

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: P632754

Luminaire Tested: GWS-SA2D-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-735-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

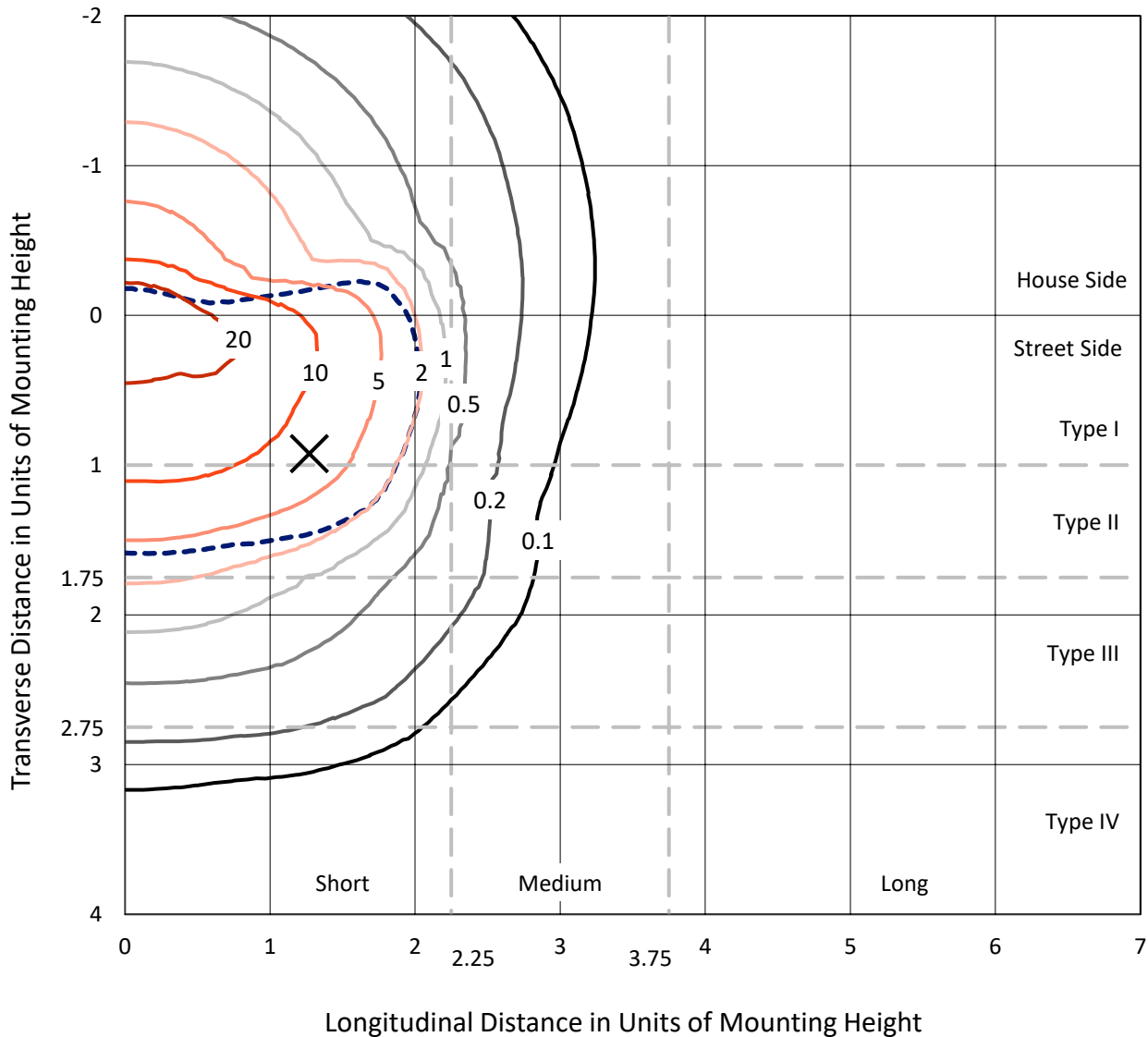
Lumens per Lamp: N/A  
Luminaire Lumens: 9644.1 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

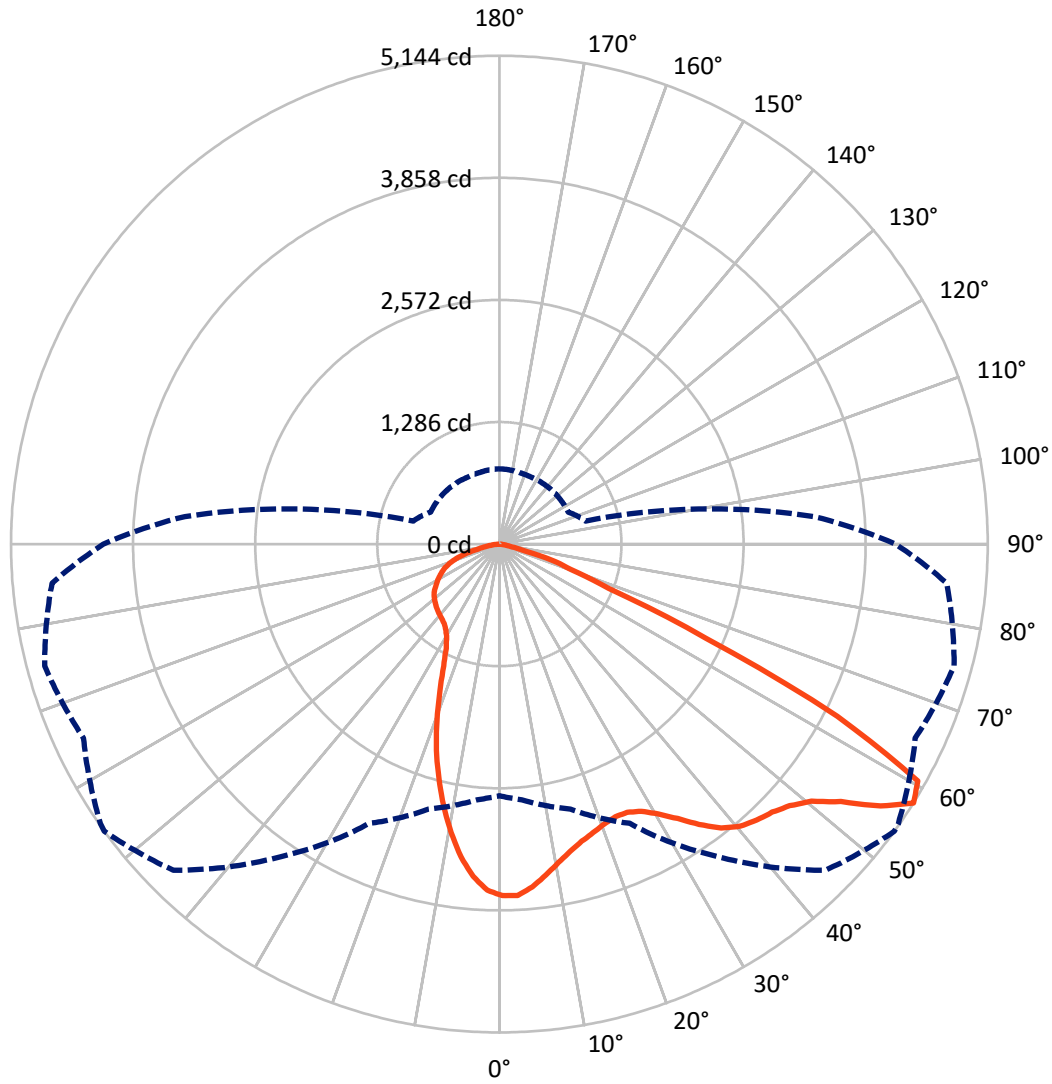
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 37 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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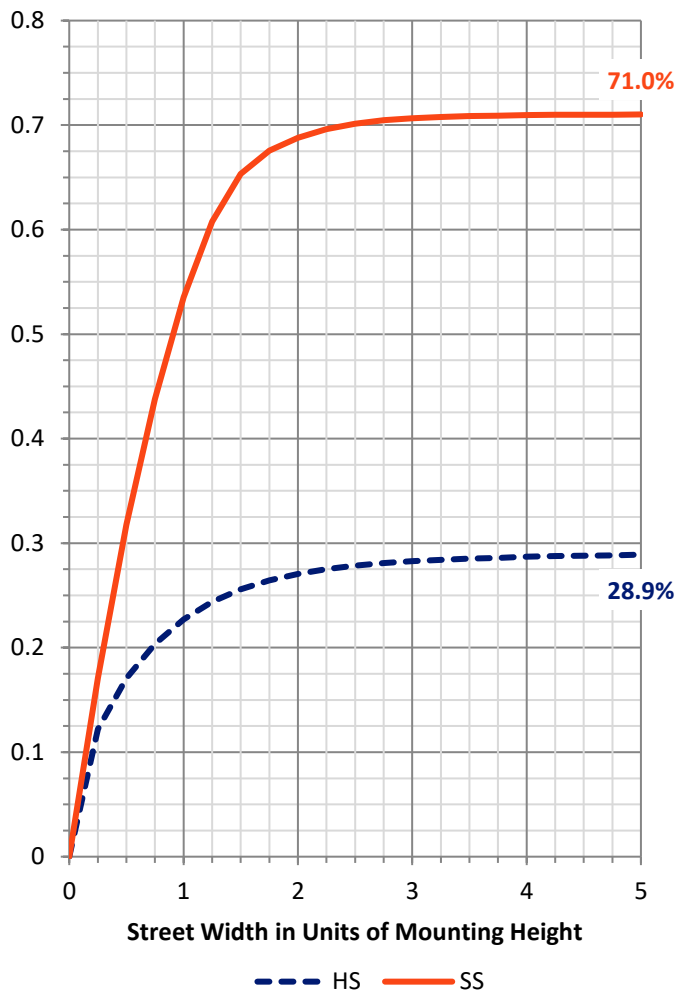
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2803.6	0.0	2803.6
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	6840.4	0.0	6840.4
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	9644.1	0.0	9644.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.5	3.4
10°-20°	776.6	8.1
20°-30°	1074.7	11.1
30°-40°	1493.2	15.5
40°-50°	1972.1	20.4
50°-60°	2343.6	24.3
60°-70°	1298.4	13.5
70°-80°	323.3	3.4
80°-90°	36.8	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°	9644.1	100.0
0°-180°	9644.1	100.0

**Coefficient of Utilization**



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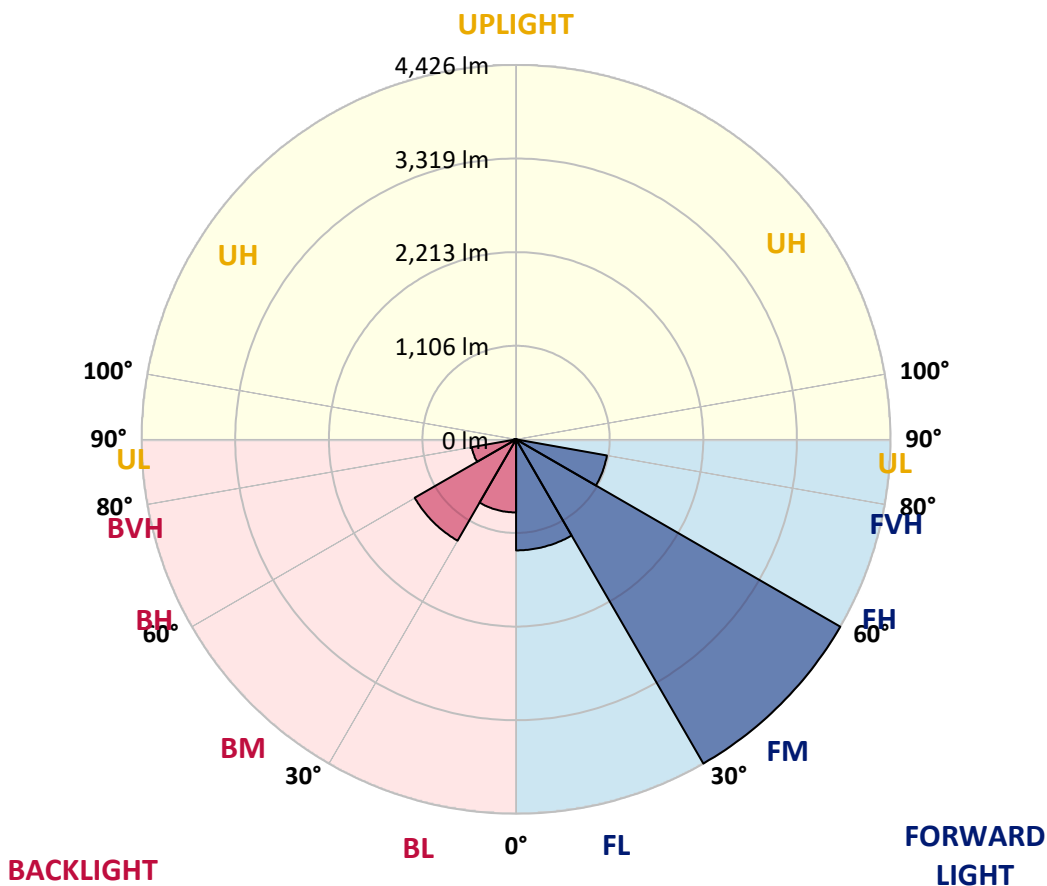
