

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: P641216

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-740-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

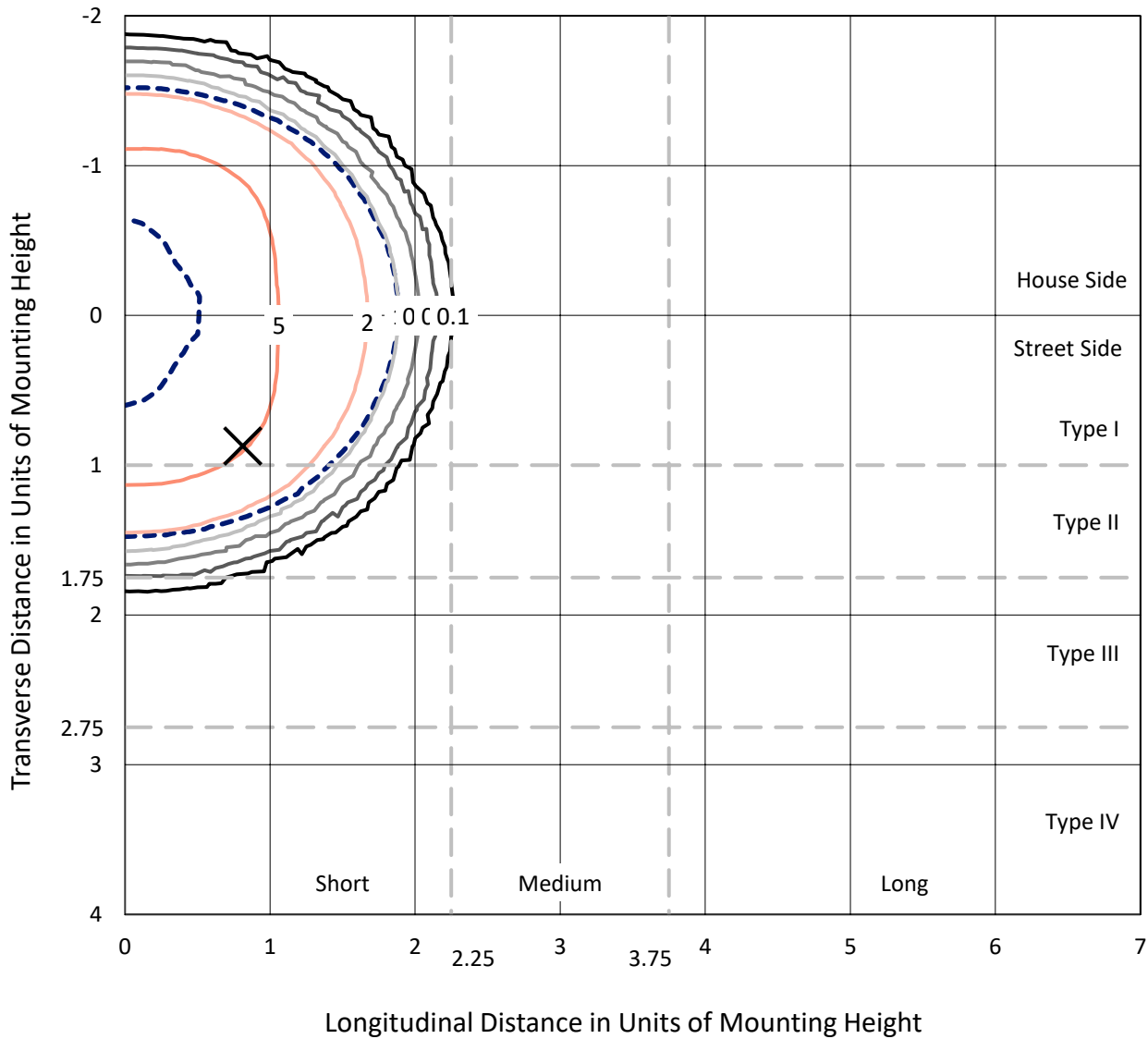
Lumens per Lamp: N/A  
Luminaire Lumens: 27051.6 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

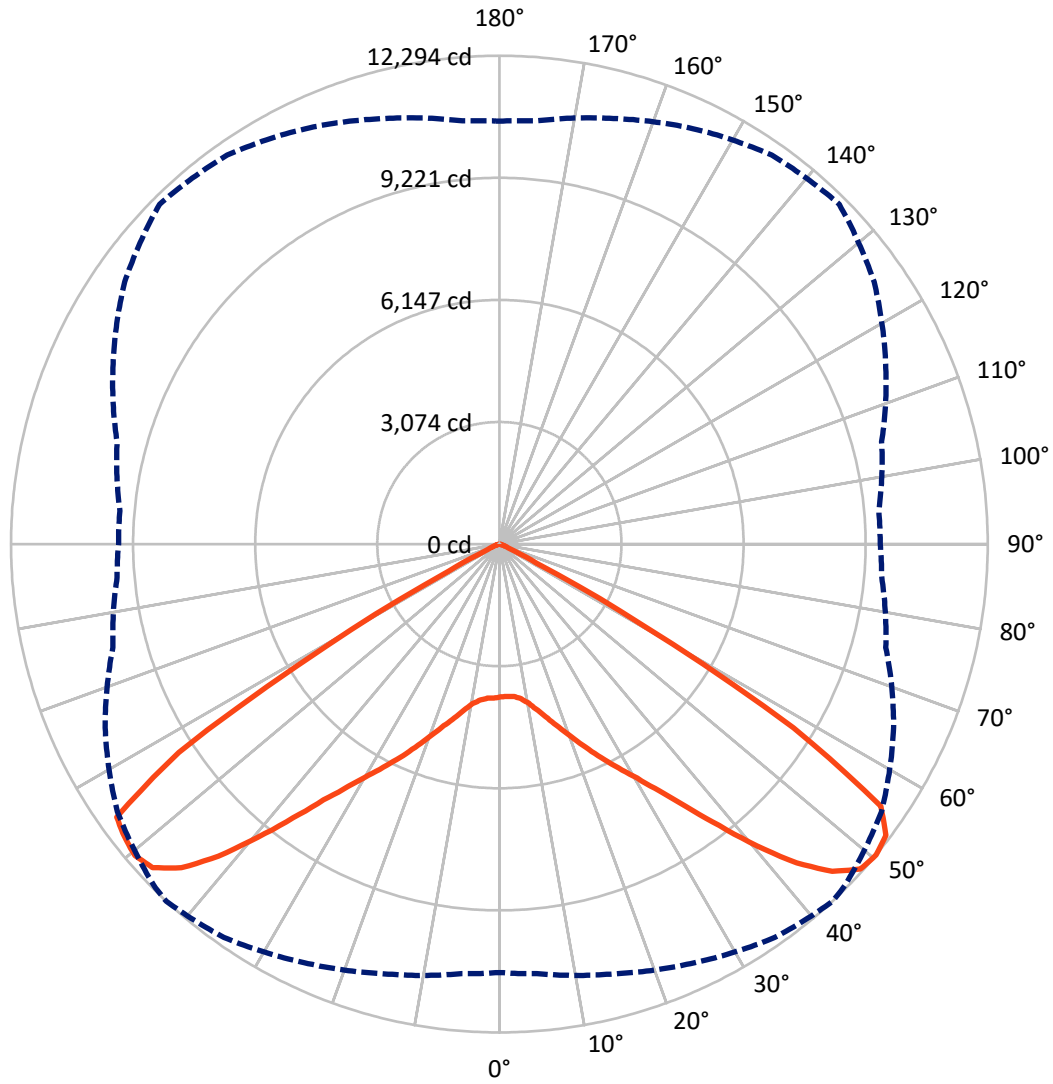
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13525.5	0.0	13525.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13526.1	0.0	13526.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27051.6	0.0	27051.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.9	1.4
10°-20°	1303.9	4.8
20°-30°	2638.1	9.8
30°-40°	4894.5	18.1
40°-50°	8124.6	30.0
50°-60°	8291.5	30.7
60°-70°	1359.7	5.0
70°-80°	59.5	0.2
80°-90°	0.8	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°	27051.6	100.0
0°-180°	27051.6	100.0

**Coefficient of Utilization**



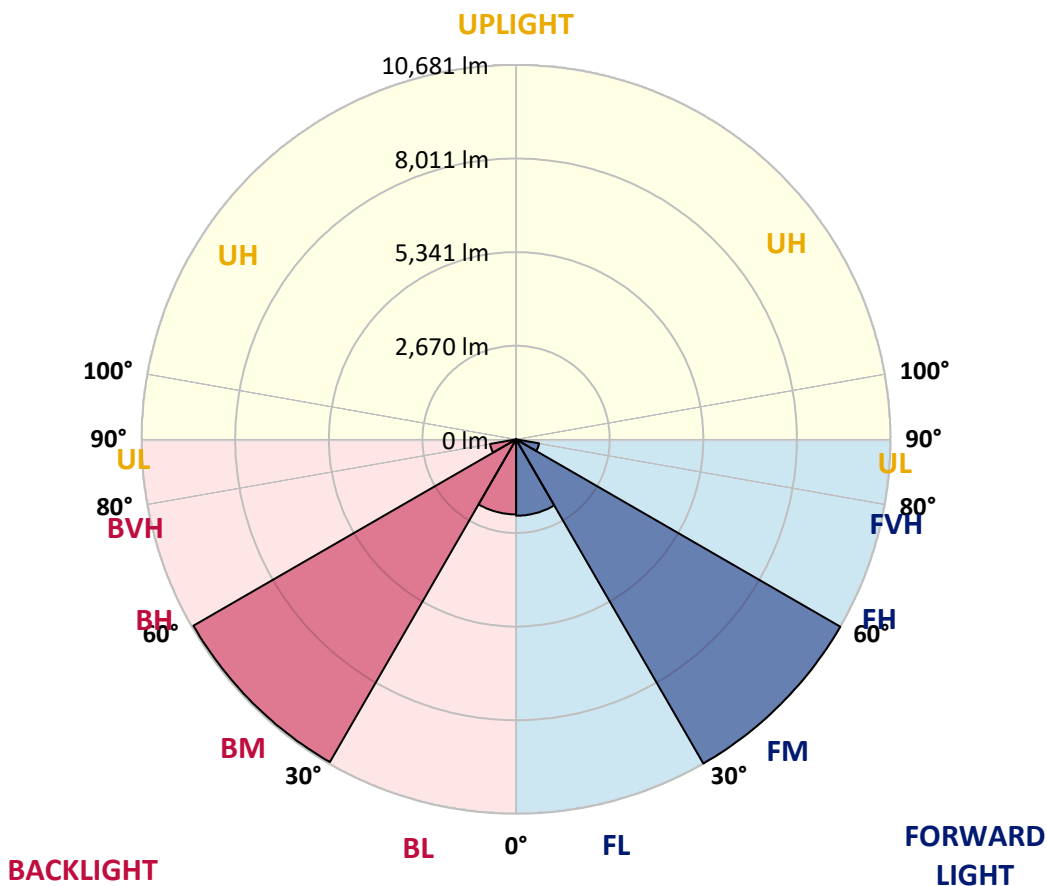
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.4	8.1			
FM (30°-60°)	10681.3	39.5			
FH (60°-80°)	665.2	2.5			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	2141.5	7.9	B3/2500		
BM (30°-60°)	10629.4	39.3	B5		
BH (60°-80°)	754.1	2.8	B2/1000		G1/1800
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7
2.5°	3775.9	3784.8	3796.8	3808.8	3823.7	3838.7	3847.7	3874.6	3868.6	3892.5	3892.5
