

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: P641668

Luminaire Tested: GWS-SA6B-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20055.3 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

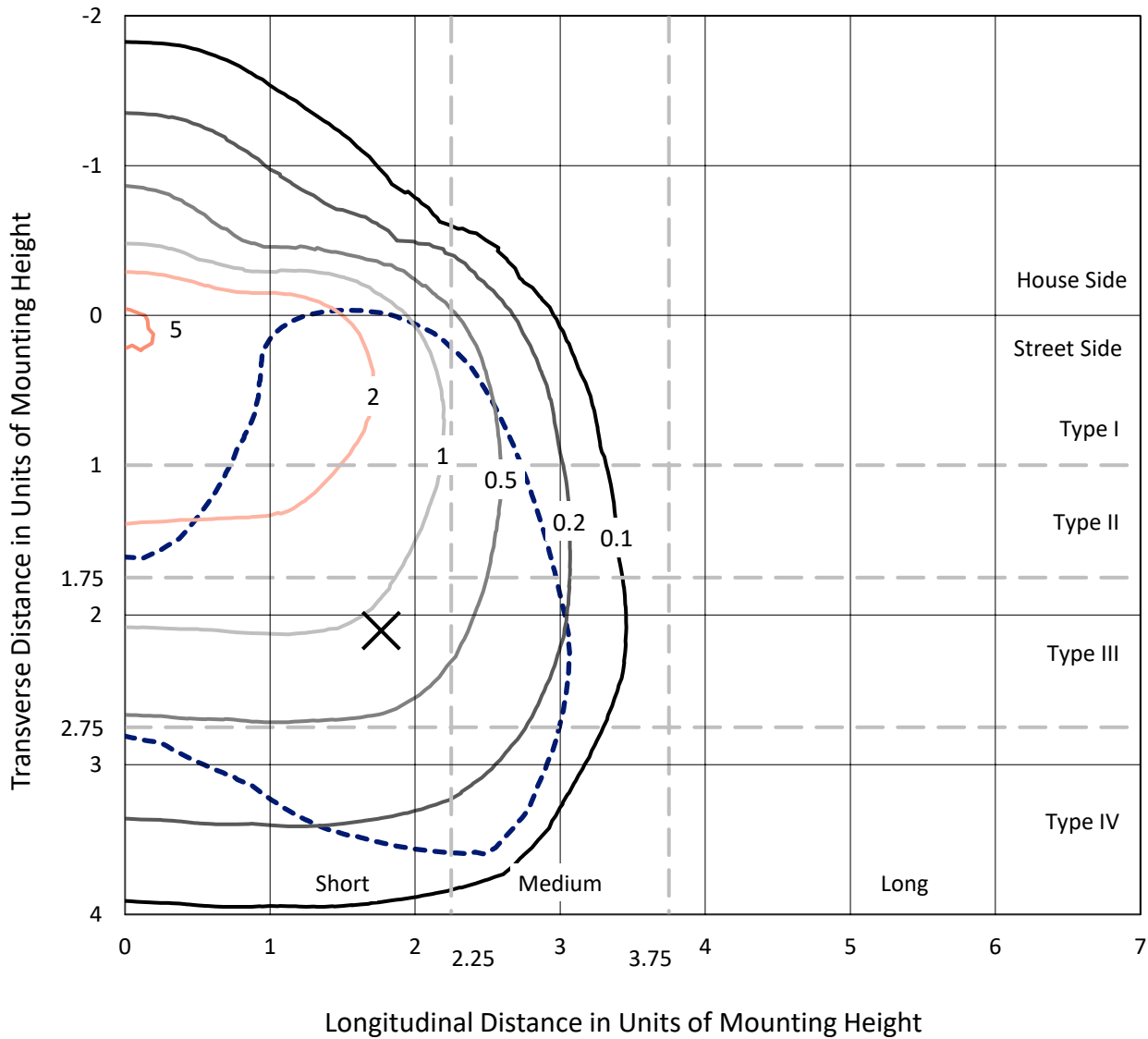
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641668
 CATALOG NUMBER: GWS-SA6B-735-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

