

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: P638777

Luminaire Tested: GWS-SA4F-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-740-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

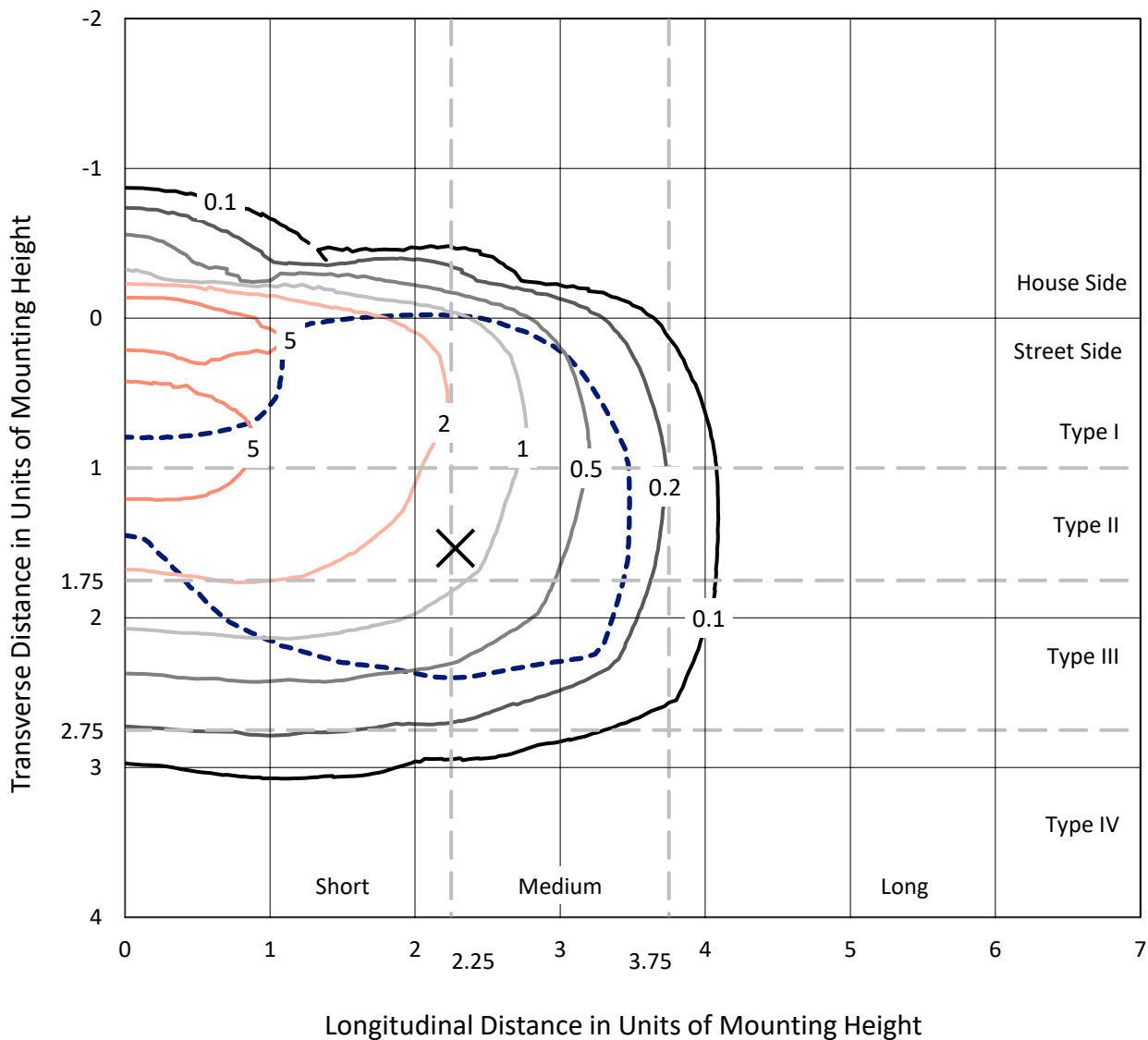
Lumens per Lamp: N/A  
Luminaire Lumens: 26635.2 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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

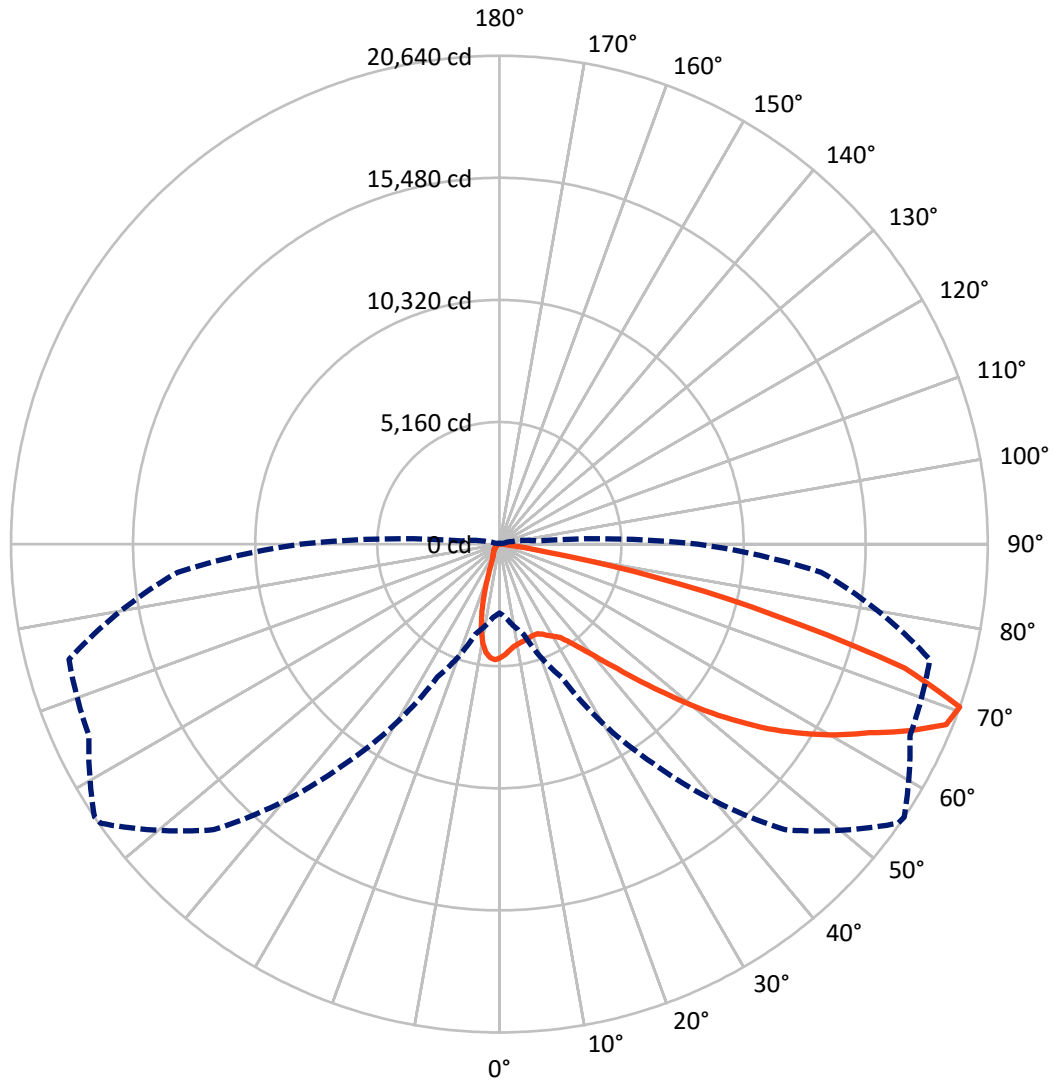
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P638777  
CATALOG NUMBER: GWS-SA4F-740-U-T3R-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2392.4	0.0	2392.4
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	24242.9	0.0	24242.9
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	26635.2	0.0	26635.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.3	1.5
10°-20°	927.4	3.5
20°-30°	1469.0	5.5
30°-40°	2533.3	9.5
40°-50°	4277.9	16.1
50°-60°	6285.6	23.6
60°-70°	7452.0	28.0
70°-80°	3177.8	11.9
80°-90°	99.8	0.4
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°	26635.2	100.0
0°-180°	26635.2	100.0

**Coefficient of Utilization**



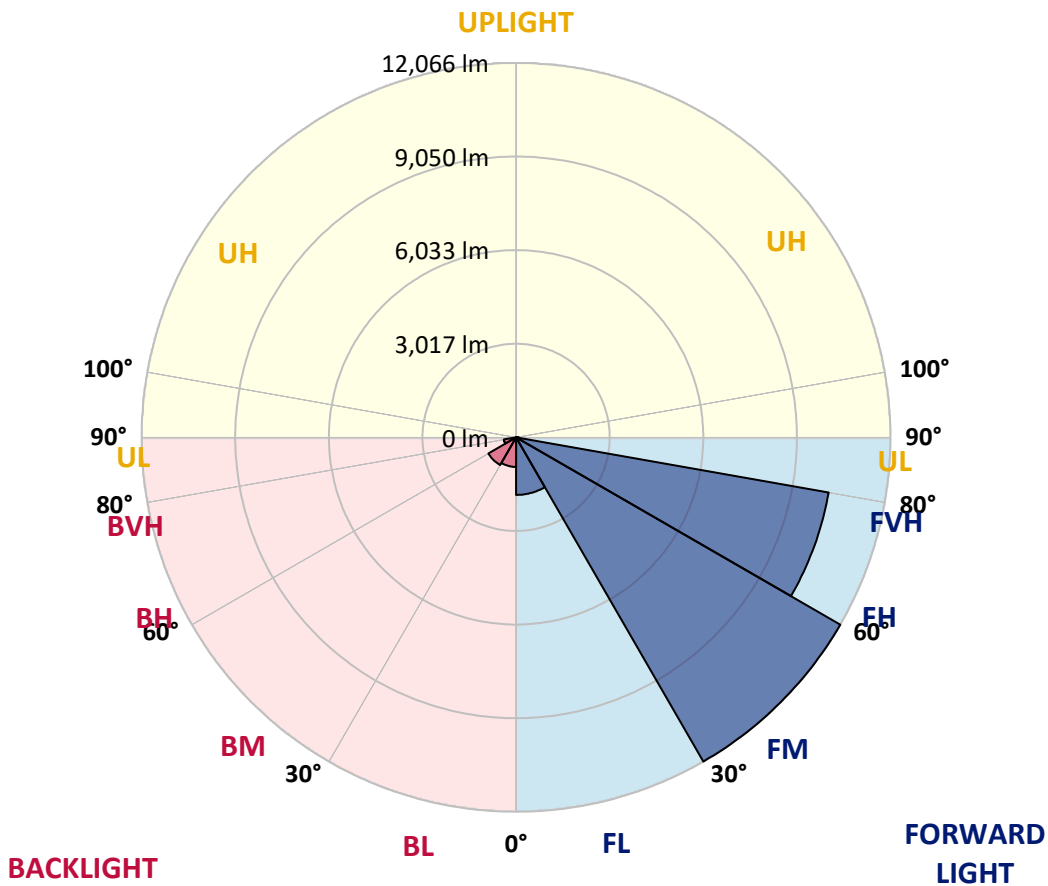
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CATALOG NUMBER: GWS-SA4F-740-U-T3R-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.0	7.0			
FM (30°-60°)	12066.5	45.3			
FH (60°-80°)	10230.8	38.4			G4/12000
FVH (80°-90°)	89.6	0.3			G1/100
BL (0°-30°)	952.8	3.6	B2/1000		
BM (30°-60°)	1030.4	3.9	B2/2500		