5°	3734.0	3742.9	3757.9	3784.8	3817.7	3850.7	3874.6	3928.4	3958.4	4006.2	4024.2
7.5°	3754.9	3766.9	3784.8	3826.7	3877.6	3928.4	3955.4	4042.1	4102.0	4191.7	4242.6
10°	3823.7	3835.7	3865.6	3937.4	4003.2	4075.1	4108.0	4218.7	4314.4	4437.1	4508.9
12.5°	3901.5	3916.5	3976.3	4084.0	4197.7	4293.5	4338.3	4461.0	4559.7	4697.4	4811.1
15°	3982.3	4006.2	4099.0	4257.6	4419.1	4547.8	4595.7	4727.3	4826.0	4972.6	5101.3
17.5°	4170.8	4197.7	4302.4	4473.0	4694.4	4844.0	4885.9	5023.5	5098.3	5197.0	5331.7
20°	4407.2	4458.0	4586.7	4793.1	5035.5	5179.1	5209.0	5343.6	5337.7	5379.5	5496.2
22.5°	4700.4	4736.3	4876.9	5122.2	5394.5	5553.1	5621.9	5678.7	5603.9	5568.0	5642.8
25°	5005.6	5047.4	5200.0	5469.3	5774.5	5957.0	6013.8	6058.7	5939.0	5804.4	5813.4
27.5°	5400.5	5430.4	5580.0	5867.2	6172.4	6378.9	6429.7	6507.5	6348.9	6133.5	6073.7
30°	5870.2	5900.1	6058.7	6360.9	6663.1	6839.6	6917.4	7013.2	6839.6	6570.3	6501.5
32.5°	6420.7	6450.7	6654.1	6965.3	7213.6	7405.1	7479.9	7581.6	7444.0	7141.8	7064.0
35°	7079.0	7096.9	7336.3	7674.4	7937.7	8123.2	8174.0	8293.7	8141.1	7838.9	7797.1
37.5°	7841.9	7862.9	8123.2	8515.1	8784.4	8990.8	9071.6	9104.5	8919.0	8580.9	8548.0
40°	8679.7	8748.5	9002.8	9424.7	9726.9	9987.2	10059.0	9948.3	9688.0	9227.2	9167.4
42.5°	9553.3	9613.2	9897.4	10355.2	10705.2	10971.5	10974.5	10735.2	10292.3	9655.1	9565.3