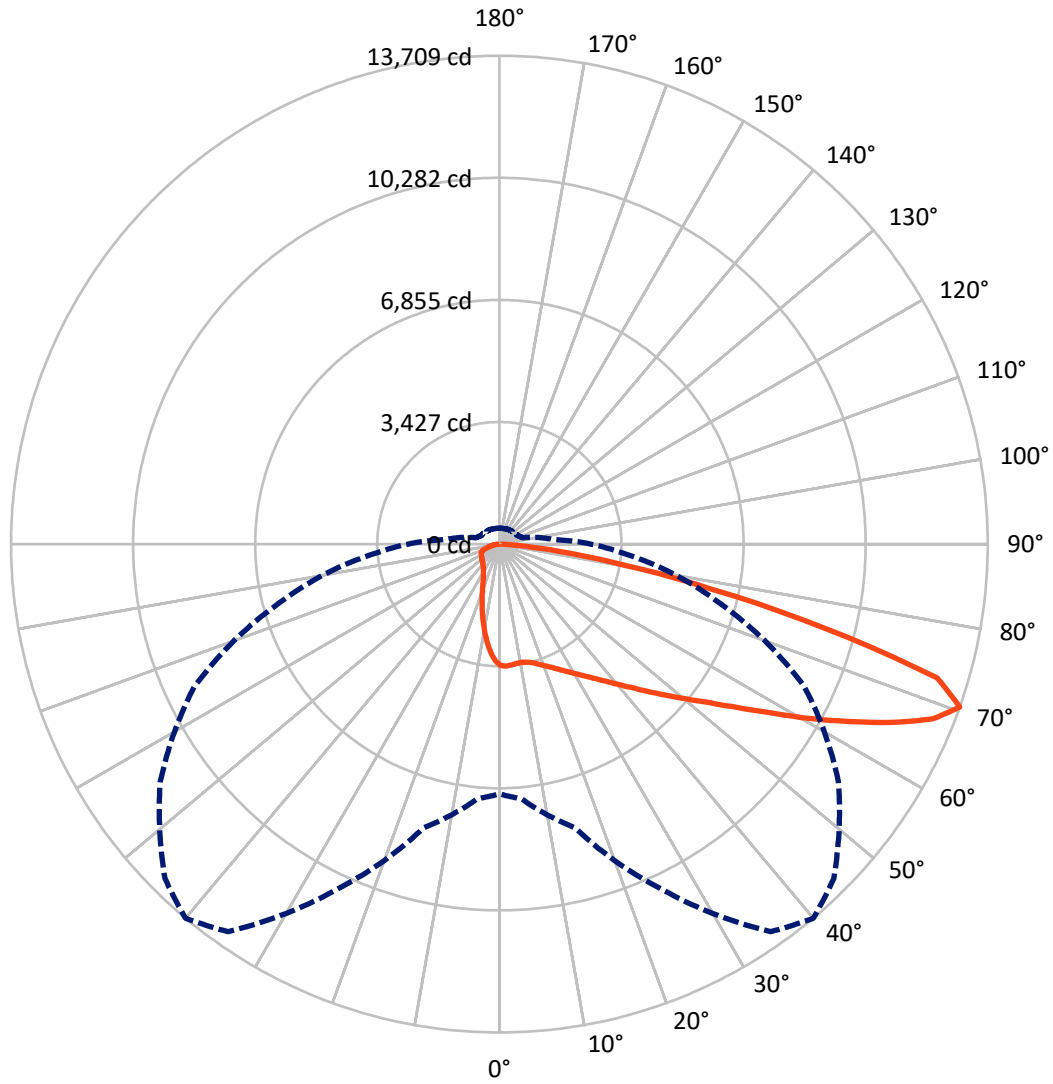
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P641668
CATALOG NUMBER: GWS-SA6B-735-U-SL4-W

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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CATALOG NUMBER: GWS-SA6B-735-U-SL4-W

