

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: P634285

Luminaire Tested: GWS-SA3B-740-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3B-740-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

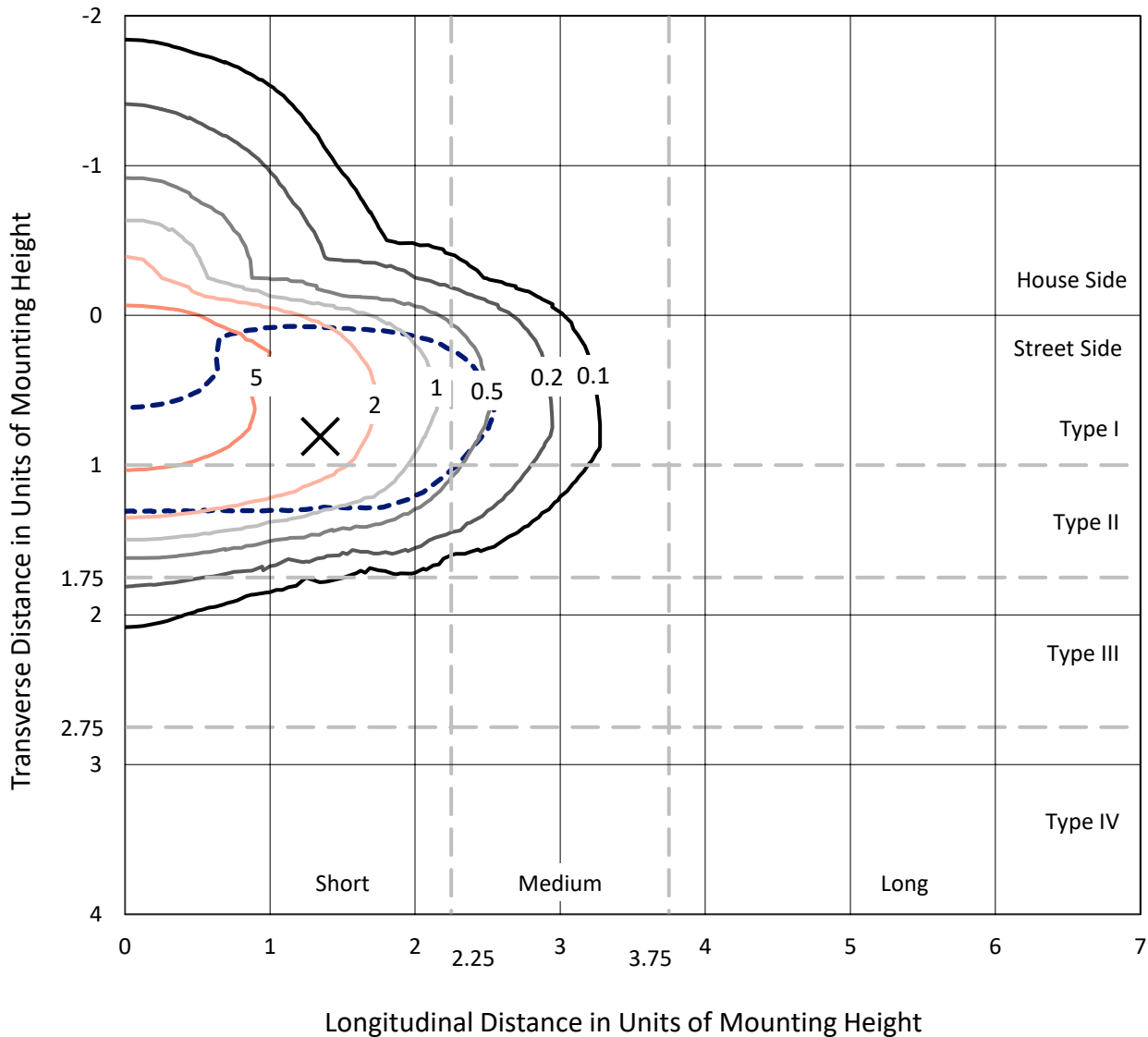
Lumens per Lamp: N/A  
Luminaire Lumens: 10592 lumens  
Efficiency: N/A  
Efficacy: 155.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

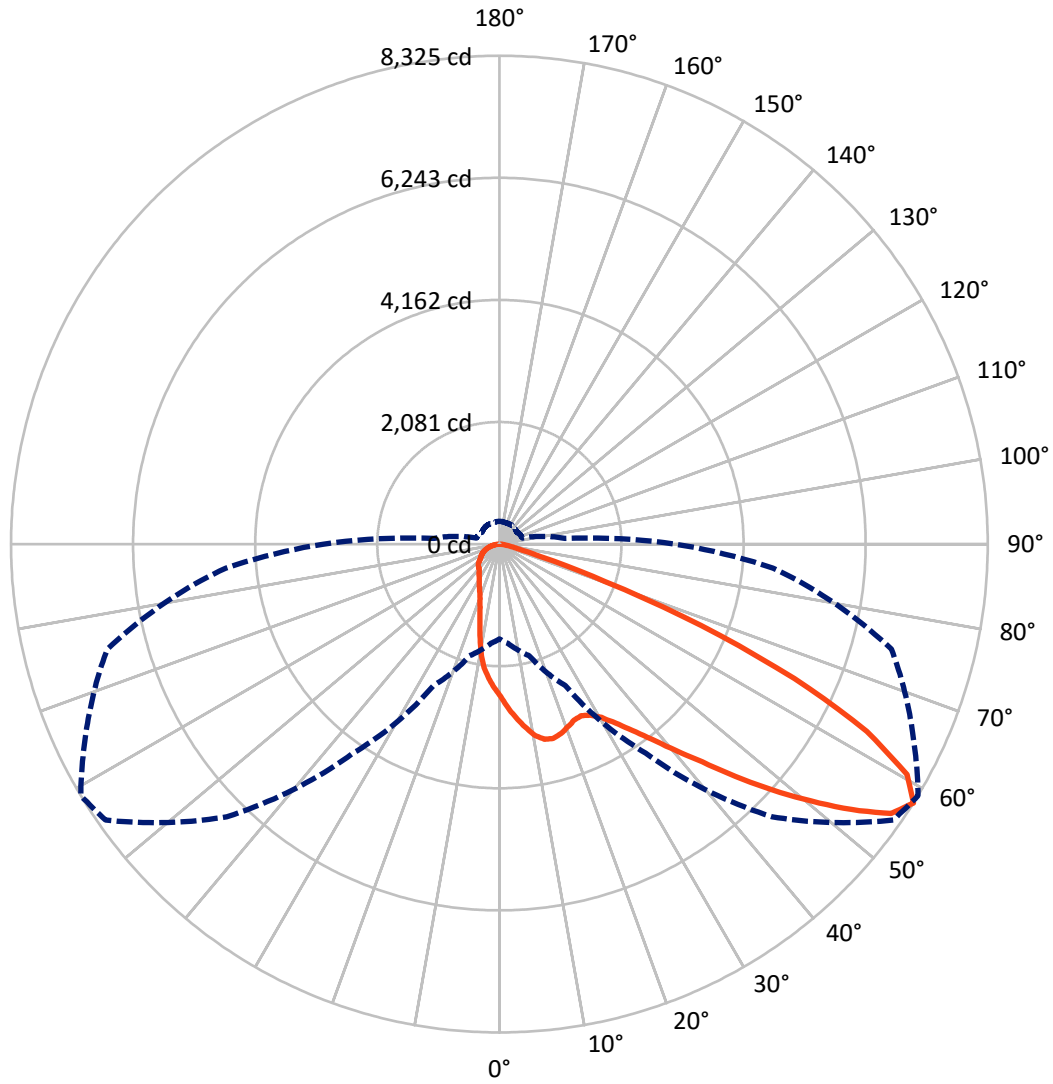
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1643.8	0.0	1643.8
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	8948.2	0.0	8948.2
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	10592.0	0.0	10592.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.4	2.3
10°-20°	611.8	5.8
20°-30°	991.7	9.4
30°-40°	1595.3	15.1
40°-50°	2477.3	23.4
50°-60°	2668.4	25.2
60°-70°	1548.6	14.6
70°-80°	404.3	3.8
80°-90°	53.3	0.5
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°	10592.0	100.0
0°-180°	10592.0	100.0

**Coefficient of Utilization**



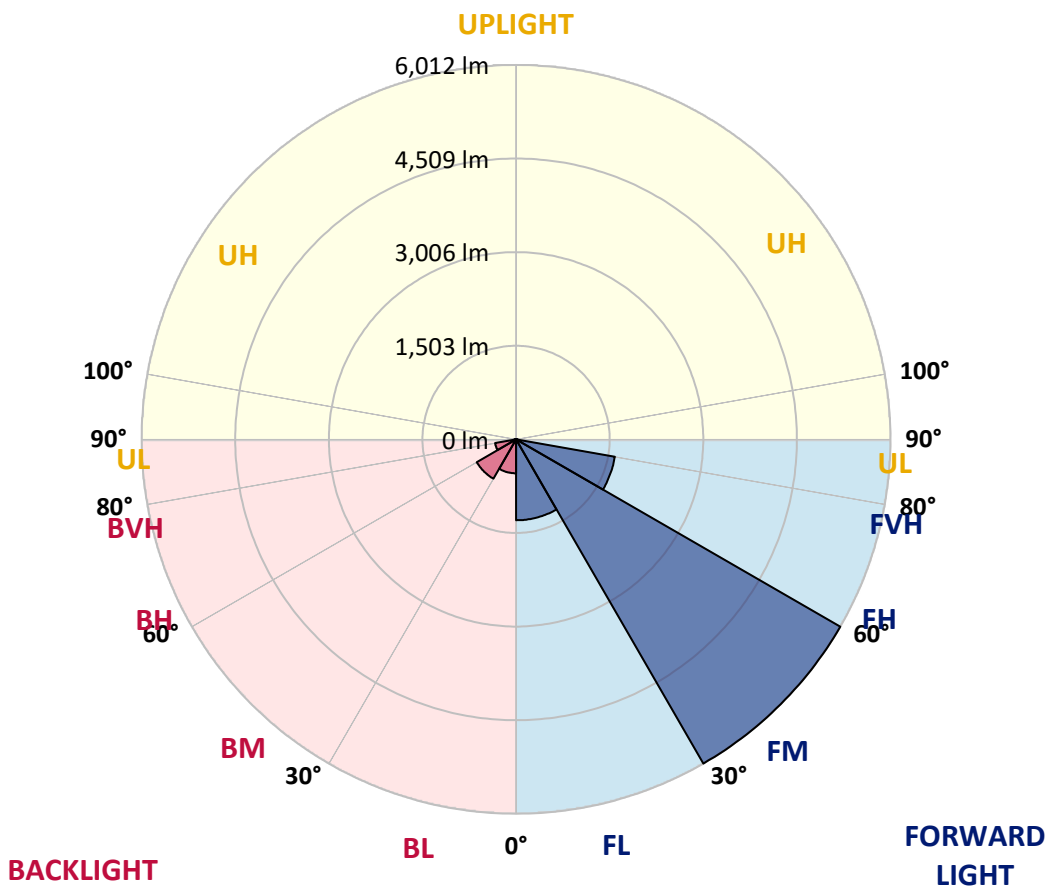
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1299.5	12.3			
FM (30°-60°)	6012.1	56.8			
FH (60°-80°)	1611.0	15.2			G1/1800
FVH (80°-90°)	25.5	0.2			G1/100
BL (0°-30°)	545.4	5.1	B2/1000		
BM (30°-60°)	728.8	6.9	B1/1000		
BH (60°-80°)	341.9	3.2	B1/500		G1/500
BVH (80°-90°)	27.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1
