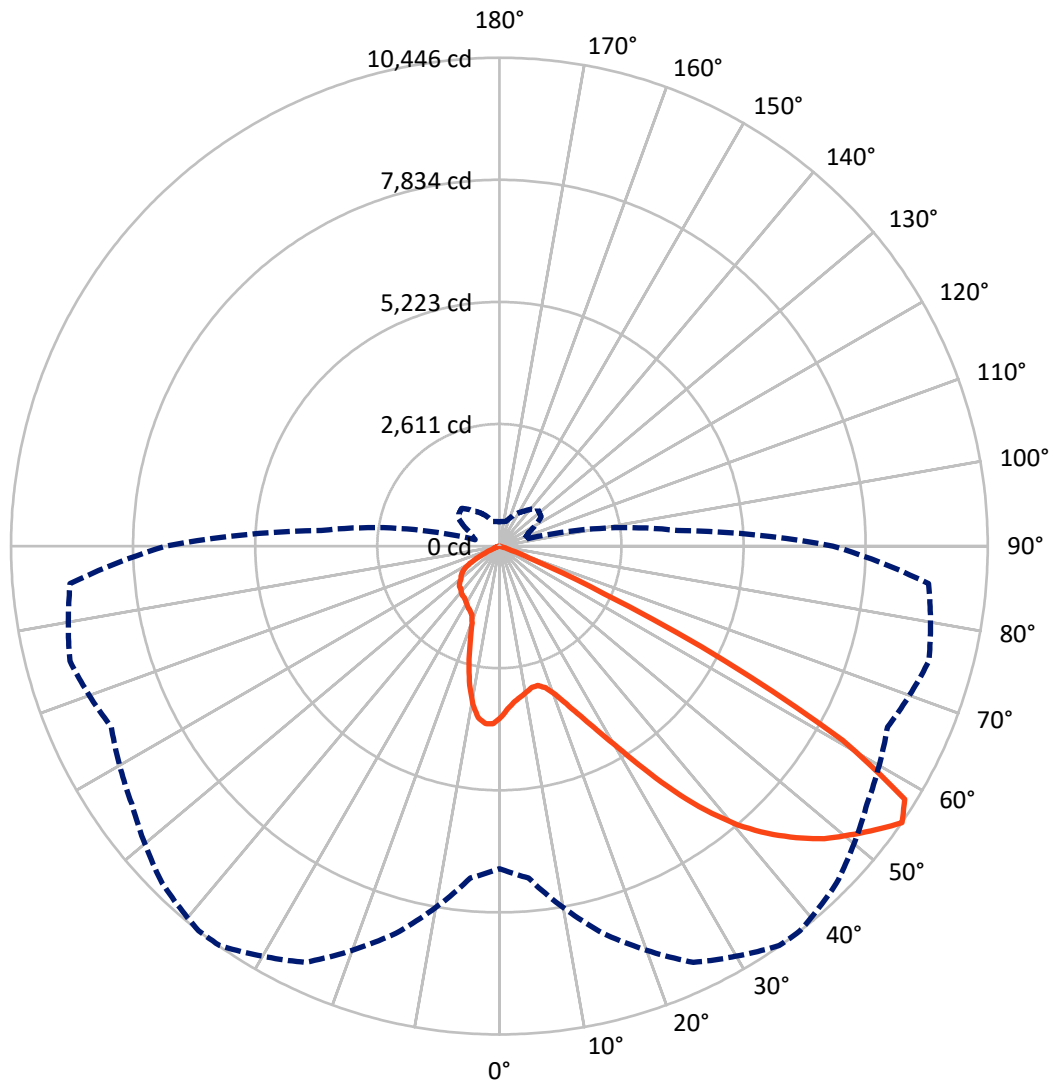
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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
<b>House Side</b>	Lumens	2976.5	0.0	2976.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	12300.7	0.0	12300.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	15277.2	0.0	15277.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.7	2.2
10°-20°	912.0	6.0
20°-30°	1565.0	10.2
30°-40°	2595.6	17.0
40°-50°	3815.6	25.0
50°-60°	4458.7	29.2
60°-70°	1511.3	9.9
70°-80°	77.3	0.5
80°-90°	3.0	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°	15277.2	100.0
0°-180°	15277.2	100.0

**Coefficient of Utilization**



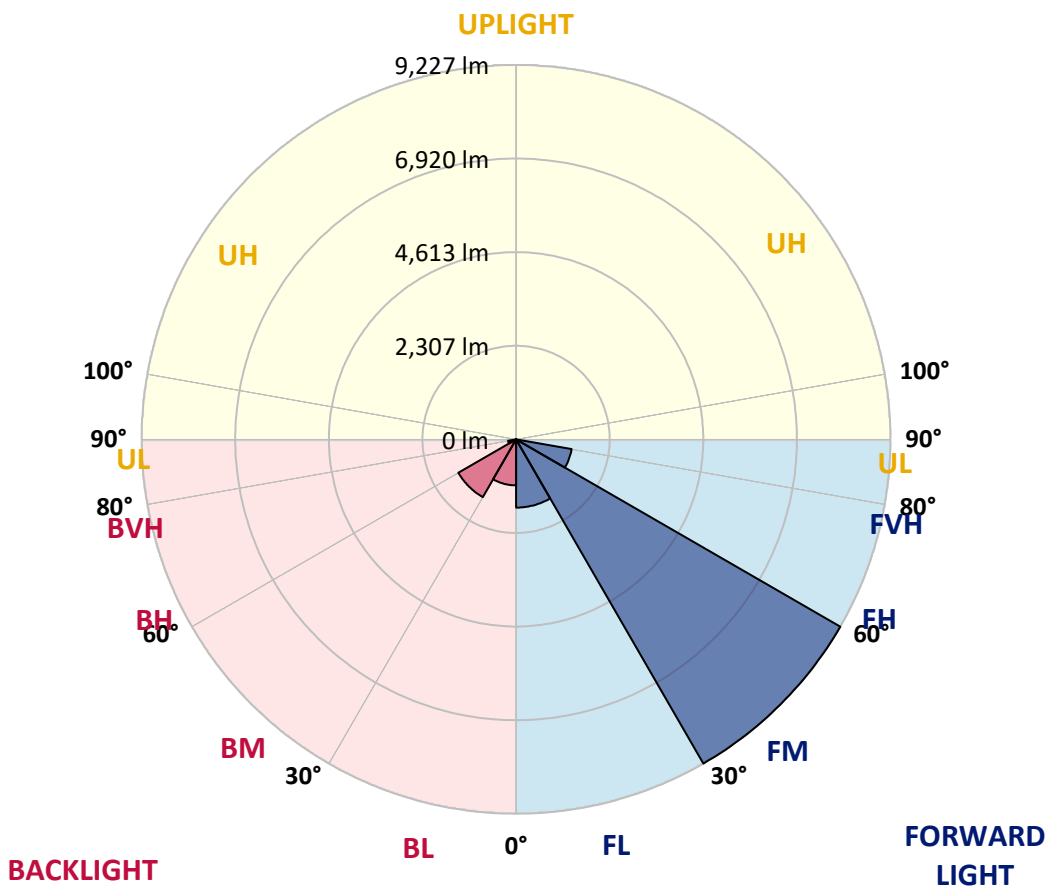
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1681.6	11.0			
FM (30°-60°)	9227.0	60.4			
FH (60°-80°)	1390.5	9.1			G1/1800
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1134.0	7.4	B3/2500		
BM (30°-60°)	1642.9	10.8	B2/2500		
BH (60°-80°)	198.2	1.3	B1/500		G1/500
BVH (80°-90°)	1.4	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°	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6
2.5°	3412.1	3405.1	3419.1	3447.1	3473.3	3482.0	3508.2	3544.8	3567.5	3621.7	3665.3
5°	3258.5	3255.0	3268.9	3293.4	3328.3	3340.5	3380.7	3441.8	3502.9	3597.2	3689.8
7.5°	3118.8	3117.0	3138.0	3192.1	3242.7	3258.5	3307.4	3382.4	3464.5	3609.5	3745.7
10°	2935.4	2937.2	2977.3	3054.2	3146.7	3178.1	3256.7	3365.0	3471.5	3658.4	3846.9
12.5°	2876.0	2879.5	2900.5	2959.9	3061.1	3101.3	3211.3	3375.5	3511.7	3728.2	3977.9
15°	3021.0	3021.0	3003.5	3010.5	3055.9	3092.6	3207.8	3410.4	3579.8	3812.0	4107.1
17.5°	3302.1	3291.6	3248.0	3188.6	3172.9	3185.1	3277.7	3485.5	3675.8	3909.8	4253.8
