

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: P637387

Luminaire Tested: GWS-SA4C-760-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-760-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

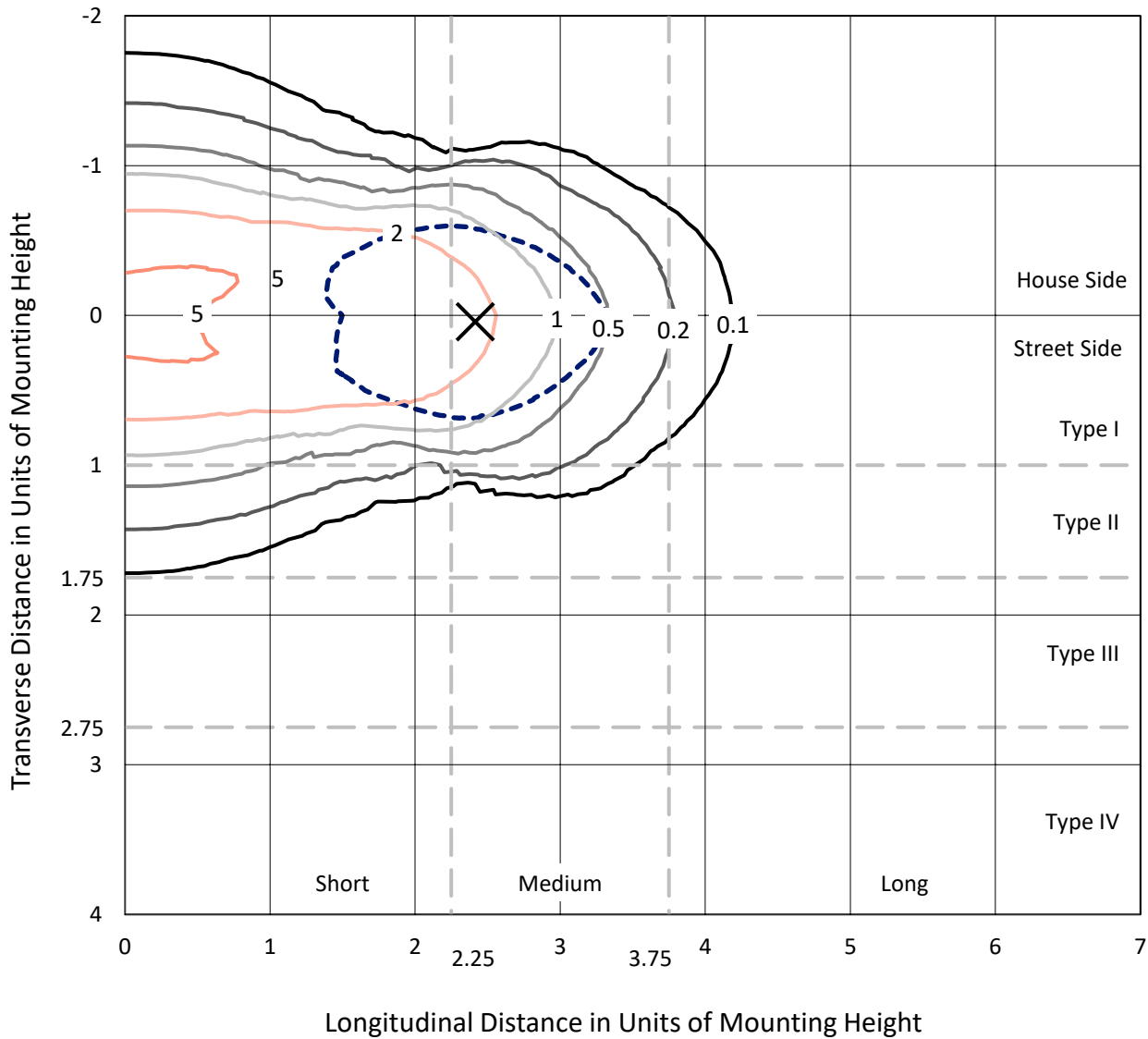
Lumens per Lamp: N/A  
Luminaire Lumens: 19548.5 lumens  
Efficiency: N/A  
Efficacy: 152.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

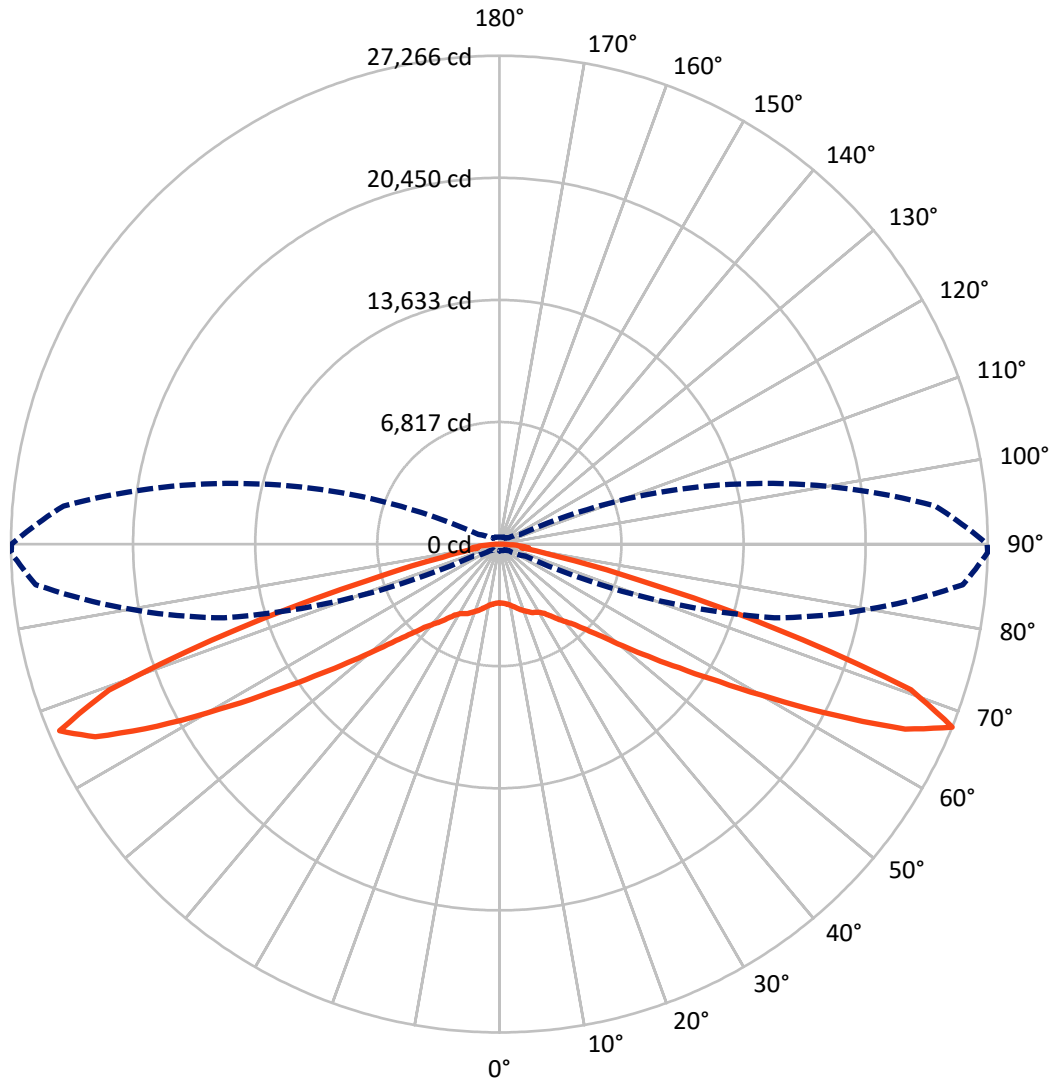
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9688.6	0.0	9688.6
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	9859.9	0.0	9859.9
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	19548.5	0.0	19548.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.1	1.7
10°-20°	1071.7	5.5
20°-30°	1811.6	9.3
30°-40°	2486.2	12.7
40°-50°	3170.4	16.2
50°-60°	3977.7	20.3
60°-70°	4797.5	24.5
70°-80°	1735.6	8.9
80°-90°	168.8	0.9
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°	19548.5	100.0
0°-180°	19548.5	100.0

**Coefficient of Utilization**



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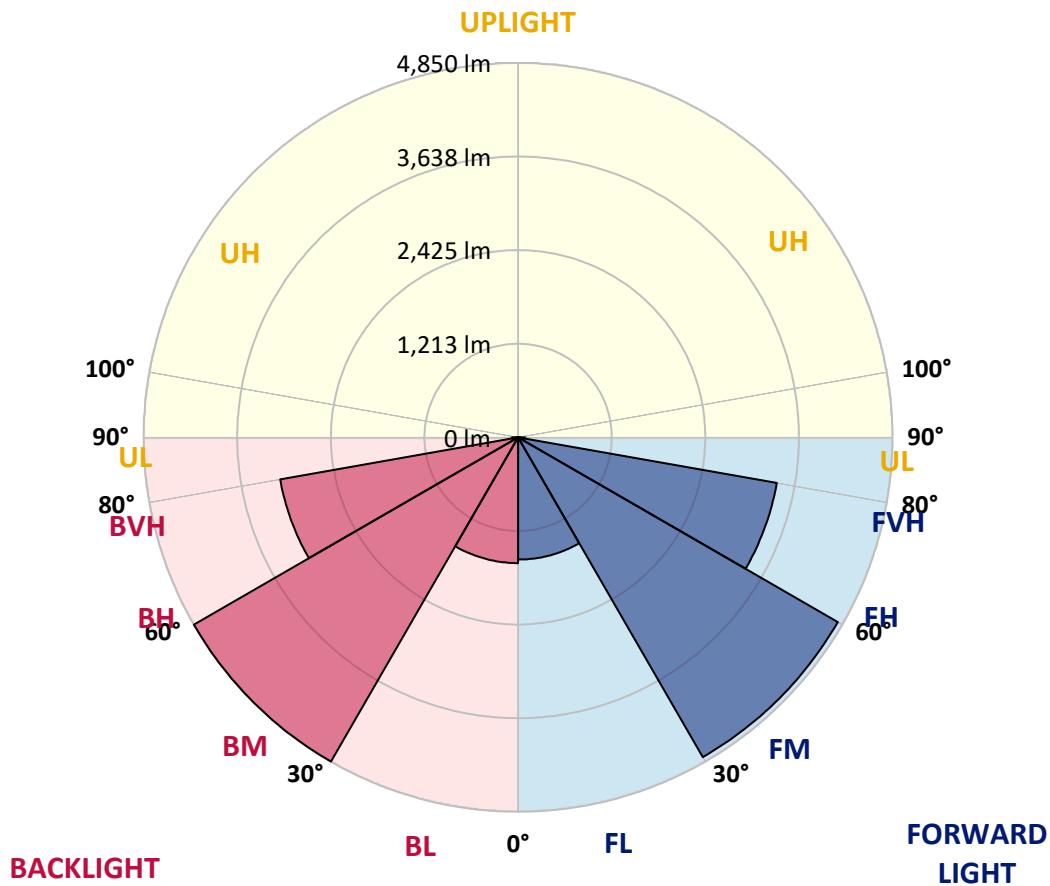
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1583.3	8.1			
FM (30°-60°)	4783.9	24.5			
FH (60°-80°)	3403.7	17.4			G2/5000
FVH (80°-90°)	89.1	0.5			G1/100
BL (0°-30°)	1629.1	8.3	B3/2500		
BM (30°-60°)	4850.4	24.8	B3/5000		
BH (60°-80°)	3129.4	16.0	B4/5000		G4/5000
BVH (80°-90°)	79.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1