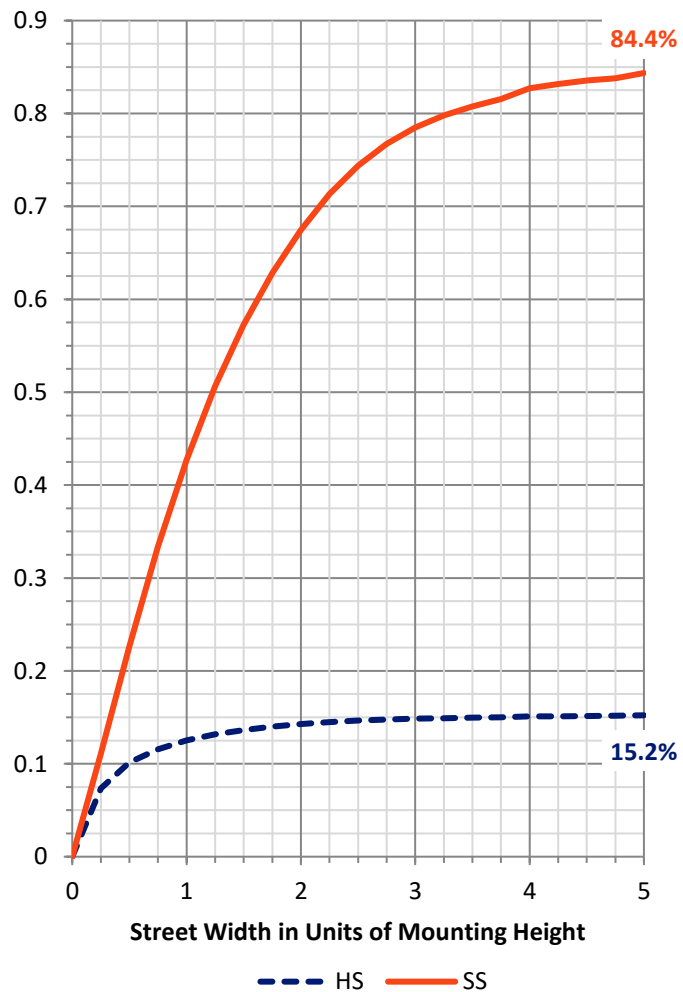
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3089.0	0.0	3089.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	16966.3	0.0	16966.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	20055.3	0.0	20055.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.9	1.5
10°-20°	784.2	3.9
20°-30°	1231.4	6.1
30°-40°	1851.4	9.2
40°-50°	2857.6	14.2
50°-60°	4243.8	21.2
60°-70°	5349.3	26.7
70°-80°	3093.4	15.4
80°-90°	343.3	1.7
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°	20055.3	100.0
0°-180°	20055.3	100.0