BH (60°-80°)	399.0	1.5	B1/500		G1/500
BVH (80°-90°)	10.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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CATALOG NUMBER: GWS-SA4F-740-U-T3R-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6
2.5°	4470.9	4463.6	4468.4	4505.0	4573.3	4605.0	4658.7	4668.4	4712.3	4768.4	4790.4
5°	4180.6	4156.2	4168.4	4219.6	4297.7	4385.5	4485.5	4512.3	4622.1	4746.5	4839.2
7.5°	3914.8	3887.9	3917.2	3997.7	4107.5	4202.6	4351.4	4368.4	4544.0	4763.6	4931.9
10°	3497.7	3505.0	3563.5	3705.0	3873.3	4070.9	4270.9	4295.3	4512.3	4819.7	5080.7
12.5°	3178.2	3161.1	3224.5	3385.5	3622.1	3909.9	4209.9	4241.6	4514.8	4905.0	5270.9
15°	3029.4	3024.5	3051.3	3168.4	3397.7	3736.7	4153.8	4195.3	4546.5	4983.1	5451.4
17.5°	3034.2	3026.9	3024.5	3092.8	3263.5	3607.4	4092.8	4146.5	4573.3	5068.5	5641.6
20°	3246.4	3212.3	3151.3	3119.6	3222.1	3524.5	4051.4	4112.3	4612.3	5158.7	5844.1
22.5°	3690.4	3702.6	3539.1	3368.4	3319.6	3534.3	4046.5	4117.2	4697.7	5300.2	6092.9
25°	4578.2	4558.7	4256.2	3873.3	3607.4	3646.5	4131.8	4217.2	4866.0	5502.6	6327.0
27.5°	5690.4	5707.5	5292.9	4683.1	4127.0	3878.2	4287.9	4373.3	5061.1	5629.5	6483.1
30°	6902.7	6885.6	6441.7	5766.0	4863.6	4263.6	4444.0	4519.7	5158.7	5697.7	6644.1
32.5°	8049.0	8010.0	7571.0	6863.6	5802.6	4870.9	4658.7	4702.6	5288.0	5846.5	6861.2
35°	9027.1	9024.7	8641.7	7888.1	6768.5	5631.9	5027.0	5063.6	5529.4	6083.1	7180.7
37.5°	10036.9	10002.8	9573.5	8885.7	7761.2	6466.1	5590.4	5575.8	5909.9	6431.9	7573.4