45°	10280.4	10304.3	10672.3	11133.1	11563.9	11752.4	11770.4	11336.5	10669.3	9903.4	9711.9
47.5°	10780.0	10818.9	11139.1	11581.9	12057.6	12228.1	12192.2	11650.7	10848.9	10065.0	9747.8
50°	10786.0	10851.8	11198.9	11626.8	12087.5	12294.0	12243.1	11740.5	10950.6	10070.9	9661.0
52.5°	9831.6	9939.3	10504.8	11124.1	11830.2	12183.3	12195.2	11857.1	10911.7	9975.2	9583.3
55°	7417.1	7533.8	8245.8	9302.0	10666.3	11650.7	11821.2	11719.5	10866.8	10017.1	9720.9
57.5°	3925.5	3835.7	4230.6	5277.8	6992.2	8733.5	9233.2	10047.0	10367.1	10067.9	9975.2
60°	855.7	912.5	1214.7	1636.6	2728.7	4108.0	4595.7	5989.9	7647.5	8383.5	8916.0
62.5°	368.0	362.0	377.0	427.9	625.3	1041.2	1271.6	2076.4	3276.2	4499.9	5328.7
65°	302.2	305.2	317.1	317.1	296.2	299.2	314.2	475.7	765.9	1074.1	1442.1
67.5°	227.4	230.4	251.3	257.3	242.3	215.4	212.4	179.5	188.5	236.4	245.3
70°	143.6	143.6	155.6	161.6	161.6	149.6	146.6	128.7	125.7	143.6	161.6
72.5°	77.8	77.8	83.8	86.8	83.8	80.8	80.8	77.8	74.8	86.8	110.7
75°	32.9	32.9	35.9	35.9	32.9	32.9	32.9	32.9	32.9	38.9	59.8
77.5°	6.0	9.0	12.0	9.0	6.0	6.0	6.0	9.0	9.0	12.0	18.0
80°	3.0	3.0	6.0	3.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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°	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7	3847.7
