

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: P633242

Luminaire Tested: GWS-SA2E-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633242  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

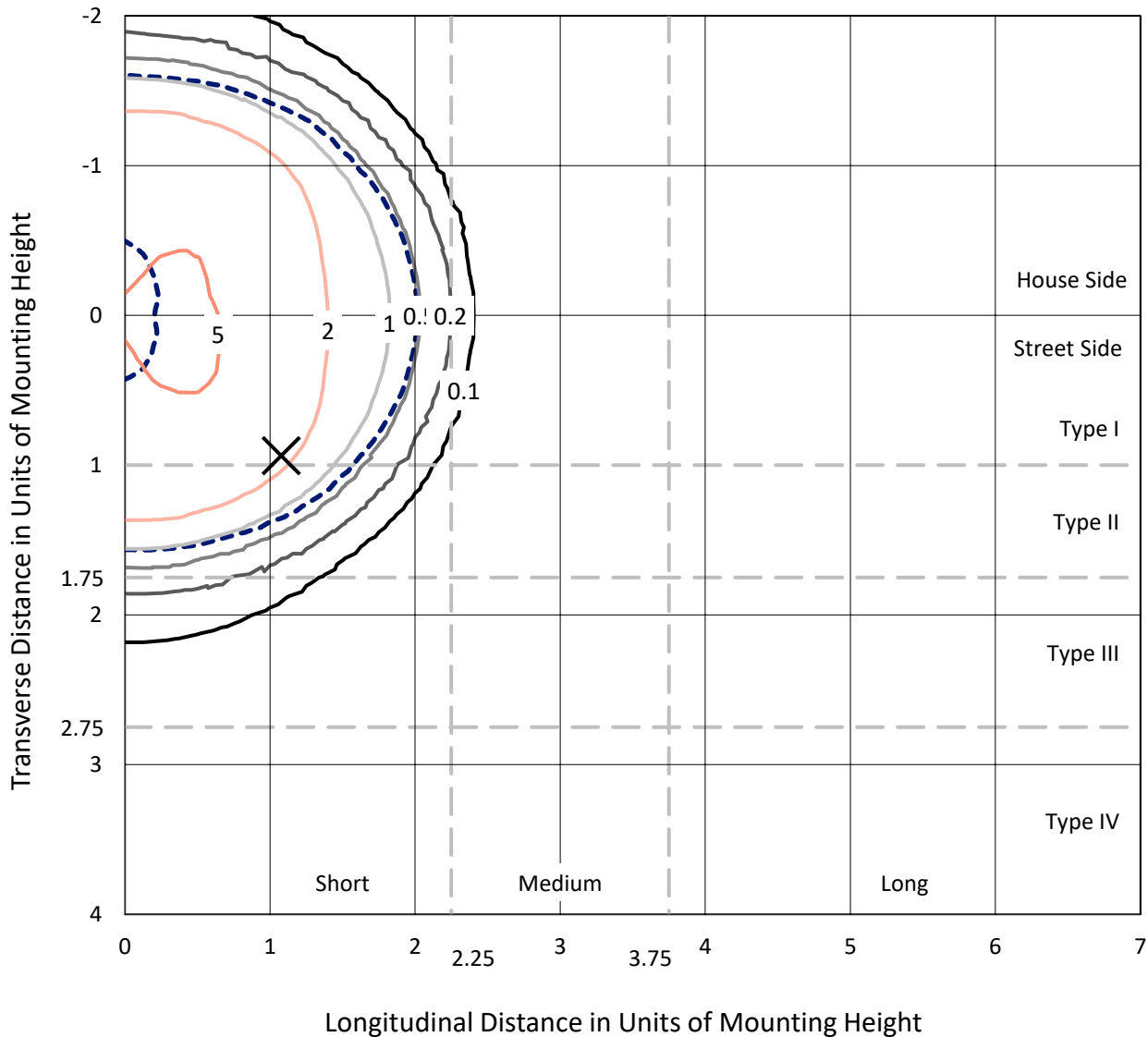
Lumens per Lamp: N/A  
Luminaire Lumens: 12686.3 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

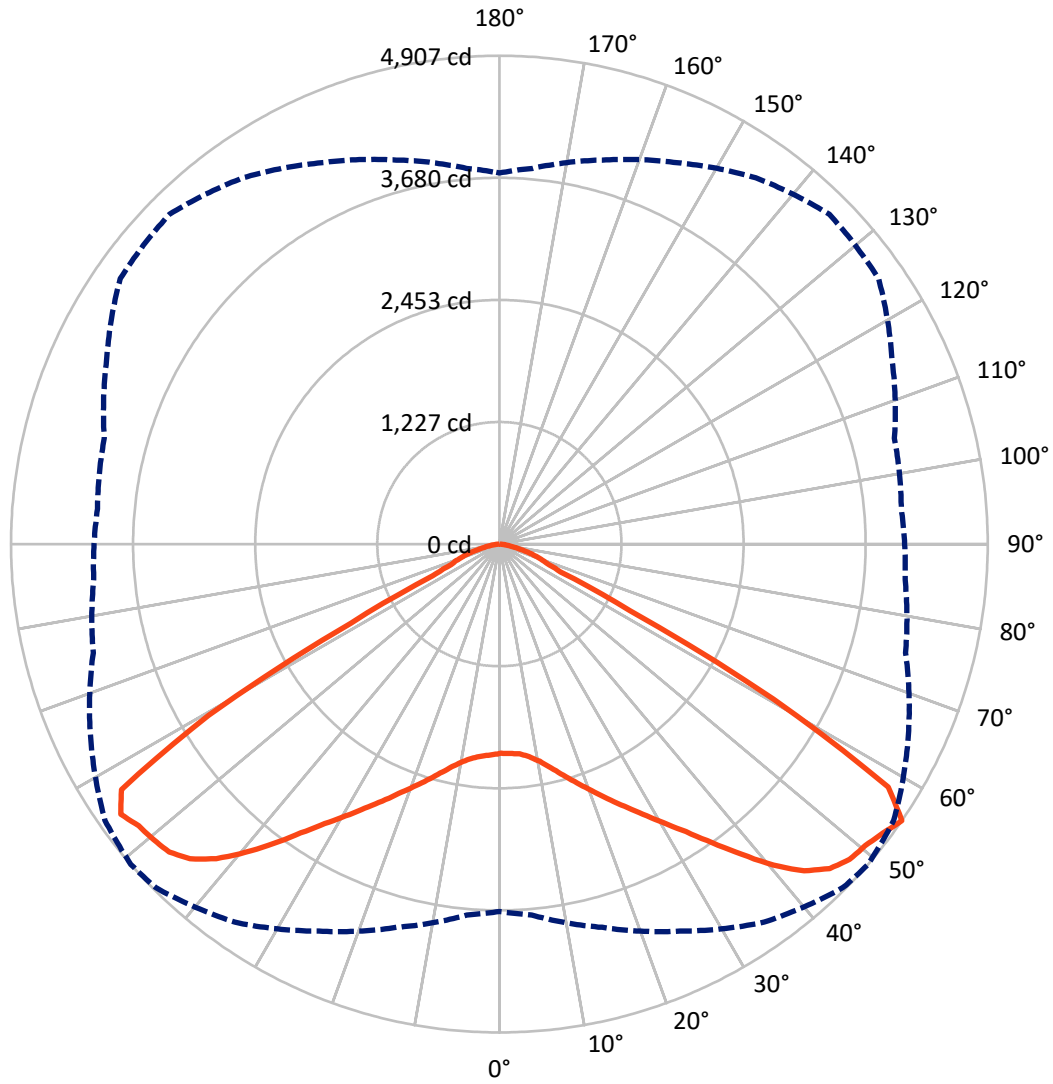
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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
<b>House Side</b>	Lumens	6280.9	0.0	6280.9
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	6405.4	0.0	6405.4
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	12686.3	0.0	12686.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.0	1.6
10°-20°	676.2	5.3
20°-30°	1288.0	10.2
30°-40°	2183.4	17.2
40°-50°	3285.8	25.9
50°-60°	3596.7	28.4
60°-70°	1137.3	9.0
70°-80°	273.0	2.2
80°-90°	41.0	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°	12686.3	100.0
0°-180°	12686.3	100.0

**Coefficient of Utilization**



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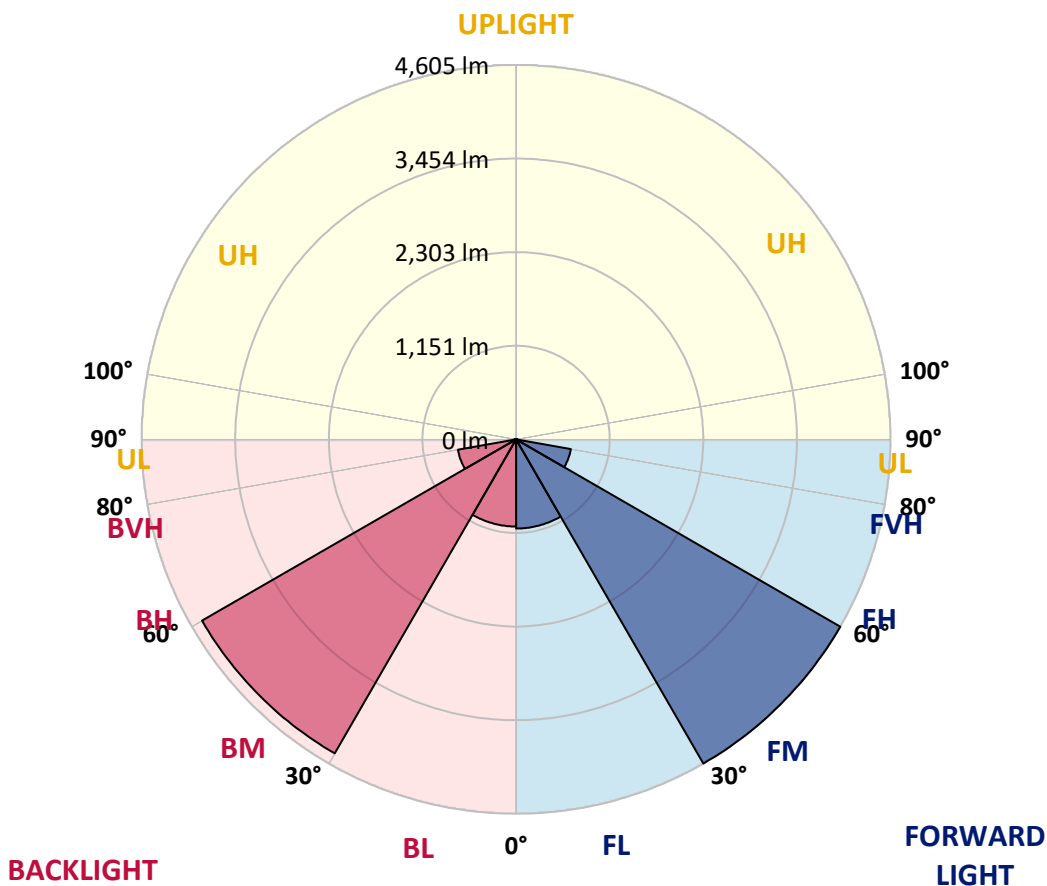
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.8	8.6			
FM (30°-60°)	4605.5	36.3			
FH (60°-80°)	684.1	5.4			G1/1800
FVH (80°-90°)	19.0	0.1			G1/100
BL (0°-30°)	1072.3	8.5	B3/2500		
BM (30°-60°)	4460.4	35.2	B3/5000		
BH (60°-80°)	726.1	5.7	B2/1000		G1/1800
