

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: P633297

Luminaire Tested: GWS-SA2E-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12862.5 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

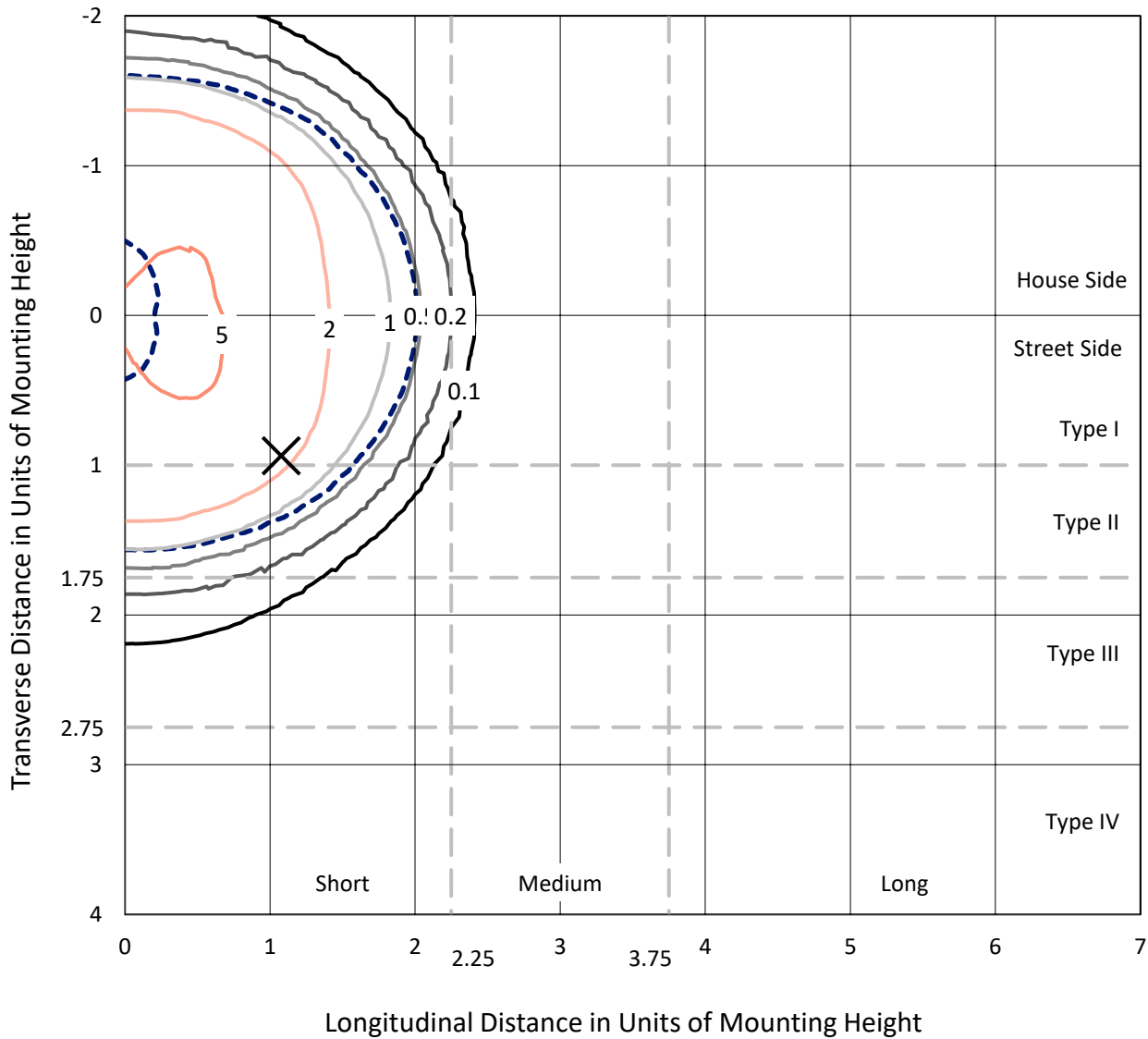
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

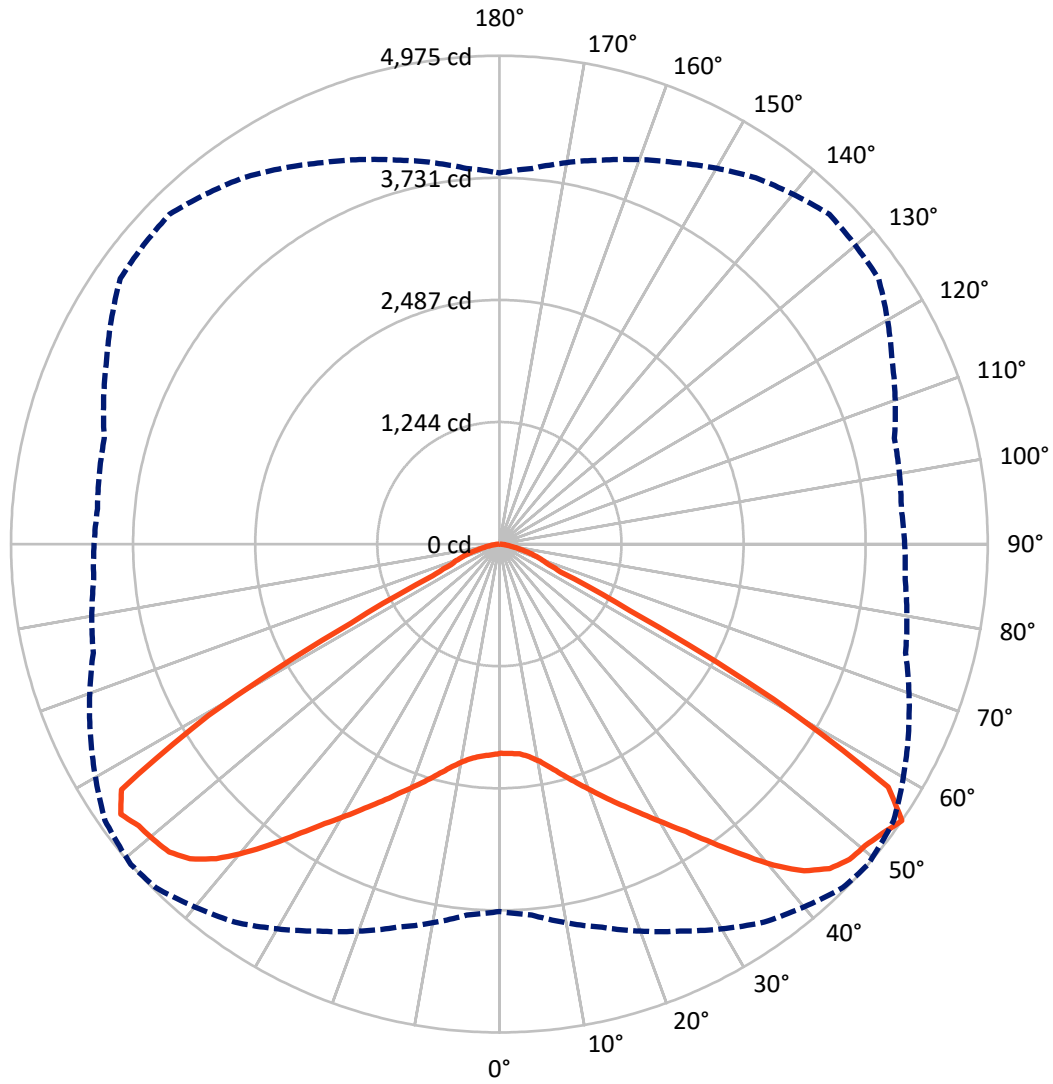
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6368.1	0.0	6368.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	6494.3	0.0	6494.3
	% Fixture	50.5	0.0	50.5
Total	Lumens	12862.5	0.0	12862.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	1.6
10°-20°	685.6	5.3
20°-30°	1305.9	10.2
30°-40°	2213.7	17.2
40°-50°	3331.5	25.9
50°-60°	3646.6	28.4
60°-70°	1153.1	9.0
70°-80°	276.7	2.2
80°-90°	41.5	0.3
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°	12862.5	100.0
0°-180°	12862.5	100.0

Coefficient of Utilization



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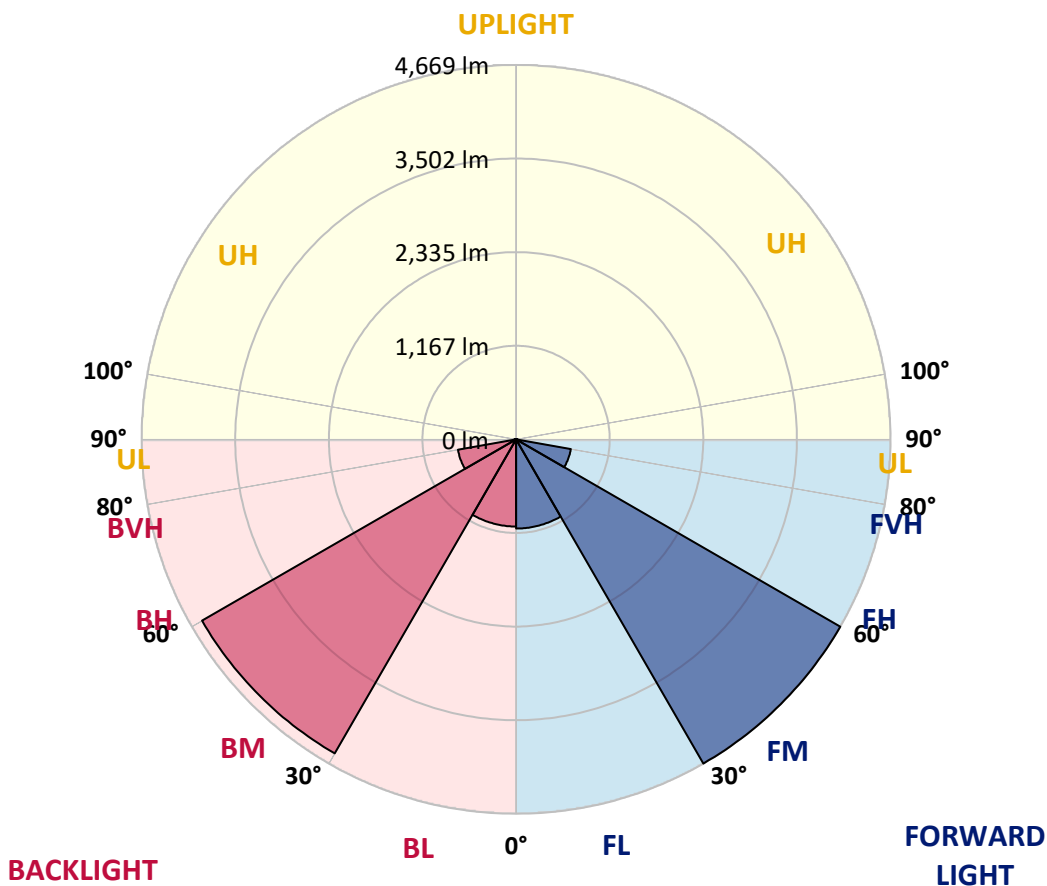
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1112.1	8.6			
FM (30°-60°)	4669.4	36.3			
FH (60°-80°)	693.6	5.4			G1/1800
FVH (80°-90°)	19.2	0.1			G1/100
BL (0°-30°)	1087.2	8.5	B3/2500		
BM (30°-60°)	4522.4	35.2	B3/5000		
BH (60°-80°)	736.2	5.7	B2/1000		G1/1800
BVH (80°-90°)	22.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8
2.5°	2099.4	2101.5	2105.6	2113.0	2120.3	2130.8	2134.9	2140.2	2139.1	2145.4	2145.4