2.5°	3913.5	3880.6	3892.5	3898.5	3889.5	3883.6	3850.7	3841.7	3826.7	3802.8	3796.8
5°	4045.1	4018.2	4015.2	3997.3	3955.4	3904.5	3841.7	3814.8	3784.8	3754.9	3748.9
7.5°	4266.5	4233.6	4212.7	4152.8	4057.1	3976.3	3871.6	3814.8	3775.9	3737.0	3728.0
10°	4550.8	4511.9	4452.0	4341.3	4212.7	4096.0	3973.3	3898.5	3838.7	3784.8	3781.8
12.5°	4853.0	4811.1	4703.4	4562.7	4407.2	4299.4	4143.9	4039.1	3949.4	3868.6	3859.6
15°	5170.1	5119.2	4972.6	4805.1	4661.5	4550.8	4380.2	4212.7	4075.1	3958.4	3946.4
17.5°	5412.5	5349.6	5176.1	5050.4	4933.7	4820.0	4628.6	4407.2	4224.6	4084.0	4051.1
20°	5565.0	5505.2	5340.7	5271.8	5218.0	5137.2	4909.8	4679.4	4476.0	4302.4	4272.5
22.5°	5711.7	5639.8	5496.2	5496.2	5538.1	5505.2	5259.9	4996.6	4757.2	4556.8	4511.9
25°	5876.2	5819.4	5717.6	5801.4	5906.1	5903.1	5651.8	5322.7	5047.4	4823.0	4778.2
27.5°	6115.6	6058.7	6022.8	6181.4	6313.0	6304.1	6028.8	5672.8	5382.5	5161.1	5119.2
30°	6537.4	6483.6	6444.7	6636.2	6803.7	6740.9	6438.7	6094.6	5801.4	5550.1	5520.2
32.5°	7099.9	7043.1	6992.2	7183.7	7333.3	7252.5	6965.3	6642.2	6304.1	6058.7	5998.9
35°	7838.9	7719.3	7668.4	7895.8	7958.6	7868.9	7593.6	7309.4	6950.3	6669.1	6630.2
37.5°	8601.9	8461.3	8425.4	8622.8	8724.6	8691.6	8368.5	8072.3	7683.4	7372.2	7327.3
40°	9254.1	9125.5	9062.7	9370.8	9601.2	9622.1	9331.9	8969.9	8512.1	8189.0	8108.2