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1312.7	13.6			
FM (30°-60°)	4425.8	45.9			
FH (60°-80°)	1090.4	11.3			G1/1800
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	864.0	9.0	B2/1000		
BM (30°-60°)	1383.1	14.3	B2/2500		
BH (60°-80°)	531.3	5.5	B2/1000		G2/1000
BVH (80°-90°)	25.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6
2.5°	3633.2	3640.7	3645.6	3663.0	3677.8	3691.0	3705.1	3705.1	3704.2	3701.8	3696.8
5°	3489.6	3497.9	3509.4	3533.4	3565.5	3588.7	3626.6	3629.9	3646.5	3653.1	3649.8
7.5°	3322.8	3325.3	3340.2	3371.5	3422.7	3464.0	3518.5	3525.1	3564.7	3587.8	3583.7
10°	3140.4	3132.1	3158.6	3204.8	3271.7	3341.0	3411.2	3416.9	3480.5	3524.3	3521.0
12.5°	2973.6	2974.5	3000.9	3057.0	3140.4	3226.2	3320.4	3333.6	3412.0	3468.1	3462.4
15°	2834.1	2837.4	2869.6	2933.2	3028.1	3130.5	3247.7	3260.1	3359.2	3433.5	3416.9
17.5°	2722.7	2726.0	2754.0	2826.7	2928.2	3052.1	3194.9	3207.3	3330.3	3418.6	3384.8
20°	2645.9	2644.2	2671.5	2740.8	2845.7	2980.2	3148.6	3166.8	3321.2	3424.4	3363.3
22.5°	2614.5	2613.7	2633.5	2690.5	2788.7	2924.9	3120.6	3145.3	3331.1	3450.0	3350.1
25°	2630.2	2626.9	2644.2	2686.3	2764.8	2903.5	3128.8	3155.2	3373.2	3502.8	3352.6