2.5°	2949.1	2924.5	2941.6	2911.1	2898.4	2864.8	2821.6	2792.5	2747.8	2689.6	2638.9
5°	3242.1	3225.0	3228.7	3195.9	3166.8	3110.9	3022.2	2973.0	2896.9	2779.8	2671.0
7.5°	3233.2	3253.3	3264.5	3292.8	3301.0	3295.8	3216.0	3147.4	3063.9	2887.9	2723.9
10°	2898.4	2936.4	2970.7	3067.7	3185.5	3334.6	3353.2	3312.2	3228.0	3025.9	2787.3
12.5°	2533.8	2562.8	2593.4	2709.7	2890.2	3188.5	3390.5	3415.9	3382.3	3162.4	2858.9
15°	2354.8	2368.2	2397.3	2474.1	2618.0	2949.1	3325.7	3436.8	3497.2	3307.0	2939.4
17.5°	2347.3	2353.3	2367.5	2408.5	2508.4	2764.2	3208.6	3395.0	3587.4	3459.9	3033.4
20°	2501.7	2486.0	2477.1	2476.3	2525.6	2702.3	3095.2	3327.9	3629.9	3616.5	3134.0
22.5°	2715.7	2720.9	2701.5	2653.8	2647.8	2746.3	3038.6	3260.0	3642.6	3755.2	3227.2
25°	3019.2	3045.3	2987.9	2896.9	2852.2	2873.8	3073.6	3239.2	3641.1	3870.7	3285.4
27.5°	3373.4	3393.5	3335.3	3216.0	3123.6	3071.4	3178.0	3301.0	3653.7	3970.7	3320.4
30°	3776.8	3783.5	3703.7	3578.4	3443.5	3331.6	3351.8	3428.6	3718.6	4101.9	3361.4
32.5°	4269.7	4298.0	4177.2	3978.9	3790.2	3647.0	3585.1	3634.4	3858.8	4257.0	3424.8
35°	4895.3	4905.0	4751.4	4467.3	4200.3	4002.0	3872.2	3898.3	4072.1	4474.0	3520.3
37.5°	5485.1	5494.8	5331.5	5067.5	4685.7	4414.3	4226.4	4214.5	4345.0	4780.4	3676.1
40°	5859.4	5887.0	5813.9	5648.4	5283.8	4917.6	4662.6	4621.6	4702.9	5155.5	3893.1
42.5°	6060.7	6072.7	6071.2	6092.8	5875.8	5511.9	5154.8	5072.7	5127.2	5560.4	4112.3