Coefficient of Utilization



REPORT NUMBER: P641668

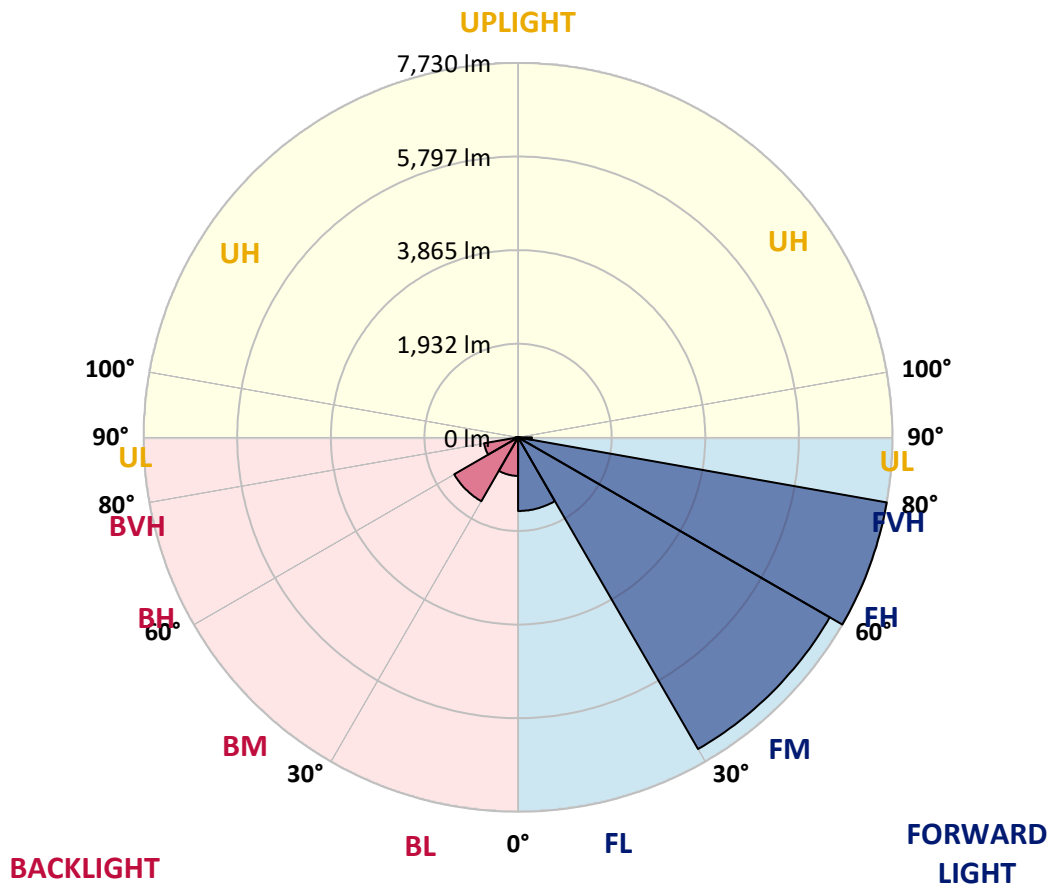
CATALOG NUMBER: GWS-SA6B-735-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1520.3	7.6			
FM (30°-60°)	7430.2	37.0			
FH (60°-80°)	7729.8	38.5			G4/12000
FVH (80°-90°)	285.9	1.4			G3/500
BL (0°-30°)	796.1	4.0	B2/1000		
BM (30°-60°)	1522.6	7.6	B2/2500		
BH (60°-80°)	713.0	3.6	B2/1000		G2/1000
BVH (80°-90°)	57.4	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-G4