BVH (80°-90°)	22.0	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°	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6
2.5°	2070.6	2072.7	2076.8	2084.0	2091.2	2101.6	2105.7	2110.8	2109.8	2116.0	2116.0
5°	2060.3	2063.4	2069.6	2079.9	2092.3	2111.9	2117.0	2129.4	2141.8	2157.3	2162.4
7.5°	2072.7	2076.8	2084.0	2100.5	2119.1	2144.9	2155.2	2175.8	2199.6	2227.4	2238.8
10°	2096.4	2101.6	2113.9	2140.8	2170.7	2209.9	2219.2	2245.0	2283.1	2321.3	2344.0
12.5°	2123.2	2131.5	2154.2	2196.5	2240.8	2292.4	2306.9	2338.9	2380.1	2429.6	2460.6
15°	2154.2	2161.4	2196.5	2256.3	2325.4	2393.5	2410.0	2441.0	2487.4	2535.9	2579.2
17.5°	2219.2	2231.6	2272.8	2341.9	2422.4	2502.9	2521.5	2556.5	2593.7	2631.9	2673.1
20°	2307.9	2318.2	2370.8	2456.5	2551.4	2624.6	2643.2	2674.2	2691.7	2711.3	2746.4
22.5°	2396.6	2411.1	2470.9	2572.0	2683.4	2762.9	2777.3	2806.2	2793.8	2787.6	2810.3
25°	2507.0	2526.6	2585.4	2695.8	2809.3	2907.3	2918.7	2943.4	2922.8	2890.8	2889.8
27.5°	2644.2	2661.8	2722.6	2836.1	2948.6	3050.7	3072.4	3105.4	3060.0	3020.8	2992.9
30°	2807.2	2818.6	2885.7	3006.4	3121.9	3218.9	3246.7	3279.8	3245.7	3180.7	3152.9
32.5°	2997.1	3012.5	3089.9	3216.8	3320.0	3417.0	3444.8	3486.1	3449.0	3375.7	3340.6
35°	3225.1	3240.6	3322.1	3460.3	3565.5	3665.6	3685.2	3719.3	3672.8	3588.2	3560.4
37.5°	3472.7	3492.3	3595.5	3726.5	3836.9	3953.5	3954.5	3964.8	3898.8	3793.5	3762.6
40°	3751.2	3777.0	3880.2	4016.4	4149.5	4244.4	4243.4	4214.5	4103.1	3940.0	3892.6