27.5°	2678.9	2674.8	2689.6	2727.6	2787.1	2925.7	3186.6	3217.2	3462.4	3599.4	3385.6
30°	2753.2	2750.7	2765.6	2801.9	2853.9	3000.0	3297.2	3331.9	3600.2	3749.6	3457.4
32.5°	2839.9	2835.8	2862.2	2904.3	2964.5	3135.4	3445.8	3491.2	3763.7	3942.8	3577.9
35°	2937.3	2934.0	2970.3	3031.4	3118.1	3323.7	3625.8	3675.3	3930.4	4161.6	3738.1
37.5°	3032.2	3032.2	3102.4	3193.2	3302.2	3528.4	3795.1	3826.4	4046.0	4355.6	3909.8
40°	3116.4	3121.4	3227.1	3363.3	3502.0	3713.3	3906.5	3932.9	4097.2	4489.3	4059.2
42.5°	3209.7	3213.9	3336.9	3515.2	3680.3	3862.7	3974.2	3987.4	4107.1	4556.2	4164.9
45°	3284.0	3289.8	3442.5	3633.2	3835.5	3975.0	4027.9	4039.4	4121.1	4592.5	4241.7
47.5°	3322.8	3331.1	3506.1	3728.2	3940.3	4075.7	4116.2	4121.1	4178.9	4656.1	4334.1
50°	3316.2	3332.7	3530.0	3775.2	4017.9	4177.3	4258.2	4266.4	4297.0	4749.4	4442.3
52.5°	3374.8	3382.3	3581.2	3831.4	4128.6	4364.7	4505.0	4516.6	4502.5	4819.6	4506.7
55°	3277.4	3312.9	3517.7	3823.1	4297.0	4654.4	4870.7	4865.0	4689.1	4898.0	4614.0
57.5°	2650.8	2702.8	2890.2	3245.2	4019.6	4857.5	5144.0	5130.0	4833.6	4958.2	4730.4
60°	1835.2	1843.5	2012.7	2264.5	3102.4	4291.2	5063.9	5094.5	4860.0	4882.3	4514.9