45°	6062.2	6092.1	6171.8	6379.9	6389.6	6162.9	5776.6	5648.4	5598.4	5968.3	4341.2
47.5°	5790.8	5822.9	6042.1	6451.5	6753.5	6804.9	6521.6	6264.3	6054.0	6319.5	4529.2
50°	4969.1	5049.6	5467.2	6191.2	6825.0	7319.4	7232.2	6883.2	6458.9	6590.9	4647.0
52.5°	4255.5	4252.5	4509.8	5456.0	6526.0	7546.1	7919.7	7520.0	6859.3	6763.2	4676.8
55°	3116.1	3133.3	3396.5	4172.7	5728.2	7326.9	8297.7	8106.1	7318.7	6854.9	4664.9
57.5°	1615.9	1700.9	1970.8	2662.8	4352.4	6572.3	8197.1	8324.6	7785.5	6919.7	4680.5
60°	816.5	800.1	897.0	1271.4	2521.8	5133.1	7576.7	7983.1	7869.7	6970.5	4690.2
62.5°	545.1	540.6	513.8	589.1	1030.5	3040.1	6458.9	7028.6	7284.4	6851.1	4566.4
65°	472.0	463.1	413.8	410.9	500.3	1260.9	4734.2	5525.4	6020.5	6321.0	4270.4
67.5°	425.0	411.6	361.6	337.0	359.4	554.0	2668.0	3705.9	4445.6	5345.7	3621.7
70°	379.5	372.8	322.9	287.1	284.8	337.8	982.8	1912.6	2720.2	3647.0	2647.8
72.5°	340.0	328.1	285.6	251.3	234.1	239.4	426.5	736.7	1407.8	2275.0	1583.8
75°	294.5	285.6	248.3	214.0	193.1	175.2	260.2	340.8	642.0	1081.2	747.9
77.5°	227.4	221.5	196.1	170.0	158.1	130.5	158.1	214.8	296.8	455.6	389.2
80°	132.0	135.7	146.1	132.7	116.3	93.2	102.9	123.8	178.2	246.8	220.7
82.5°	66.4	70.8	94.7	76.8	69.3	54.4	61.1	73.1	93.2	136.5	86.5
85°	5.2	5.2	17.2	19.4	23.9	19.4	24.6	29.8	42.5	54.4	29.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.7	6.7	12.7	8.2