5°	2088.9	2092.0	2098.3	2108.8	2121.3	2141.2	2146.4	2159.0	2171.5	2187.2	2192.5
7.5°	2101.5	2105.6	2113.0	2129.7	2148.5	2174.7	2185.1	2206.1	2230.1	2258.4	2269.9
10°	2125.5	2130.8	2143.3	2170.5	2200.8	2240.6	2250.0	2276.1	2314.9	2353.6	2376.6
12.5°	2152.7	2161.1	2184.1	2227.0	2272.0	2324.3	2338.9	2371.3	2413.2	2463.4	2494.8
15°	2184.1	2191.4	2227.0	2287.7	2357.7	2426.8	2443.5	2474.9	2522.0	2571.1	2615.1
17.5°	2250.0	2262.6	2304.4	2374.5	2456.1	2537.7	2556.5	2592.0	2629.7	2668.4	2710.2
20°	2340.0	2350.4	2403.8	2490.6	2586.8	2661.1	2679.9	2711.3	2729.1	2749.0	2784.5
22.5°	2429.9	2444.6	2505.2	2607.7	2720.7	2801.3	2815.9	2845.2	2832.6	2826.4	2849.4
25°	2541.8	2561.7	2621.3	2733.3	2848.3	2947.7	2959.2	2984.3	2963.4	2931.0	2929.9
27.5°	2681.0	2698.7	2760.5	2875.5	2989.5	3093.1	3115.1	3148.5	3102.5	3062.8	3034.5
30°	2846.2	2857.7	2925.7	3048.1	3165.3	3263.6	3291.8	3325.3	3290.8	3224.9	3196.6
32.5°	3038.7	3054.4	3132.8	3261.5	3366.1	3464.4	3492.7	3534.5	3496.9	3422.6	3387.0
35°	3269.9	3285.6	3368.2	3508.4	3615.1	3716.5	3736.4	3770.9	3723.8	3638.1	3609.8
37.5°	3520.9	3540.8	3645.4	3778.2	3890.2	4008.4	4009.4	4019.9	3952.9	3846.2	3814.8
40°	3803.3	3829.5	3934.1	4072.2	4207.1	4303.3	4302.3	4273.0	4160.0	3994.8	3946.6
42.5°	4082.6	4103.6	4209.2	4351.5	4486.4	4577.4	4550.2	4479.1	4315.9	4091.0	4027.2
45°	4284.5	4300.2	4411.1	4571.1	4708.2	4764.6	4715.5	4629.7	4409.0	4151.7	4057.5