40°	10866.2	10844.3	10515.0	9854.0	8793.0	7388.0	6273.4	6229.5	6361.2	6914.9	8119.8
42.5°	11480.9	11483.3	11380.9	10978.4	9885.7	8453.9	7131.9	7063.6	7061.2	7644.2	8841.7
45°	11946.7	11978.4	12132.1	12071.1	11176.0	9695.4	8232.0	8161.2	8041.7	8590.5	9668.6
47.5°	12163.8	12205.3	12668.7	12912.6	12305.3	10927.2	9541.8	9393.0	9158.8	9849.1	10593.0
50°	12141.9	12215.0	12861.4	13602.9	13329.7	12176.0	10968.6	10897.9	10515.0	11180.8	11507.7
52.5°	11644.3	11800.4	12873.6	14022.4	14117.5	13327.3	12444.3	12312.6	12127.2	12571.1	12366.3
55°	10293.0	10483.3	12358.9	14156.6	14732.2	14332.2	13888.3	13780.9	13473.6	13883.4	13115.1
57.5°	9558.8	9722.3	11276.0	14090.7	15254.2	15261.5	15173.7	15085.9	14832.2	15181.0	13993.1
60°	9117.4	9280.8	10697.9	13849.2	15727.3	16242.0	16381.0	16371.3	16005.4	16656.6	15022.4
62.5°	8471.0	8695.4	10095.4	13222.4	16063.9	17207.9	17627.4	17561.5	17154.2	18193.3	16042.0
65°	7166.1	7361.2	8861.3	12188.2	15866.4	18007.9	18978.7	19012.8	18542.1	19639.7	16846.9
67.5°	5024.6	5168.5	6658.8	10017.4	14524.9	18271.3	20361.6	20359.2	19556.7	20381.1	16490.8
70°	2912.3	3109.9	3934.3	6192.9	11300.4	17073.7	20569.0	20639.7	19144.5	18832.3	13646.8
72.5°	1126.9	1290.3	2229.3	3290.4	5892.9	13078.5	17693.3	17900.6	16022.5	14527.3	9497.9
75°	336.6	375.6	1048.8	1751.3	2365.9	6317.3	11978.4	12037.0	10990.6	9061.3	4868.5
77.5°	251.2	278.1	458.6	885.4	829.3	1914.7	6197.8	6768.5	5834.3	3236.7	1341.5