20°	3682.8	3686.3	3600.7	3476.7	3377.2	3375.5	3431.3	3618.2	3813.8	4026.8	4412.7
22.5°	4143.8	4129.8	4016.3	3846.9	3674.1	3660.1	3682.8	3820.8	4012.8	4211.9	4608.3
25°	4678.1	4671.2	4510.5	4283.5	4054.7	4021.6	4021.6	4157.8	4297.5	4475.6	4842.3
27.5°	5236.9	5236.9	5081.5	4819.6	4515.7	4456.4	4447.6	4608.3	4700.8	4735.8	5039.6
30°	5811.5	5804.5	5650.8	5381.9	5057.1	4996.0	4971.5	5090.3	5156.6	5051.8	5285.8
32.5°	6394.7	6406.9	6251.5	6001.8	5711.9	5671.8	5596.7	5596.7	5650.8	5504.1	5673.5
35°	7021.6	7018.1	6895.9	6726.5	6478.5	6433.1	6309.1	6115.3	6197.4	6132.8	6209.6
37.5°	7575.1	7601.3	7542.0	7416.2	7215.4	7170.0	6965.7	6614.7	6677.6	6778.9	6847.0
40°	8137.4	8158.4	8217.8	8177.6	7924.4	7840.6	7477.4	6901.1	6970.9	7318.4	7514.0
42.5°	8689.2	8699.7	8820.2	8886.6	8547.8	8401.1	7865.0	7075.7	7149.1	7741.0	8083.3
45°	9040.2	9062.9	9262.0	9464.6	9097.9	8897.0	8202.0	7299.2	7330.7	8034.4	8504.1
47.5°	9026.3	9078.6	9452.3	9820.8	9571.1	9354.6	8607.2	7657.2	7604.8	8310.3	8781.8
50°	8745.1	8808.0	9344.1	9929.1	9911.6	9710.8	9057.7	8175.8	8011.7	8554.8	8816.7
52.5°	8161.9	8343.5	9153.7	9943.0	10185.8	10084.5	9614.7	8874.3	8561.8	8905.8	8872.6
55°	6901.1	7124.6	8575.7	9824.3	10433.7	10445.9	10199.7	9602.5	9159.0	9510.0	9216.6
57.5°	5238.7	5416.8	6600.7	8745.1	10023.4	10224.2	10426.7	9986.7	9527.4	9922.1	9296.9
60°	3157.2	3363.2	4133.3	6417.4	8095.5	8437.8	9232.3	9146.8	8593.2	8762.6	7624.0
62.5°	1280.0	1388.3	1908.6	3536.1	5095.5	5415.1	6176.4	6305.6	6169.4	5996.6	4624.0
65°	468.0	511.6	764.8	1461.6	2343.4	2460.4	2862.1	3090.8	3279.4	2792.2	1720.0
67.5°	289.9	317.8	497.7	750.9	852.2	792.8	806.8	962.2	918.5	567.5	307.3
