

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: P637378

Luminaire Tested: GWS-SA4C-760-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637378
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-SA4C-760-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18808.6 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

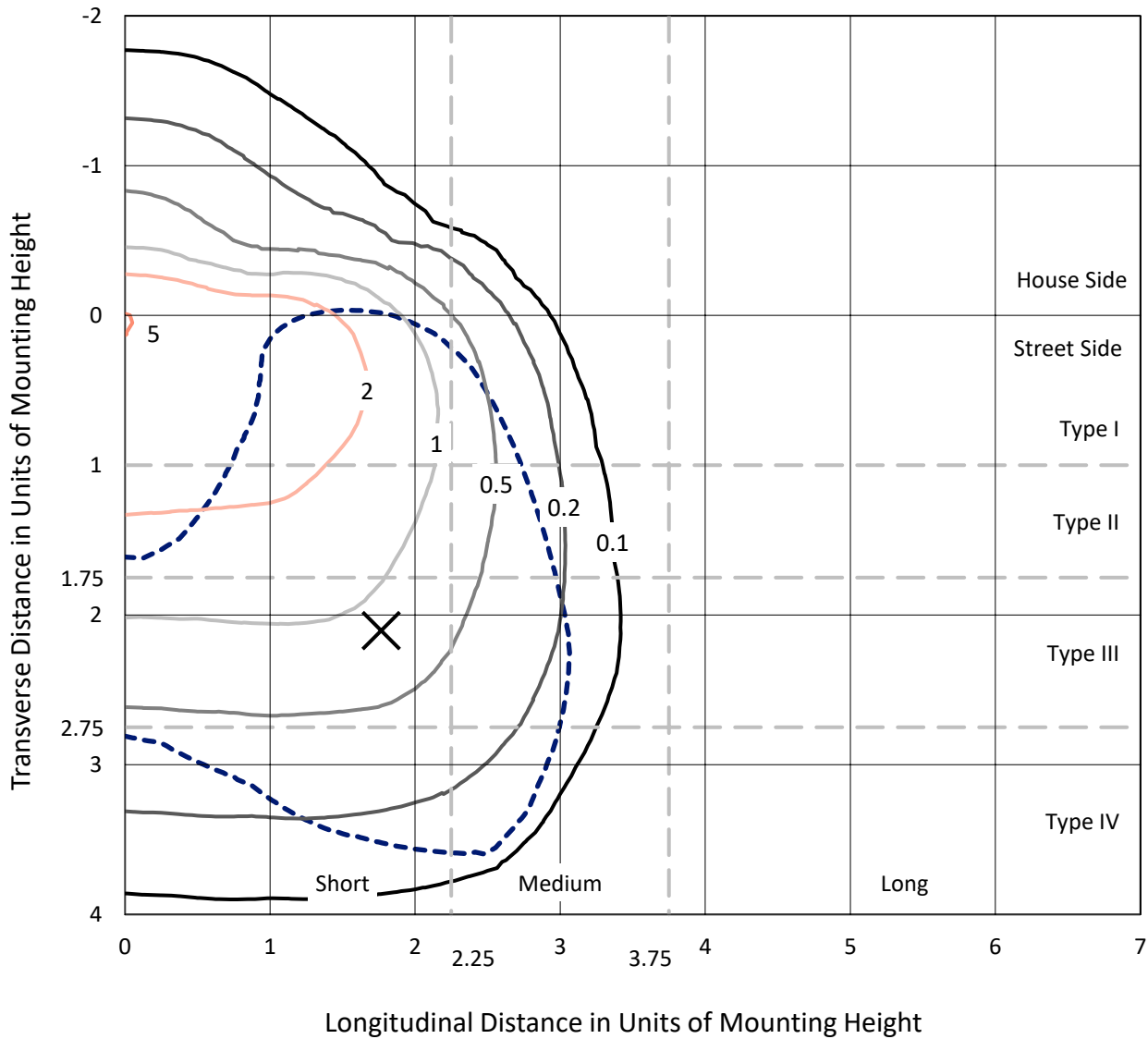
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