80°	170.7	202.4	326.8	431.7	307.3	509.8	1741.5	1912.3	1780.5	726.9	336.6
82.5°	75.6	97.6	231.7	217.1	112.2	146.3	536.6	570.8	368.3	219.5	117.1
85°	7.3	9.8	87.8	95.1	41.5	34.1	112.2	112.2	80.5	75.6	48.8
87.5°	0.0	0.0	2.4	4.9	4.9	7.3	9.8	12.2	14.6	19.5	24.4
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°	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6
2.5°	4846.5	4817.2	4853.8	4883.1	4890.4	4836.7	4805.0	4758.7	4748.9	4751.4	4739.2
5°	4912.4	4897.7	4924.5	4892.8	4809.9	4653.8	4519.7	4370.9	4290.4	4244.0	4239.2
7.5°	5034.3	5027.0	4997.7	4853.8	4595.3	4248.9	3914.8	3587.9	3385.5	3312.3	3300.1
10°	5214.8	5200.2	5080.7	4739.2	4187.9	3522.1	2961.1	2492.8	2207.4	2124.5	2022.0
12.5°	5422.1	5392.9	5131.9	4492.8	3573.3	2651.3	1951.3	1426.9	1180.5	1107.4	1107.4
15°	5622.1	5558.7	5102.6	4085.5	2817.2	1724.4	1090.3	824.4	748.8	729.3	729.3
17.5°	5827.0	5705.1	4988.0	3529.4	1946.4	1019.5	726.9	675.6	665.9	668.3	670.8
20°	6019.7	5829.5	4785.5	2861.1	1241.5	712.2	651.2	639.0	634.2	639.0	636.6
22.5°	6229.5	5944.1	4478.2	2131.8	807.3	641.5	619.5	609.8	604.9	612.2	612.2
25°	6436.8	6027.0	4070.9	1434.2	641.5	597.6	585.4	575.6	570.8	573.2	573.2
27.5°	6544.1	5995.3	3536.7	914.7	575.6	553.7	541.5	529.3	522.0	519.5	522.0
30°	6617.3	5897.8	2883.0	651.2	522.0	495.1	482.9	473.2	453.7	441.5	446.4
32.5°	6731.9	5800.2	2173.2	546.4	478.1	436.6	417.1	392.7	365.9	353.7	353.7
35°	6868.5	5666.0	1524.4	492.7	431.7	387.8	351.2	309.8	278.1	268.3	268.3