47.5°	4379.7	4400.6	4512.5	4671.5	4826.4	4858.8	4800.2	4719.7	4463.4	4208.2	4081.6
50°	4328.4	4355.6	4482.2	4629.7	4804.4	4871.3	4829.5	4748.9	4520.9	4263.6	4124.5
52.5°	4195.6	4221.8	4381.8	4560.7	4758.4	4891.2	4890.2	4824.3	4586.8	4279.3	4126.6
55°	3741.6	3792.9	4041.8	4350.4	4701.9	4949.8	4974.9	4904.8	4597.3	4283.5	4148.5
57.5°	2435.1	2525.1	2761.5	3163.2	3868.2	4502.1	4671.5	4688.3	4522.0	4265.7	4152.7
60°	1016.7	1088.9	1276.1	1542.9	2125.5	2879.7	3208.2	3537.7	3935.1	4079.5	4114.0
62.5°	631.8	638.1	656.9	717.6	912.1	1280.3	1491.6	1800.2	2391.2	2894.3	3126.6
65°	570.1	573.2	577.4	573.2	582.6	627.6	684.1	791.8	1032.4	1282.4	1579.5
67.5°	502.1	506.3	509.4	506.3	509.4	511.5	517.8	527.2	571.1	606.7	633.9
70°	405.9	412.1	417.4	415.3	427.8	427.8	434.1	441.4	463.4	489.5	508.4
72.5°	309.6	304.4	310.7	312.8	324.3	330.5	340.0	348.3	373.4	389.1	413.2
75°	200.8	195.6	205.0	210.3	225.9	234.3	242.7	251.0	268.8	279.3	302.3
77.5°	108.8	107.7	117.2	124.5	141.2	151.7	157.9	164.2	178.9	182.0	196.7
80°	62.8	62.8	69.0	74.3	84.7	96.2	102.5	107.7	118.2	121.3	127.6
82.5°	34.5	34.5	37.7	40.8	49.2	55.4	60.7	64.9	74.3	77.4	80.5
85°	16.7	15.7	17.8	19.9	23.0	26.2	29.3	31.4	38.7	40.8	45.0
87.5°	2.1	2.1	2.1	3.1	4.2	6.3	7.3	7.3	11.5	13.6	15.7
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°	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8