Type IV Short





REPORT NUMBER: P641668

CATALOG NUMBER: GWS-SA6B-735-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6
2.5°	3426.6	3432.6	3437.1	3443.0	3440.1	3431.1	3438.6	3438.6	3422.1	3404.1	3387.7
5°	3431.1	3438.6	3437.1	3435.6	3423.6	3408.6	3408.6	3399.6	3371.2	3342.7	3315.8
7.5°	3422.1	3420.6	3419.1	3414.6	3401.1	3384.7	3381.7	3363.7	3326.3	3287.4	3248.4
10°	3381.7	3380.2	3384.7	3395.1	3392.1	3377.2	3377.2	3360.7	3317.3	3269.4	3218.5
12.5°	3348.7	3348.7	3366.7	3395.1	3405.6	3399.6	3401.1	3389.2	3339.8	3282.9	3223.0
15°	3353.2	3354.7	3393.6	3440.1	3459.5	3455.0	3456.5	3443.0	3387.7	3330.8	3249.9
17.5°	3383.2	3390.7	3458.0	3522.4	3547.8	3541.8	3531.4	3508.9	3446.0	3381.7	3282.9
20°	3446.0	3458.0	3544.8	3625.7	3655.6	3642.1	3624.2	3579.3	3510.4	3440.1	3318.8
22.5°	3570.3	3577.8	3673.6	3752.9	3776.9	3760.4	3724.5	3660.1	3580.8	3507.4	3362.2
25°	3745.4	3754.4	3845.7	3919.1	3913.1	3893.6	3844.2	3764.9	3670.6	3592.7	3425.1
27.5°	3953.5	3968.5	4058.3	4116.7	4077.8	4049.3	3993.9	3898.1	3791.8	3721.5	3520.9
30°	4181.1	4187.0	4263.4	4321.8	4261.9	4223.0	4155.6	4052.3	3956.5	3904.1	3664.6
32.5°	4401.1	4407.1	4473.0	4505.9	4443.0	4414.6	4356.2	4246.9	4179.6	4151.1	3878.7
35°	4633.1	4631.6	4685.5	4714.0	4649.6	4637.6	4577.8	4493.9	4481.9	4519.4	4191.5
37.5°	4865.2	4851.7	4880.1	4917.6	4881.6	4893.6	4854.7	4826.2	4872.7	4970.0	4607.7
40°	5050.8	5050.8	5080.7	5127.1	5139.1	5191.5	5169.1	5206.5	5356.2	5588.2	5122.7
42.5°	5215.5	5217.0	5279.8	5351.7	5438.5	5519.3	5537.3	5634.6	5944.5	6308.3	5769.3
45°	5387.6	5389.1	5474.4	5579.2	5763.4	5917.5	5953.5	6172.0	6615.1	7058.2	6471.4
47.5°	5586.7	5570.2	5688.5	5863.7	6125.6	6347.2	6440.0	6749.9	7309.7	7854.6	7133.1
50°	5811.3	5776.8	5908.6	6211.0	6534.3	6838.2	6993.9	7348.7	8055.2	8589.6	7755.8
52.5°	6064.2	6044.8	6182.5	6550.8	7044.8	7395.1	7606.1	8071.7	8779.8	9321.7	8249.8
55°	6378.6	6332.2	6531.3	6999.9	7643.6	8089.7	8339.7	8787.2	9571.7	9986.3	8627.1
57.5°	6722.9	6672.0	6938.5	7561.2	8422.0	8911.5	9224.4	9592.6	10317.2	10495.3	8848.6
60°	7094.2	7077.7	7393.6	8219.9	9350.1	9919.0	10145.0	10478.8	10965.3	10790.2	8793.2
62.5°	7434.0	7428.0	7887.6	8934.0	10333.6	10959.4	11139.0	11227.3	11432.4	10770.7	8353.1
65°	7791.8	7842.7	8463.9	9761.8	11460.8	12074.6	12149.5	11924.9	11589.6	10260.3	7451.9
67.5°	7836.7	7935.5	8826.2	10537.2	12529.7	13109.0	13049.1	12189.9	11125.5	8839.6	5841.2
70°	7008.8	7181.0	8248.3	10655.5	13282.7	13709.3	13276.7	11619.5	9441.4	6404.1	3673.6
72.5°	5856.2	6004.4	6947.5	9086.6	12311.1	12854.5	12269.2	9835.1	6672.0	3673.6	1871.2
75°	4558.3	4730.4	5600.2	7222.9	9216.9	9433.9	9140.5	6859.1	3667.6	1514.9	850.3
77.5°	2781.4	2905.6	3582.3	4893.6	6449.0	6124.1	5190.0	3845.7	1609.2	726.0	525.4
80°	1230.5	1306.9	1764.9	2628.7	3726.0	3522.4	2776.9	1642.2	880.2	461.1	366.8
82.5°	660.2	709.6	869.7	1040.4	1636.2	1711.0	1387.7	946.1	473.0	263.5	209.6
85°	290.4	318.9	395.2	377.2	537.4	528.4	532.9	649.7	226.0	121.3	136.2