2.5°	3290.9	3288.1	3281.1	3302.1	3297.9	3299.3	3307.7	3302.1	3292.3	3275.4	3299.3
5°	3383.5	3382.1	3366.7	3379.3	3365.3	3355.5	3354.1	3340.0	3328.8	3310.5	3335.8
7.5°	3473.4	3472.0	3459.4	3481.8	3470.6	3459.4	3446.7	3418.6	3392.0	3365.3	3393.4
10°	3542.2	3540.8	3538.0	3570.3	3573.1	3577.3	3571.7	3523.9	3477.6	3445.3	3473.4
12.5°	3581.5	3585.7	3592.7	3651.7	3681.2	3709.3	3716.3	3677.0	3599.8	3553.4	3587.1
15°	3554.8	3563.3	3598.4	3705.1	3786.5	3849.7	3876.3	3844.0	3744.4	3667.1	3705.1
17.5°	3427.1	3434.1	3502.9	3665.7	3845.5	3991.5	4035.0	4015.3	3904.4	3810.4	3846.9
20°	3250.2	3265.6	3340.0	3567.5	3835.6	4089.7	4206.3	4199.2	4078.5	3933.9	3977.4
22.5°	3090.1	3108.4	3187.0	3438.3	3769.6	4115.0	4379.0	4397.2	4237.2	4057.4	4092.5
25°	2910.4	2927.3	3028.3	3285.3	3655.9	4095.4	4526.4	4609.2	4416.9	4199.2	4231.5
27.5°	2726.5	2739.1	2838.8	3112.6	3507.1	4058.9	4642.9	4842.3	4593.8	4297.5	4320.0
30°	2565.0	2581.9	2673.1	2939.9	3344.2	3985.8	4738.4	5090.8	4797.3	4408.4	4426.7
32.5°	2409.2	2423.2	2522.9	2770.0	3171.5	3873.5	4824.0	5382.8	5099.2	4614.8	4614.8
35°	2212.6	2237.9	2350.2	2607.2	3008.7	3724.7	4885.8	5722.5	5512.0	4919.5	4920.9
37.5°	2031.5	2045.6	2163.5	2423.2	2837.4	3556.2	4891.4	6074.9	6034.2	5307.0	5309.8
40°	1825.2	1843.4	1969.8	2226.7	2640.9	3379.3	4838.1	6403.5	6581.8	5705.7	5690.3
42.5°	1616.0	1642.6	1763.4	2014.7	2428.9	3163.1	4696.3	6716.6	7276.7	6167.6	6129.7