2.5°	2151.7	2138.1	2146.4	2149.6	2149.6	2146.4	2132.8	2128.7	2122.4	2113.0	2113.0
5°	2199.8	2189.3	2191.4	2186.2	2173.6	2157.9	2132.8	2120.3	2109.8	2098.3	2097.3
7.5°	2282.4	2268.8	2266.7	2246.9	2213.4	2179.9	2142.3	2119.2	2103.6	2088.9	2087.9
10°	2390.2	2377.6	2361.9	2322.2	2273.0	2223.8	2172.6	2141.2	2118.2	2097.3	2096.2
12.5°	2510.5	2495.8	2466.5	2407.9	2346.2	2298.1	2239.5	2191.4	2156.9	2128.7	2123.4
15°	2641.2	2620.3	2570.1	2501.0	2440.4	2389.1	2326.4	2257.3	2205.0	2160.0	2154.8
17.5°	2741.6	2714.4	2660.0	2595.2	2545.0	2493.7	2412.1	2325.3	2250.0	2193.5	2185.1
20°	2810.7	2788.7	2727.0	2678.9	2649.6	2604.6	2509.4	2411.1	2326.4	2255.2	2251.0
22.5°	2874.5	2848.3	2787.7	2759.4	2759.4	2729.1	2638.1	2522.0	2422.6	2340.0	2329.5
25°	2946.6	2918.4	2872.4	2869.2	2883.9	2870.3	2760.5	2636.0	2519.9	2426.8	2410.0
27.5°	3047.1	3015.7	2988.5	3007.3	3028.2	3013.6	2891.2	2746.9	2624.5	2530.3	2515.7
30°	3207.1	3168.4	3143.3	3166.3	3207.1	3164.2	3031.4	2878.7	2755.2	2651.7	2644.3
32.5°	3393.3	3349.4	3323.2	3359.8	3396.4	3329.5	3197.7	3051.3	2921.5	2812.8	2800.2
35°	3617.2	3561.7	3523.0	3572.2	3609.8	3543.9	3413.2	3274.1	3129.7	3016.7	3000.0
37.5°	3815.9	3749.0	3722.8	3791.8	3842.0	3799.2	3656.9	3526.1	3368.2	3244.8	3237.4
40°	3960.2	3894.3	3875.5	3989.5	4077.4	4066.9	3939.3	3789.7	3641.2	3499.0	3485.4
42.5°	4023.0	3977.0	3981.2	4134.9	4270.9	4337.9	4223.8	4063.8	3920.5	3773.0	3763.6