62.5°	1467.8	1465.4	1481.0	1487.6	1973.1	3016.6	3997.3	4108.8	4037.8	3804.1	3199.8
65°	1253.2	1262.3	1308.5	1284.6	1287.9	1699.0	2388.3	2404.0	2354.5	2270.3	1692.4
67.5°	980.8	996.4	1078.2	1171.5	1141.7	1093.9	1239.1	1231.7	970.8	751.2	620.8
70°	614.2	624.1	711.6	919.7	994.0	898.2	796.7	793.4	520.1	427.6	468.9
72.5°	358.3	359.9	384.7	512.7	659.6	614.2	586.1	564.7	334.3	341.0	374.0
75°	197.3	197.3	196.5	221.2	260.0	230.3	222.9	217.1	223.7	253.4	278.2
77.5°	41.3	42.1	44.6	58.6	76.0	92.5	116.4	117.2	146.1	169.2	189.1
80°	19.0	19.8	24.8	31.4	40.5	53.7	71.0	71.8	88.3	106.5	119.7
82.5°	9.9	10.7	13.2	16.5	21.5	28.1	39.6	39.6	52.8	62.7	71.0
85°	3.3	3.3	5.0	6.6	9.1	11.6	15.7	15.7	23.1	30.5	35.5
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.3	3.3	4.1	5.0	8.3
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°	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6	3702.6
2.5°	3686.1	3660.5	3661.3	3666.3	3650.6	3626.6	3611.0	3591.1	3578.8	3576.3	3585.4
5°	3633.2	3603.5	3582.9	3561.4	3516.8	3464.0	3422.7	3388.9	3366.6	3358.3	3348.4
7.5°	3560.6	3521.8	3469.8	3409.5	3328.6	3234.5	3168.5	3106.5	3063.6	3051.2	3045.5
10°	3487.9	3431.8	3339.3	3227.1	3092.5	2965.4	2845.7	2754.0	2681.4	2640.1	2653.3
