

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: P633524

Luminaire Tested: GWS-SA2E-830-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633524
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-SA2E-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9706.8 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

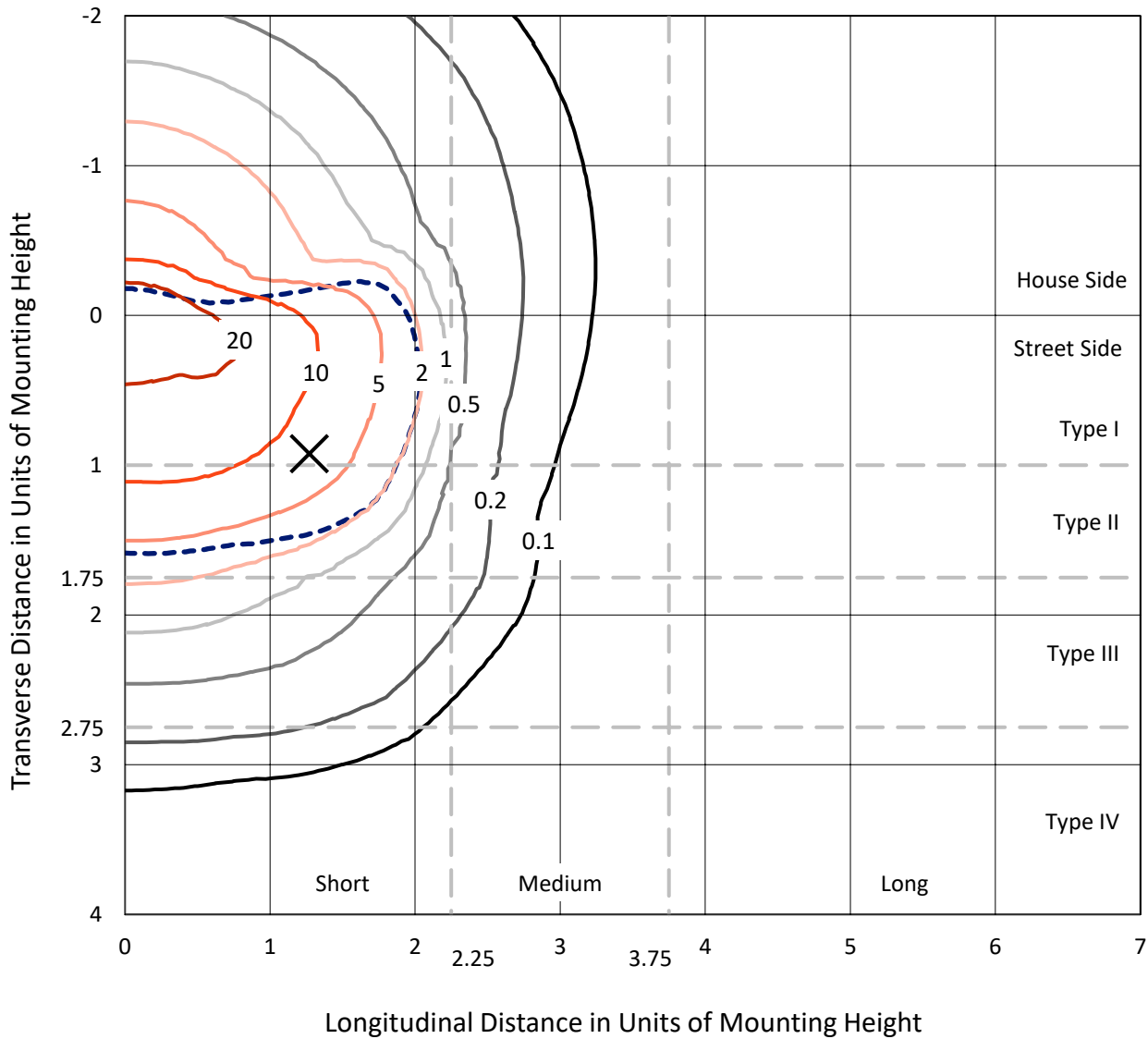
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

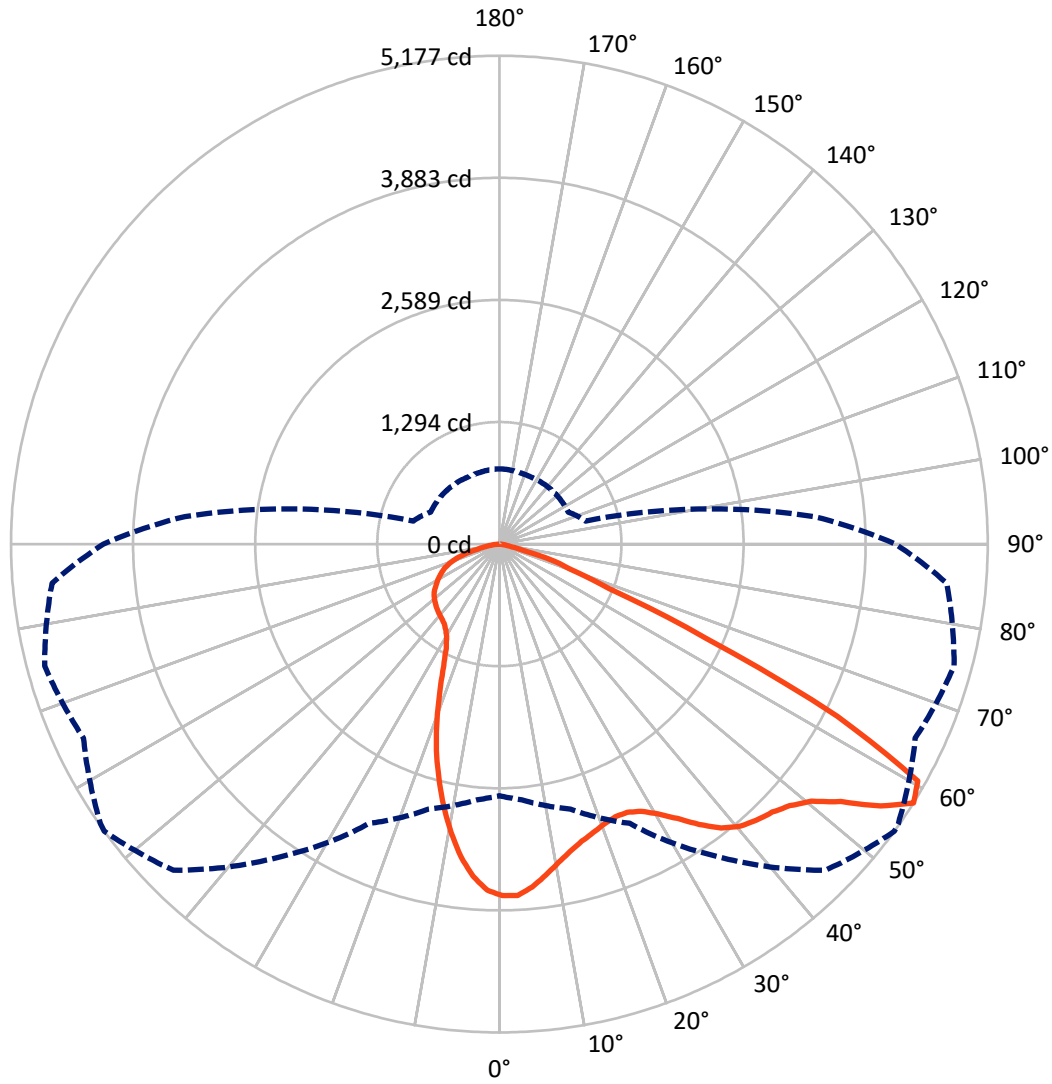
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 37.3 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
House Side	Lumens	2821.9	0.0	2821.9
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	6884.9	0.0	6884.9
	% Fixture	70.9	0.0	70.9
Total	Lumens	9706.8	0.0	9706.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	3.4
10°-20°	781.6	8.1
20°-30°	1081.6	11.1
30°-40°	1503.0	15.5
40°-50°	1984.9	20.4
50°-60°	2358.8	24.3
60°-70°	1306.8	13.5
70°-80°	325.4	3.4
80°-90°	37.0	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°	9706.8	100.0
0°-180°	9706.8	100.0

Coefficient of Utilization



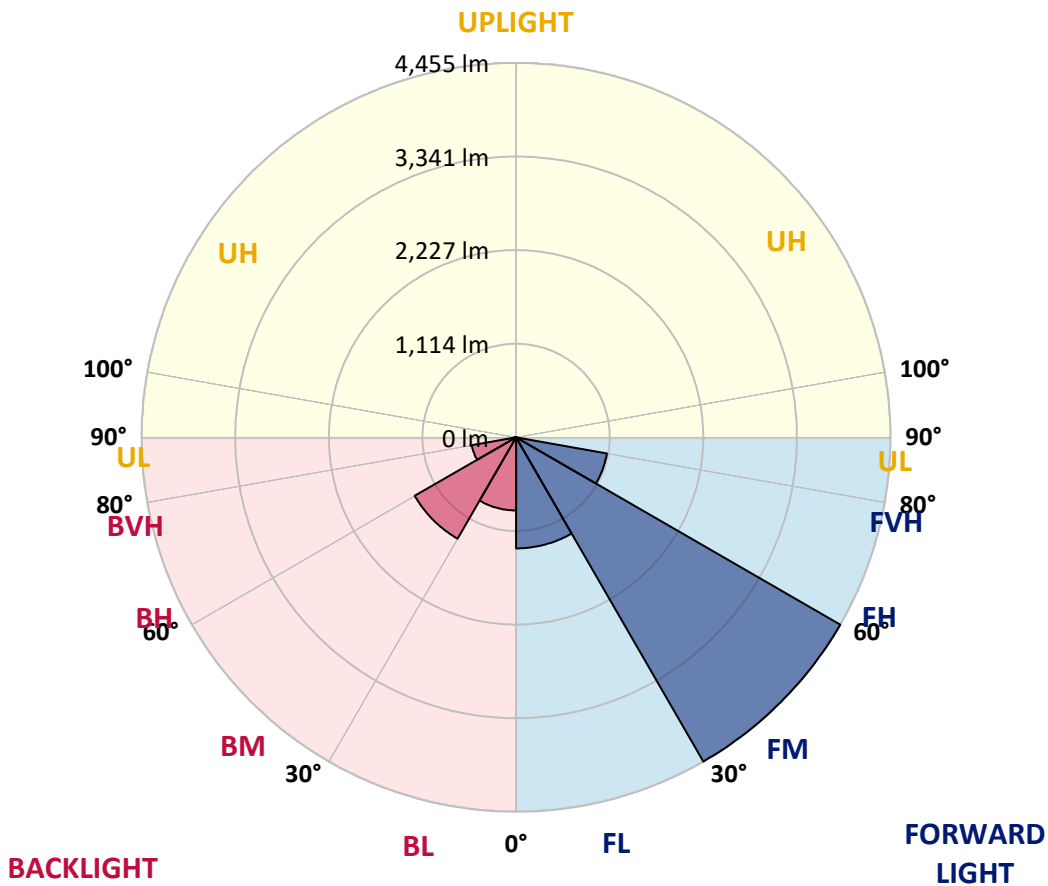
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.3	13.6			
FM (30°-60°)	4454.6	45.9			
FH (60°-80°)	1097.5	11.3			G1/1800
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	869.6	9.0	B2/1000		
BM (30°-60°)	1392.1	14.3	B2/2500		
BH (60°-80°)	534.8	5.5	B2/1000		G2/1000