42.5°	4026.7	4047.3	4151.5	4291.9	4424.9	4514.7	4487.9	4417.7	4256.8	4035.0	3972.0
45°	4225.8	4241.3	4350.7	4508.5	4643.7	4699.4	4650.9	4566.3	4348.6	4094.8	4001.9
47.5°	4319.7	4340.3	4450.7	4607.5	4760.2	4792.2	4734.4	4655.0	4402.2	4150.5	4025.7
50°	4269.2	4296.0	4420.8	4566.3	4738.6	4804.6	4763.3	4683.9	4459.0	4205.2	4068.0
52.5°	4138.1	4163.9	4321.8	4498.2	4693.2	4824.2	4823.2	4758.2	4524.0	4220.7	4070.0
55°	3690.4	3740.9	3986.5	4290.8	4637.5	4882.0	4906.7	4837.6	4534.3	4224.8	4091.7
57.5°	2401.8	2490.5	2723.7	3119.8	3815.2	4440.4	4607.5	4624.1	4460.0	4207.3	4095.8
60°	1002.8	1074.0	1258.7	1521.7	2096.4	2840.3	3164.2	3489.2	3881.2	4023.6	4057.7
62.5°	623.1	629.3	647.9	707.7	899.6	1262.8	1471.2	1775.5	2358.5	2854.7	3083.7
65°	562.3	565.4	569.5	565.4	574.7	619.0	674.7	781.0	1018.3	1264.9	1557.9
67.5°	495.2	499.3	502.4	499.3	502.4	504.5	510.7	520.0	563.3	598.4	625.2
70°	400.3	406.5	411.6	409.6	422.0	422.0	428.2	435.4	457.0	482.8	501.4
72.5°	305.4	300.2	306.4	308.5	319.8	326.0	335.3	343.6	368.3	383.8	407.5
75°	198.1	192.9	202.2	207.4	222.8	231.1	239.4	247.6	265.1	275.5	298.2
77.5°	107.3	106.3	115.5	122.8	139.3	149.6	155.8	162.0	176.4	179.5	194.0
80°	61.9	61.9	68.1	73.3	83.6	94.9	101.1	106.3	116.6	119.7	125.9
82.5°	34.0	34.0	37.1	40.2	48.5	54.7	59.8	64.0	73.3	76.3	79.4
85°	16.5	15.5	17.5	19.6	22.7	25.8	28.9	31.0	38.2	40.2	44.4
87.5°	2.1	2.1	2.1	3.1	4.1	6.2	7.2	7.2	11.3	13.4	15.5