45°	1413.8	1430.6	1551.4	1788.6	2186.0	2904.8	4468.8	7017.0	8102.3	6869.6	6814.8
47.5°	1186.3	1193.4	1318.3	1545.8	1934.7	2617.0	4143.1	7285.2	9009.2	7799.0	7704.9
50°	984.2	994.0	1092.3	1287.4	1627.2	2275.8	3737.3	7442.4	10164.7	9066.8	8903.9
52.5°	796.0	805.9	884.5	1040.3	1345.0	1886.9	3234.7	7405.9	11337.0	10640.6	10403.4
55°	643.0	650.0	703.4	825.5	1058.6	1500.8	2640.9	7078.8	12638.5	12696.0	12185.0
57.5°	543.3	546.1	582.6	657.1	826.9	1156.9	2038.6	6306.6	14003.1	15318.6	14479.1
60°	485.8	487.2	504.0	550.4	652.8	883.1	1493.8	5076.7	15416.9	18599.7	17448.4
62.5°	449.3	449.3	463.3	490.0	541.9	679.5	1097.9	3646.1	16432.0	22170.0	21025.7
65°	414.2	414.2	424.0	446.5	474.5	554.6	824.1	2351.6	16930.4	25154.8	24900.7
67.5°	369.2	370.6	377.7	401.5	426.8	463.3	624.8	1590.7	15895.7	25980.3	27266.3
70°	327.1	328.5	338.4	353.8	374.9	400.1	488.6	1096.5	11570.0	21637.9	24379.8
72.5°	280.8	286.4	293.4	310.3	322.9	341.2	398.7	710.4	6732.0	13918.9	16116.1
75°	230.2	237.3	245.7	262.5	271.0	278.0	328.5	506.8	3238.9	7053.5	8032.1
77.5°	178.3	185.3	195.2	210.6	216.2	224.6	251.3	366.4	1551.4	3126.6	3370.9
80°	119.3	122.1	130.6	148.8	158.6	164.3	185.3	249.9	673.9	1255.1	1243.9
82.5°	73.0	74.4	77.2	88.4	92.7	98.3	120.7	153.0	321.5	1426.4	1635.6
85°	26.7	25.3	23.9	30.9	36.5	42.1	56.2	77.2	140.4	980.0	1096.5
87.5°	0.0	0.0	0.0	1.4	2.8	2.8	5.6	11.2	33.7	366.4	251.3
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°	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1	3281.1