BVH (80°-90°)	25.4	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°	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7
2.5°	3656.9	3664.3	3669.3	3686.8	3701.7	3715.0	3729.2	3729.2	3728.3	3725.8	3720.8
5°	3512.3	3520.6	3532.2	3556.3	3588.7	3612.0	3650.2	3653.5	3670.2	3676.8	3673.5
7.5°	3344.4	3346.9	3361.9	3393.5	3445.0	3486.5	3541.4	3548.0	3587.9	3611.2	3607.0
10°	3160.8	3152.5	3179.1	3225.6	3292.9	3362.7	3433.3	3439.2	3503.1	3547.2	3543.9
12.5°	2993.0	2993.8	3020.4	3076.9	3160.8	3247.2	3341.9	3355.2	3434.2	3490.7	3484.9
15°	2852.5	2855.9	2888.3	2952.2	3047.8	3150.8	3268.8	3281.3	3381.0	3455.8	3439.2
17.5°	2740.4	2743.7	2771.9	2845.1	2947.3	3071.9	3215.6	3228.1	3351.9	3440.8	3406.8
20°	2663.1	2661.4	2688.8	2758.6	2864.2	2999.6	3169.1	3187.4	3342.8	3446.6	3385.2
22.5°	2631.5	2630.7	2650.6	2708.0	2806.8	2943.9	3140.9	3165.8	3352.7	3472.4	3371.9
25°	2647.3	2644.0	2661.4	2703.8	2782.7	2922.3	3149.2	3175.8	3395.1	3525.6	3374.4
27.5°	2696.3	2692.2	2707.1	2745.3	2805.2	2944.8	3207.3	3238.1	3484.9	3622.8	3407.6
30°	2771.1	2768.6	2783.6	2820.1	2872.5	3019.6	3318.7	3353.6	3623.6	3774.0	3479.9
32.5°	2858.4	2854.2	2880.8	2923.2	2983.8	3155.8	3468.2	3513.9	3788.1	3968.5	3601.2
35°	2956.4	2953.1	2989.6	3051.1	3138.4	3345.3	3649.4	3699.2	3956.0	4188.7	3762.4
37.5°	3052.0	3052.0	3122.6	3214.0	3323.7	3551.3	3819.7	3851.3	4072.3	4383.9	3935.2
40°	3136.7	3141.7	3248.1	3385.2	3524.7	3737.5	3931.9	3958.5	4123.8	4518.5	4085.6