45°	4036.6	4008.4	4041.8	4234.3	4413.2	4550.2	4452.9	4319.0	4156.9	4014.6	4010.5
47.5°	4051.3	4035.6	4086.8	4290.8	4503.1	4662.1	4607.7	4469.7	4305.4	4166.3	4155.9
50°	4085.8	4079.5	4137.0	4330.5	4546.0	4692.5	4630.7	4493.7	4325.3	4188.3	4163.2
52.5°	4096.2	4085.8	4168.4	4392.3	4617.2	4691.4	4558.6	4379.7	4210.2	4057.5	4031.4
55°	4128.7	4109.8	4166.3	4415.3	4715.5	4752.1	4554.4	4286.6	4050.2	3842.0	3780.3
57.5°	4137.0	4116.1	4152.7	4377.6	4608.8	4576.4	4003.1	3459.2	3013.6	2782.4	2808.6
60°	4092.0	4098.3	4035.6	4010.5	3696.6	3263.6	2450.8	1959.2	1538.7	1360.9	1399.6
62.5°	3115.1	3141.2	2926.8	2545.0	1957.1	1551.3	1026.1	797.1	674.7	643.3	648.5
65°	1572.2	1607.7	1384.9	1145.4	851.5	688.3	595.2	576.4	570.1	562.8	562.8
67.5°	622.4	632.8	624.5	584.7	543.9	529.3	525.1	523.0	515.7	511.5	512.6
70°	500.0	508.4	495.8	470.7	454.0	452.9	450.8	446.7	441.4	441.4	444.6
72.5°	407.9	416.3	398.5	382.8	370.3	360.9	355.6	352.5	345.2	345.2	348.3
75°	300.2	305.4	290.8	288.7	275.1	265.7	257.3	253.1	243.7	239.5	242.7
77.5°	199.8	198.7	191.4	191.4	186.2	174.7	165.3	155.9	143.3	134.9	137.0
80°	129.7	129.7	126.6	126.6	121.3	111.9	100.4	91.0	83.7	77.4	77.4
82.5°	82.6	81.6	80.5	79.5	77.4	68.0	59.6	53.3	48.1	43.9	45.0
85°	46.0	46.0	43.9	43.9	39.7	34.5	30.3	26.2	23.0	22.0	22.0
87.5°	15.7	15.7	14.6	14.6	12.6	9.4	7.3	6.3	5.2	4.2	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

(END OF REPORT)