42.5°	9637.1	9526.4	9511.4	9990.2	10367.1	10636.4	10289.4	9915.4	9433.7	9068.6	9002.8
45°	9723.9	9652.1	9777.7	10406.0	10992.5	11483.1	11186.9	10792.0	10271.4	9885.4	9822.6
47.5°	9714.9	9691.0	9915.4	10621.5	11363.5	11967.8	11821.2	11375.4	10872.8	10468.9	10409.0
50°	9586.2	9589.2	9963.2	10729.2	11513.1	12099.5	11952.9	11540.0	11091.2	10693.3	10645.4
52.5°	9535.4	9517.4	9873.5	10696.3	11665.7	12039.7	11710.5	11246.8	10747.1	10256.4	10184.6
55°	9714.9	9670.0	9885.4	10669.3	11683.6	12006.7	11139.1	10133.8	9110.5	8530.1	8482.2
57.5°	9984.2	9936.3	10038.0	10471.9	10747.1	9984.2	8198.0	6576.3	5523.2	5077.4	4882.9
60°	8916.0	8883.1	8805.3	8281.7	7102.9	5358.6	3650.2	2327.7	1672.5	1352.4	1352.4
62.5°	5532.1	5487.3	5065.4	3763.9	2734.7	1582.7	870.7	544.5	412.9	386.0	383.0
65°	1552.8	1543.9	1277.6	903.6	574.5	356.0	314.2	320.1	314.2	305.2	302.2
67.5°	233.4	257.3	257.3	209.4	200.5	224.4	263.3	281.2	266.3	251.3	245.3
70°	149.6	161.6	155.6	134.6	143.6	167.5	188.5	191.5	182.5	167.5	164.6
72.5°	104.7	116.7	95.7	86.8	89.8	98.7	107.7	107.7	104.7	98.7	92.8
75°	62.8	62.8	44.9	41.9	41.9	44.9	44.9	50.9	50.9	47.9	44.9
77.5°	20.9	23.9	15.0	12.0	12.0	12.0	15.0	18.0	18.0	15.0	12.0
80°	3.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	3.0
82.5°	3.0	3.0	3.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
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)