42.5°	3230.6	3234.8	3358.6	3538.0	3704.2	3887.9	4000.0	4013.3	4133.8	4585.8	4192.0
45°	3305.4	3311.2	3464.9	3656.9	3860.4	4000.9	4054.0	4065.7	4147.9	4622.4	4269.2
47.5°	3344.4	3352.7	3528.9	3752.4	3966.0	4102.2	4143.0	4147.9	4206.1	4686.4	4362.3
50°	3337.8	3354.4	3553.0	3799.8	4044.1	4204.4	4285.9	4294.2	4324.9	4780.3	4471.2
52.5°	3396.8	3404.3	3604.5	3856.3	4155.4	4393.1	4534.3	4545.9	4531.8	4850.9	4536.0
55°	3298.7	3334.5	3540.5	3848.0	4324.9	4684.7	4902.4	4896.6	4719.6	4929.8	4644.0
57.5°	2668.1	2720.4	2909.0	3266.3	4045.7	4889.1	5177.4	5163.3	4865.0	4990.5	4761.2
60°	1847.1	1855.4	2025.8	2279.2	3122.6	4319.1	5096.8	5127.6	4891.6	4914.0	4544.3
62.5°	1477.4	1474.9	1490.7	1497.3	1985.9	3036.2	4023.3	4135.5	4064.0	3828.9	3220.6
65°	1261.3	1270.5	1317.0	1292.9	1296.2	1710.0	2403.8	2419.6	2369.8	2285.0	1703.4
67.5°	987.1	1002.9	1085.2	1179.1	1149.2	1101.0	1247.2	1239.7	977.2	756.1	624.8
70°	618.2	628.2	716.3	925.6	1000.4	904.0	801.8	798.5	523.5	430.4	472.0
72.5°	360.6	362.3	387.2	516.0	663.9	618.2	590.0	568.3	336.5	343.2	376.4
75°	198.6	198.6	197.8	222.7	261.7	231.8	224.3	218.5	225.2	255.1	280.0
77.5°	41.5	42.4	44.9	59.0	76.4	93.1	117.2	118.0	147.1	170.3	190.3
80°	19.1	19.9	24.9	31.6	40.7	54.0	71.5	72.3	88.9	107.2	120.5
82.5°	10.0	10.8	13.3	16.6	21.6	28.3	39.9	39.9	53.2	63.1	71.5
85°	3.3	3.3	5.0	6.6	9.1	11.6	15.8	15.8	23.3	30.7	35.7