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°	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6	2101.6
2.5°	2122.2	2108.8	2117.0	2120.1	2120.1	2117.0	2103.6	2099.5	2093.3	2084.0	2084.0
5°	2169.7	2159.3	2161.4	2156.2	2143.9	2128.4	2103.6	2091.2	2080.9	2069.6	2068.5
7.5°	2251.2	2237.7	2235.7	2216.1	2183.1	2150.1	2112.9	2090.2	2074.7	2060.3	2059.3
10°	2357.4	2345.0	2329.6	2290.4	2241.9	2193.4	2142.8	2111.9	2089.2	2068.5	2067.5
12.5°	2476.1	2461.6	2432.7	2375.0	2314.1	2266.6	2208.9	2161.4	2127.4	2099.5	2094.3
15°	2605.0	2584.4	2534.9	2466.8	2406.9	2356.4	2294.5	2226.4	2174.8	2130.4	2125.3
17.5°	2704.1	2677.2	2623.6	2559.6	2510.1	2459.6	2379.1	2293.5	2219.2	2163.5	2155.2
20°	2772.2	2750.5	2689.6	2642.2	2613.3	2568.9	2475.0	2378.1	2294.5	2224.3	2220.2
22.5°	2835.1	2809.3	2749.5	2721.6	2721.6	2691.7	2601.9	2487.4	2389.4	2307.9	2297.6
25°	2906.3	2878.4	2833.0	2829.9	2844.4	2831.0	2722.6	2599.9	2485.4	2393.5	2377.0
27.5°	3005.3	2974.4	2947.6	2966.1	2986.8	2972.3	2851.6	2709.2	2588.5	2495.7	2481.2
30°	3163.2	3125.0	3100.2	3122.9	3163.2	3120.9	2989.9	2839.2	2717.5	2615.3	2608.1
32.5°	3346.8	3303.5	3277.7	3313.8	3349.9	3283.9	3153.9	3009.5	2881.5	2774.2	2761.8
35°	3567.6	3512.9	3474.7	3523.2	3560.4	3495.4	3366.4	3229.2	3086.8	2975.4	2958.9
37.5°	3763.6	3697.6	3671.8	3739.9	3789.4	3747.1	3606.8	3477.8	3322.1	3200.3	3193.1
40°	3906.0	3841.0	3822.4	3934.9	4021.5	4011.2	3885.4	3737.8	3591.3	3451.0	3437.6