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°	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1
2.5°	2604.6	2566.6	2521.1	2483.8	2426.4	2395.8	2357.0	2309.3	2289.9	2281.0	2275.8
5°	2609.8	2542.7	2445.8	2356.3	2257.1	2178.8	2091.6	2000.6	1948.4	1935.7	1926.8
7.5°	2629.2	2535.3	2380.9	2233.3	2049.1	1878.3	1712.0	1547.2	1463.0	1430.9	1427.9
10°	2656.0	2532.3	2315.3	2070.0	1759.0	1489.1	1294.5	1165.5	1111.0	1093.1	1087.2
12.5°	2689.6	2530.0	2228.8	1843.3	1424.2	1169.2	1058.1	1037.2	1044.7	1043.2	1043.2
15°	2732.1	2533.0	2124.4	1586.8	1152.0	1014.8	1017.1	1041.7	1064.8	1068.5	1068.5
17.5°	2778.3	2530.0	1973.0	1329.5	988.7	978.3	1012.6	1046.9	1067.8	1070.8	1070.8
20°	2828.3	2515.9	1782.1	1087.2	917.2	955.2	992.5	1019.3	1032.0	1035.0	1035.0
22.5°	2858.1	2475.6	1574.8	920.1	871.7	918.7	943.3	970.9	972.3	948.5	947.7
25°	2853.6	2400.3	1338.5	812.8	823.2	864.2	895.5	876.2	852.3	838.9	836.6
27.5°	2825.3	2286.9	1097.6	731.5	765.8	812.0	802.3	785.9	780.0	765.0	763.6
30°	2789.5	2147.5	881.4	668.1	706.1	748.6	733.7	732.2	726.3	709.9	709.9
32.5°	2755.2	2003.6	718.1	621.1	668.1	671.1	692.0	693.5	690.5	662.1	659.2
35°	2745.5	1859.7	607.7	583.9	630.8	629.3	659.2	658.4	607.0	567.4	566.7
37.5°	2774.6	1713.5	542.1	553.3	579.4	598.8	622.6	579.4	562.2	538.4	536.9
40°	2836.5	1578.6	508.5	535.4	546.6	574.9	537.6	540.6	536.1	518.2	516.0