2.5°	3292.3	3276.8	3296.5	3310.5	3341.4	3352.7	3355.5	3345.6	3345.6	3328.8	3331.6
5°	3330.2	3320.4	3352.7	3376.5	3421.5	3438.3	3449.5	3442.5	3446.7	3435.5	3438.3
7.5°	3387.8	3379.3	3435.5	3481.8	3528.2	3547.8	3557.6	3552.0	3553.4	3539.4	3543.6
10°	3467.8	3470.6	3538.0	3598.4	3660.1	3679.8	3684.0	3667.1	3653.1	3627.8	3629.2
12.5°	3577.3	3591.3	3686.8	3754.2	3817.4	3845.5	3814.6	3752.8	3695.2	3651.7	3646.1
15°	3696.6	3721.9	3859.5	3945.1	4013.9	3999.9	3908.6	3769.6	3655.9	3591.3	3578.7
17.5°	3839.8	3877.7	4050.4	4152.9	4211.9	4122.0	3931.1	3723.3	3564.7	3477.6	3460.8
20°	3974.6	4035.0	4252.6	4386.0	4393.0	4190.8	3921.3	3629.2	3429.9	3323.2	3300.7
22.5°	4098.2	4175.4	4464.6	4634.5	4543.2	4221.7	3860.9	3495.9	3267.0	3142.1	3122.4
25°	4232.9	4342.5	4711.7	4870.3	4693.4	4209.1	3734.5	3330.2	3070.5	2942.7	2928.7
27.5°	4325.6	4463.2	4960.2	5111.8	4817.0	4137.5	3571.7	3149.1	2890.8	2770.0	2750.4
30°	4432.3	4607.8	5234.0	5374.4	4892.8	4032.2	3397.6	2980.6	2723.7	2593.1	2579.1
32.5°	4626.1	4846.5	5573.7	5652.3	4916.7	3901.6	3230.5	2817.8	2549.6	2419.0	2399.4
35°	4937.7	5196.1	6051.1	5962.6	4898.4	3758.4	3071.9	2626.8	2371.3	2249.1	2229.5
37.5°	5330.8	5652.3	6583.2	6242.0	4847.9	3601.2	2883.7	2466.8	2211.2	2087.7	2076.5
40°	5697.3	6093.2	7179.9	6483.5	4745.4	3407.4	2702.6	2299.7	2038.6	1908.0	1882.7
42.5°	6156.4	6682.9	7870.6	6692.7	4576.9	3175.8	2499.1	2093.3	1822.3	1704.4	1673.5