70°	214.8	237.5	389.4	520.4	344.0	265.4	179.9	192.1	172.9	151.9	150.2
72.5°	148.4	169.4	291.6	307.3	132.7	94.3	66.4	92.6	104.8	103.0	106.5
75°	97.8	113.5	183.4	120.5	33.2	26.2	22.7	48.9	62.9	62.9	64.6
77.5°	57.6	66.4	64.6	24.4	7.0	7.0	5.2	8.7	14.0	15.7	19.2
80°	7.0	5.2	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2	5.2
82.5°	1.7	1.7	1.7	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2
85°	0.0	0.0	1.7	1.7	3.5	3.5	3.5	3.5	3.5	5.2	5.2
87.5°	0.0	0.0	1.7	1.7	3.5	3.5	3.5	3.5	3.5	5.2	5.2
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°	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6	3663.6
2.5°	3698.5	3686.3	3736.9	3773.6	3803.3	3817.3	3798.0	3796.3	3796.3	3757.9	3747.4
5°	3742.2	3747.4	3819.0	3850.4	3855.7	3838.2	3794.6	3764.9	3747.4	3707.2	3684.5
7.5°	3826.0	3843.5	3911.6	3906.3	3859.2	3778.8	3663.6	3574.5	3516.9	3454.0	3415.6
10°	3946.5	3979.7	4021.6	3948.2	3798.0	3593.7	3356.3	3186.9	3085.6	3014.0	2970.3
12.5°	4093.2	4126.3	4112.4	3939.5	3626.9	3262.0	2956.4	2711.9	2594.9	2530.3	2484.9
15°	4241.6	4262.5	4171.7	3834.7	3324.8	2834.1	2493.6	2250.9	2107.7	2055.3	2016.9
17.5°	4393.5	4388.3	4182.2	3628.7	2921.4	2352.2	2016.9	1851.0	1810.8	1802.1	1798.6
20°	4552.4	4505.3	4140.3	3333.6	2436.0	1875.5	1685.1	1695.6	1768.9	1803.9	1810.8
22.5°	4734.0	4615.3	4035.5	2933.7	1940.1	1562.9	1582.1	1685.1	1784.6	1831.8	1838.8
25°	4927.9	4716.6	3860.9	2420.3	1529.7	1437.1	1550.7	1669.4	1775.9	1833.5	1840.5
27.5°	5055.3	4741.0	3574.5	1903.4	1313.2	1388.3	1508.7	1622.2	1732.3	1795.1	1803.9
30°	5193.3	4730.5	3185.1	1466.8	1239.8	1346.3	1451.1	1554.1	1655.4	1725.3	1732.3
32.5°	5395.8	4723.6	2710.1	1190.9	1210.1	1313.2	1390.0	1475.6	1545.4	1585.6	1580.3