12.5°	3412.8	3343.5	3199.0	3026.5	2839.1	2647.5	2490.7	2338.8	2221.6	2162.9	2145.6
15°	3346.8	3252.7	3051.2	2817.6	2568.3	2327.2	2100.2	1872.3	1723.7	1642.8	1620.6
17.5°	3290.6	3168.5	2895.2	2604.6	2306.6	1963.2	1684.1	1472.8	1371.2	1326.7	1323.4
20°	3235.3	3085.9	2740.8	2375.1	2004.4	1619.7	1370.4	1271.3	1235.0	1219.3	1218.5
22.5°	3185.8	2999.2	2578.2	2145.6	1703.9	1361.3	1224.3	1181.4	1171.5	1171.5	1169.8
25°	3143.7	2912.5	2411.4	1902.1	1432.3	1211.9	1148.3	1130.2	1134.3	1141.7	1142.6
27.5°	3126.4	2844.8	2250.4	1651.9	1244.9	1125.2	1096.3	1093.9	1105.4	1117.0	1118.6
30°	3144.5	2798.6	2085.3	1412.5	1132.7	1072.4	1059.2	1064.1	1078.2	1089.7	1089.7
32.5°	3200.7	2775.5	1916.9	1237.5	1067.4	1035.2	1031.1	1036.1	1046.8	1053.4	1054.2
35°	3295.6	2784.6	1742.7	1119.4	1025.3	1008.0	1007.2	1010.5	1014.6	1018.7	1019.6
37.5°	3415.3	2825.0	1556.2	1050.9	998.1	988.2	986.5	985.7	986.5	986.5	987.4
40°	3532.5	2886.1	1389.4	1010.5	979.1	970.8	966.7	960.9	960.1	958.5	957.6
42.5°	3619.2	2933.2	1256.5	981.6	961.8	951.9	946.9	937.8	937.0	936.2	935.3
45°	3684.4	2972.8	1145.9	953.5	943.6	934.5	923.8	915.5	917.2	918.8	918.8
47.5°	3757.9	3007.5	1065.0	927.1	921.3	912.2	899.0	893.2	899.0	904.8	904.8