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	16.5	86.8	22.5	35.9	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P641668
 CATALOG NUMBER: GWS-SA6B-735-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6	3405.6
2.5°	3369.7	3342.7	3335.3	3326.3	3309.8	3281.4	3260.4	3236.5	3226.0	3214.0	3215.5
5°	3285.9	3252.9	3221.5	3181.1	3130.2	3073.3	3034.4	2989.5	2965.5	2943.1	2949.0
7.5°	3214.0	3163.1	3098.7	3013.4	2922.1	2820.3	2738.0	2673.6	2630.2	2600.2	2615.2
10°	3169.1	3109.2	2996.9	2857.7	2703.5	2547.9	2429.6	2318.8	2250.0	2196.1	2193.1
12.5°	3160.1	3082.3	2919.1	2717.0	2494.0	2285.9	2112.2	1962.5	1871.2	1803.9	1829.3
15°	3169.1	3070.3	2851.7	2586.8	2305.3	2023.9	1808.3	1636.2	1526.9	1465.5	1461.0
17.5°	3179.6	3058.3	2775.4	2446.1	2107.7	1785.9	1535.9	1353.3	1241.0	1179.6	1181.1
20°	3188.6	3040.4	2685.6	2291.9	1907.1	1564.3	1305.4	1131.7	1031.4	986.5	994.0
22.5°	3203.5	3022.4	2589.8	2127.2	1702.1	1350.3	1122.7	982.0	922.1	892.2	893.7
25°	3232.0	3011.9	2491.0	1947.6	1500.0	1179.6	997.0	902.7	865.3	847.3	845.8
27.5°	3290.4	3020.9	2387.7	1773.9	1317.3	1049.4	916.1	854.8	829.3	817.3	815.9
30°	3387.7	3056.8	2297.9	1597.3	1160.2	947.6	860.8	823.3	808.4	797.9	796.4
32.5°	3535.9	3124.2	2200.6	1432.6	1032.9	872.7	817.3	797.9	787.4	781.4	781.4
35°	3760.4	3246.9	2104.7	1288.9	934.1	814.4	782.9	775.4	766.5	763.5	766.5
37.5°	4083.7	3443.0	2017.9	1163.2	863.8	769.4	745.5	748.5	741.0	745.5	750.0
40°	4493.9	3705.0	1944.6	1059.9	811.4	736.5	712.6	723.0	718.5	723.0	730.5
42.5°	5013.4	4029.9	1889.2	979.0	773.9	709.6	687.1	697.6	694.6	700.6	708.1
45°	5592.7	4458.0	1863.7	922.1	747.0	690.1	666.2	673.6	670.6	675.1	682.6
47.5°	6148.1	4847.2	1886.2	889.2	724.5	673.6	648.2	651.2	649.7	648.2	652.7
50°	6627.1	5157.1	1950.6	878.7	709.6	657.2	633.2	634.7	630.2	621.2	624.2
52.5°	7017.8	5405.6	1989.5	878.7	702.1	639.2	616.8	618.3	609.3	597.3	598.8
55°	7275.3	5505.9	1958.0	877.2	699.1	624.2	600.3	601.8	592.8	577.8	579.3
57.5°	7348.7	5408.6	1826.3	860.8	696.1	612.3	583.8	586.8	580.8	564.4	564.4
60°	7143.6	5052.3	1585.3	823.3	688.6	604.8	571.8	576.3	573.3	556.9	556.9
62.5°	6606.2	4419.1	1297.9	766.5	667.7	595.8	561.4	570.3	577.8	568.9	567.4
65°	5600.2	3540.3	1055.4	703.6	640.7	580.8	546.4	568.9	585.3	597.3	597.3
67.5°	4202.0	2534.4	860.8	637.7	600.3	550.9	526.9	547.9	559.9	567.4	571.8
70°	2561.3	1491.0	678.1	561.4	541.9	506.0	488.0	467.1	450.6	447.6	449.1
72.5°	1253.0	853.3	550.9	477.5	462.6	429.6	389.2	380.2	372.7	368.3	366.8
75°	690.1	594.3	455.1	396.7	369.8	329.3	320.4	305.4	302.4	296.4	297.9
77.5°	488.0	468.6	375.7	321.8	281.4	260.5	265.0	254.5	254.5	250.0	248.5
80°	366.8	368.3	288.9	235.0	208.1	200.6	205.1	205.1	202.1	200.6	199.1
82.5°	232.0	262.0	194.6	151.2	148.2	149.7	148.2	146.7	149.7	145.2	143.7
85°	160.2	188.6	118.3	89.8	89.8	88.3	91.3	89.8	92.8	88.3	88.3
87.5°	35.9	83.8	43.4	26.9	28.4	26.9	28.4	29.9	32.9	34.4	34.4
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)