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.3	3.3	4.2	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°	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7	3726.7
2.5°	3710.0	3684.3	3685.1	3690.1	3674.3	3650.2	3634.4	3614.5	3602.0	3599.5	3608.7
5°	3656.9	3627.0	3606.2	3584.6	3539.7	3486.5	3445.0	3410.9	3388.5	3380.2	3370.2
7.5°	3583.7	3544.7	3492.3	3431.7	3350.3	3255.5	3189.1	3126.7	3083.5	3071.1	3065.3
10°	3510.6	3454.1	3361.1	3248.1	3112.6	2984.7	2864.2	2771.9	2698.8	2657.3	2670.6
12.5°	3435.0	3365.2	3219.8	3046.1	2857.5	2664.7	2506.9	2354.0	2236.0	2177.0	2159.6
15°	3368.5	3273.8	3071.1	2835.9	2585.0	2342.4	2113.9	1884.5	1735.0	1653.5	1631.1
17.5°	3312.0	3189.1	2914.0	2621.5	2321.6	1975.9	1695.1	1482.4	1380.2	1335.3	1332.0
20°	3256.4	3106.0	2758.6	2390.5	2017.5	1630.3	1379.3	1279.6	1243.1	1227.3	1226.4
22.5°	3206.5	3018.7	2595.0	2159.6	1715.0	1370.2	1232.2	1189.0	1179.1	1179.1	1177.4
25°	3164.1	2931.5	2427.1	1914.4	1441.6	1219.8	1155.8	1137.5	1141.7	1149.2	1150.0
27.5°	3146.7	2863.3	2265.1	1662.7	1253.0	1132.5	1103.5	1101.0	1112.6	1124.2	1125.9
30°	3165.0	2816.8	2098.9	1421.7	1140.0	1079.4	1066.1	1071.1	1085.2	1096.8	1096.8
32.5°	3221.5	2793.5	1929.4	1245.5	1074.4	1042.0	1037.8	1042.8	1053.6	1060.2	1061.1
35°	3317.0	2802.7	1754.1	1126.7	1032.0	1014.5	1013.7	1017.0	1021.2	1025.4	1026.2
37.5°	3437.5	2843.4	1566.3	1057.8	1004.6	994.6	992.9	992.1	992.9	992.9	993.8
40°	3555.5	2904.9	1398.4	1017.0	985.5	977.2	973.0	967.2	966.4	964.7	963.9