42.5°	2918.5	1463.7	489.9	529.4	527.9	535.4	494.4	506.3	513.0	499.6	497.4
45°	2997.6	1363.8	480.2	507.1	514.5	471.3	463.1	474.2	484.7	479.5	477.2
47.5°	3055.7	1277.3	475.0	476.5	497.4	449.6	436.2	441.4	454.1	456.3	455.6
50°	3073.6	1203.5	469.0	451.1	446.7	428.0	417.6	416.1	431.0	441.4	442.9
52.5°	3039.3	1137.9	453.4	428.8	407.1	410.1	406.4	398.9	413.8	428.0	429.5
55°	2988.6	1100.6	428.8	407.1	381.8	393.7	395.2	388.5	398.2	407.9	407.9
57.5°	2992.3	1122.2	404.9	387.0	359.4	375.1	383.3	380.3	380.3	387.7	388.5
60°	3016.9	1153.5	389.2	361.6	337.0	353.4	372.1	369.1	362.4	372.1	372.1
62.5°	2946.1	1111.8	378.8	337.0	313.2	332.6	354.9	353.4	346.0	361.6	363.1
65°	2737.3	999.9	366.9	306.5	289.3	311.7	331.1	336.3	329.6	350.5	354.2
67.5°	2294.4	841.1	343.8	277.4	265.5	286.3	305.0	312.4	307.2	331.8	334.8
70°	1710.5	680.8	307.2	245.3	236.4	255.0	272.2	275.1	275.9	305.0	308.0
72.5°	1090.9	529.4	258.7	209.5	202.8	217.0	229.7	241.6	246.8	274.4	273.7
75°	608.5	393.7	208.0	177.5	165.5	176.7	191.6	205.8	220.7	261.0	265.5
77.5°	350.5	276.6	164.8	142.4	128.3	140.2	152.9	173.0	217.7	252.8	248.3
80°	197.6	179.7	124.5	104.4	95.4	104.4	114.1	152.1	171.5	186.4	188.7
82.5°	92.5	100.7	85.0	64.1	64.1	70.1	79.0	117.8	129.7	105.9	92.5
85°	33.6	45.5	41.8	32.8	29.1	28.3	49.2	67.1	41.8	37.3	32.1
87.5°	8.9	12.7	11.9	8.2	4.5	3.7	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)