50°	3847.1	3056.2	998.9	900.7	898.2	887.5	875.9	873.4	880.0	888.3	888.3
52.5°	3912.3	3098.3	951.9	874.3	874.3	860.2	850.3	849.5	856.9	865.2	866.0
55°	4034.5	3196.5	935.3	843.7	840.4	829.7	822.2	816.5	825.5	833.0	833.0
57.5°	4172.3	3327.0	939.5	800.0	795.8	792.5	786.7	780.1	782.6	790.9	791.7
60°	3880.1	3074.3	894.1	756.2	753.7	752.1	744.6	733.1	736.4	743.0	743.8
62.5°	2710.3	2043.2	723.2	701.7	710.0	709.1	699.2	686.0	686.9	695.9	695.9
65°	1406.7	1105.4	634.8	652.2	664.6	659.6	643.1	631.5	629.9	641.5	639.0
67.5°	606.8	603.5	577.9	600.2	613.4	602.7	585.3	566.3	568.0	572.1	568.8
70°	488.7	503.6	514.3	538.3	549.0	529.2	510.2	499.5	490.4	489.6	483.8
72.5°	390.5	411.1	435.1	459.8	463.1	443.3	419.4	409.5	395.4	394.6	388.8
75°	293.9	311.2	330.2	350.0	350.0	331.0	315.4	310.4	293.9	288.9	284.0
77.5°	200.6	211.3	226.2	231.2	236.1	228.7	213.0	204.7	185.7	180.8	174.2
80°	126.3	133.7	142.8	146.1	151.1	142.0	129.6	120.5	107.3	103.2	99.9
82.5°	76.0	80.9	86.7	88.3	92.5	85.9	74.3	67.7	60.3	57.0	54.5
85°	38.8	41.3	44.6	45.4	44.6	38.0	33.8	30.5	25.6	24.8	23.1
87.5°	9.9	11.6	12.4	11.6	10.7	8.3	5.8	4.1	1.7	1.7	0.8
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)