37.5°	7049.0	5539.2	1014.7	456.1	392.7	346.4	295.1	246.3	212.2	207.3	204.9
40°	7319.7	5431.9	714.7	429.3	358.5	302.4	241.5	190.3	165.9	158.5	158.5
42.5°	7671.0	5322.1	565.9	402.5	329.3	261.0	192.7	151.2	131.7	126.8	124.4
45°	8105.1	5192.9	492.7	378.1	300.0	217.1	153.7	126.8	112.2	107.3	107.3
47.5°	8575.9	5017.2	458.6	346.4	265.9	175.6	129.3	109.8	102.4	100.0	97.6
50°	9039.3	4780.6	429.3	317.1	226.8	143.9	112.2	100.0	95.1	92.7	92.7
52.5°	9444.2	4505.0	392.7	282.9	185.4	124.4	100.0	92.7	87.8	82.9	80.5
55°	9790.6	4205.0	346.4	243.9	151.2	109.8	92.7	85.4	80.5	75.6	73.2
57.5°	10236.9	4034.3	278.1	197.6	124.4	97.6	85.4	78.1	73.2	65.9	65.9
60°	10732.1	3909.9	207.3	156.1	107.3	90.2	78.1	70.7	65.9	58.5	58.5
62.5°	11129.6	3724.5	163.4	126.8	92.7	80.5	70.7	63.4	58.5	51.2	51.2
65°	11280.9	3341.6	134.2	100.0	75.6	70.7	63.4	58.5	51.2	43.9	43.9
67.5°	10597.9	2575.7	112.2	80.5	63.4	61.0	56.1	53.7	43.9	39.0	36.6
70°	8393.0	1570.8	92.7	65.9	53.7	51.2	51.2	46.3	39.0	36.6	34.1
72.5°	5751.4	809.8	75.6	53.7	46.3	46.3	43.9	41.5	36.6	34.1	34.1
75°	2987.9	270.7	58.5	41.5	36.6	39.0	39.0	36.6	34.1	34.1	31.7
77.5°	856.1	122.0	43.9	31.7	29.3	29.3	31.7	31.7	31.7	29.3	29.3
80°	222.0	70.7	31.7	24.4	24.4	24.4	24.4	26.8	29.3	26.8	26.8
82.5°	90.2	39.0	22.0	19.5	19.5	19.5	19.5	22.0	24.4	24.4	24.4
85°	56.1	19.5	17.1	17.1	17.1	14.6	14.6	17.1	17.1	19.5	19.5
87.5°	34.1	14.6	14.6	14.6	14.6	12.2	12.2	12.2	12.2	12.2	12.2
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)