42.5°	3967.9	3922.5	3926.6	4078.3	4212.4	4278.4	4166.0	4008.1	3866.8	3721.3	3712.0
45°	3981.3	3953.5	3986.5	4176.3	4352.7	4487.9	4391.9	4259.9	4100.0	3959.6	3955.5
47.5°	3995.8	3980.3	4030.8	4232.0	4441.4	4598.3	4544.6	4408.4	4246.5	4109.2	4098.9
50°	4029.8	4023.6	4080.4	4271.2	4483.7	4628.2	4567.3	4432.2	4266.1	4130.9	4106.1
52.5°	4040.1	4029.8	4111.3	4332.1	4553.9	4627.2	4496.1	4319.7	4152.6	4001.9	3976.2
55°	4072.1	4053.5	4109.2	4354.8	4650.9	4687.0	4492.0	4227.9	3994.7	3789.4	3728.5
57.5°	4080.4	4059.7	4095.8	4317.6	4545.6	4513.7	3948.3	3411.8	2972.3	2744.3	2770.1
60°	4036.0	4042.2	3980.3	3955.5	3646.0	3218.9	2417.3	1932.4	1517.6	1342.2	1380.4
62.5°	3072.4	3098.2	2886.7	2510.1	1930.3	1530.0	1012.1	786.2	665.4	634.5	639.7
65°	1550.6	1585.7	1366.0	1129.7	839.8	678.9	587.0	568.5	562.3	555.1	555.1
67.5°	613.9	624.2	615.9	576.7	536.5	522.0	517.9	515.8	508.6	504.5	505.5
70°	493.2	501.4	489.0	464.3	447.8	446.7	444.7	440.5	435.4	435.4	438.5
72.5°	402.4	410.6	393.1	377.6	365.2	355.9	350.8	347.7	340.5	340.5	343.6
75°	296.1	301.3	286.8	284.7	271.3	262.1	253.8	249.7	240.4	236.3	239.4
77.5°	197.1	196.0	188.8	188.8	183.6	172.3	163.0	153.7	141.3	133.1	135.2
80°	127.9	127.9	124.8	124.8	119.7	110.4	99.0	89.8	82.5	76.3	76.3
82.5°	81.5	80.5	79.4	78.4	76.3	67.1	58.8	52.6	47.5	43.3	44.4
85°	45.4	45.4	43.3	43.3	39.2	34.0	29.9	25.8	22.7	21.7	21.7
87.5°	15.5	15.5	14.4	14.4	12.4	9.3	7.2	6.2	5.2	4.1	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)