42.5°	3642.7	2952.2	1264.7	988.0	968.0	958.0	953.1	943.9	943.1	942.3	941.4
45°	3708.4	2992.1	1153.3	959.7	949.7	940.6	929.8	921.5	923.1	924.8	924.8
47.5°	3782.3	3027.0	1071.9	933.1	927.3	918.2	904.9	899.1	904.9	910.7	910.7
50°	3872.1	3076.1	1005.4	906.5	904.0	893.2	881.6	879.1	885.8	894.1	894.1
52.5°	3937.7	3118.4	958.0	879.9	879.9	865.8	855.8	855.0	862.5	870.8	871.6
55°	4060.7	3217.3	941.4	849.2	845.9	835.1	827.6	821.8	830.9	838.4	838.4
57.5°	4199.5	3348.6	945.6	805.2	801.0	797.7	791.9	785.2	787.7	796.0	796.8
60°	3905.3	3094.3	899.9	761.1	758.6	757.0	749.5	737.9	741.2	747.8	748.7
62.5°	2727.9	2056.5	727.9	706.3	714.6	713.8	703.8	690.5	691.3	700.5	700.5
65°	1415.9	1112.6	639.0	656.4	668.9	663.9	647.3	635.7	634.0	645.6	643.1
67.5°	610.7	607.4	581.6	604.1	617.4	606.6	589.1	570.0	571.7	575.8	572.5
70°	491.9	506.9	517.7	541.8	552.6	532.6	513.5	502.7	493.6	492.7	486.9
72.5°	393.0	413.8	437.9	462.8	466.1	446.2	422.1	412.1	398.0	397.2	391.4
75°	295.8	313.3	332.4	352.3	352.3	333.2	317.4	312.4	295.8	290.8	285.8
77.5°	201.9	212.7	227.7	232.7	237.6	230.2	214.4	206.1	187.0	182.0	175.3
80°	127.1	134.6	143.7	147.1	152.1	142.9	130.5	121.3	108.0	103.9	100.5
82.5°	76.4	81.4	87.2	88.9	93.1	86.4	74.8	68.1	60.7	57.3	54.8
85°	39.1	41.5	44.9	45.7	44.9	38.2	34.1	30.7	25.8	24.9	23.3
87.5°	10.0	11.6	12.5	11.6	10.8	8.3	5.8	4.2	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)