45°	6854.1	7508.4	8673.7	6893.5	4325.6	2890.8	2243.5	1842.0	1585.1	1464.3	1440.5
47.5°	7724.6	8540.3	9544.1	7012.8	3943.7	2590.3	1954.3	1576.6	1319.7	1183.5	1172.3
50°	8947.4	10041.1	10477.8	6991.7	3516.9	2233.7	1628.6	1260.8	1046.0	947.7	932.2
52.5°	10437.1	11925.2	11487.2	6739.0	3063.4	1828.0	1269.2	989.8	829.7	759.5	746.9
55°	12305.7	14181.4	12550.0	6197.1	2490.6	1399.7	996.8	780.6	671.1	629.0	623.4
57.5°	14619.5	17103.1	13573.5	5284.5	1872.9	1068.4	768.0	644.4	592.5	567.2	565.8
60°	17673.1	20204.4	14462.2	4106.6	1340.8	817.1	634.6	575.6	534.9	518.1	516.7
62.5°	21303.7	23020.8	15015.4	2796.7	1008.0	651.4	558.8	522.3	498.4	488.6	487.2
65°	25035.4	24801.0	14751.4	1832.2	765.2	553.2	501.2	481.6	460.5	450.7	450.7
67.5°	27239.7	24424.7	12725.5	1272.0	606.5	485.8	452.1	433.8	398.7	390.3	390.3
70°	24127.1	19791.6	8340.9	930.8	491.4	425.4	393.1	367.8	353.8	345.4	344.0
72.5°	15957.4	12878.5	4435.1	645.8	410.0	362.2	332.7	322.9	306.1	297.6	296.2
75°	7942.2	6764.3	2273.0	466.1	341.2	290.6	278.0	273.8	259.7	248.5	245.7
77.5°	3310.5	3011.5	1060.0	338.4	259.7	234.5	223.2	223.2	207.8	195.2	189.5
80°	1248.1	1111.9	501.2	231.7	192.3	174.1	167.1	161.5	148.8	133.4	125.0
82.5°	1669.3	1090.9	245.7	144.6	126.4	112.3	102.5	98.3	91.3	84.2	78.6
85°	1081.1	775.0	110.9	74.4	63.2	47.7	42.1	39.3	35.1	30.9	28.1
87.5°	220.4	259.7	33.7	14.0	8.4	4.2	4.2	1.4	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)