35°	5661.3	4714.8	2156.6	1073.9	1192.7	1287.0	1348.1	1388.3	1311.4	1287.0	1292.2
37.5°	6001.8	4735.8	1690.4	1025.0	1187.4	1280.0	1332.4	1217.1	1098.4	1053.0	1046.0
40°	6379.0	4789.9	1288.7	1005.8	1204.9	1297.4	1273.0	1082.7	936.0	846.9	827.7
42.5°	6757.9	4849.3	1019.8	998.8	1234.6	1346.3	1175.2	984.9	764.8	714.2	707.2
45°	7039.1	4838.8	881.8	986.6	1260.8	1374.3	1149.0	845.2	682.8	660.1	661.8
47.5°	7180.5	4723.6	806.8	958.7	1271.3	1346.3	1084.4	787.5	626.9	651.3	672.3
50°	7105.4	4424.9	736.9	904.5	1248.6	1309.7	981.4	743.9	599.0	700.2	747.4
52.5°	7014.6	4058.2	660.1	820.7	1194.4	1259.0	941.2	731.7	581.5	675.8	710.7
55°	7135.1	3826.0	534.3	691.5	1087.9	1140.3	909.8	729.9	541.3	525.6	520.4
57.5°	6965.7	3363.2	382.4	497.7	834.7	902.8	887.1	717.7	480.2	478.5	485.5
60°	5383.6	2051.8	261.9	316.1	511.6	576.3	805.0	686.3	413.9	380.7	382.4
62.5°	3059.4	873.1	179.9	195.6	261.9	310.8	614.7	623.4	382.4	363.2	382.4
65°	1065.2	312.6	139.7	131.0	144.9	165.9	352.7	482.0	347.5	314.3	317.8
67.5°	220.0	155.4	124.0	108.3	108.3	108.3	179.9	300.4	286.4	249.7	253.2
70°	139.7	132.7	108.3	92.6	89.1	82.1	103.0	165.9	197.3	181.6	183.4
72.5°	103.0	101.3	85.6	75.1	66.4	59.4	64.6	82.1	101.3	104.8	106.5
75°	62.9	64.6	55.9	47.1	41.9	36.7	38.4	38.4	38.4	34.9	38.4
77.5°	19.2	21.0	17.5	14.0	12.2	12.2	12.2	10.5	8.7	5.2	5.2
80°	5.2	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0
82.5°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0	0.0
85°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	0.0	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	3.5	3.5	1.7	1.7	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)