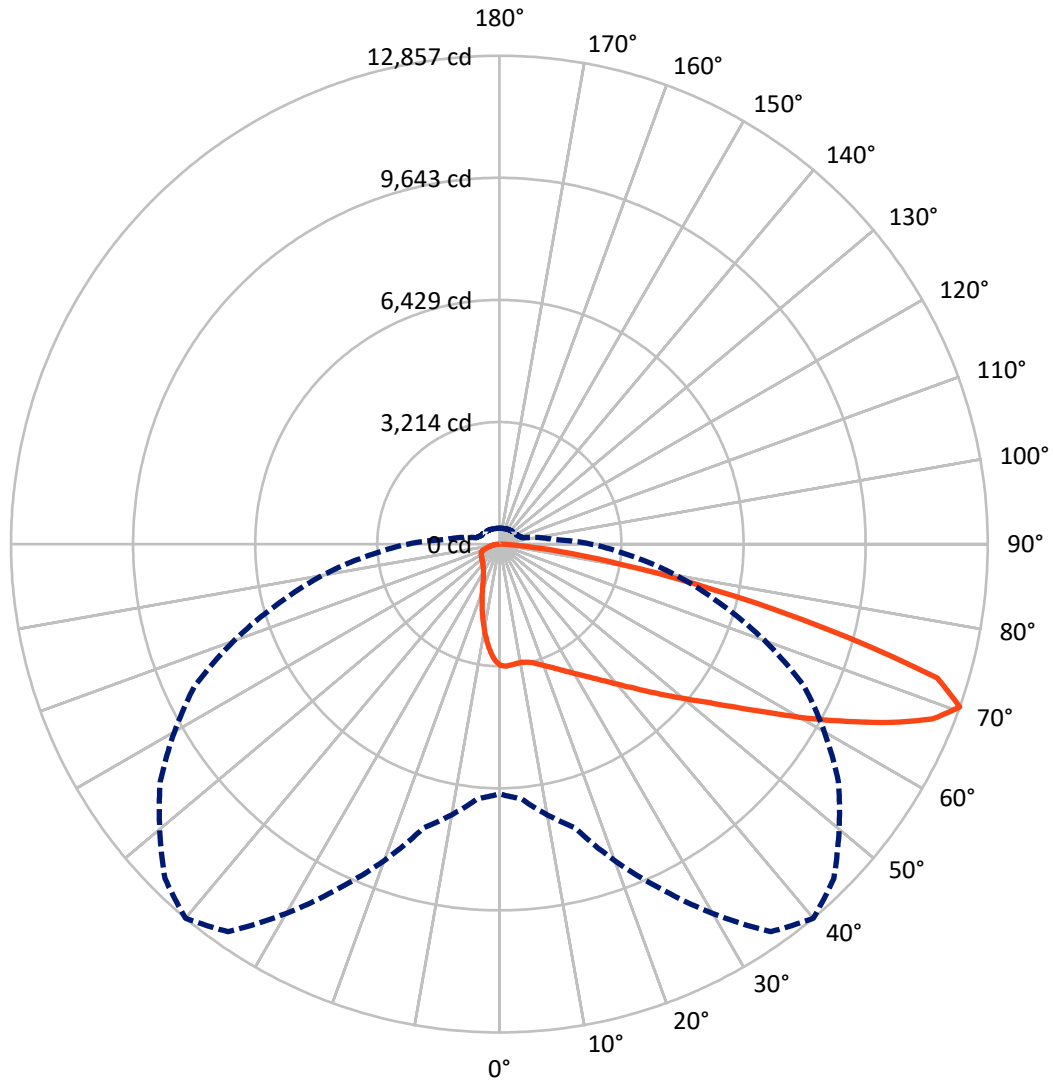
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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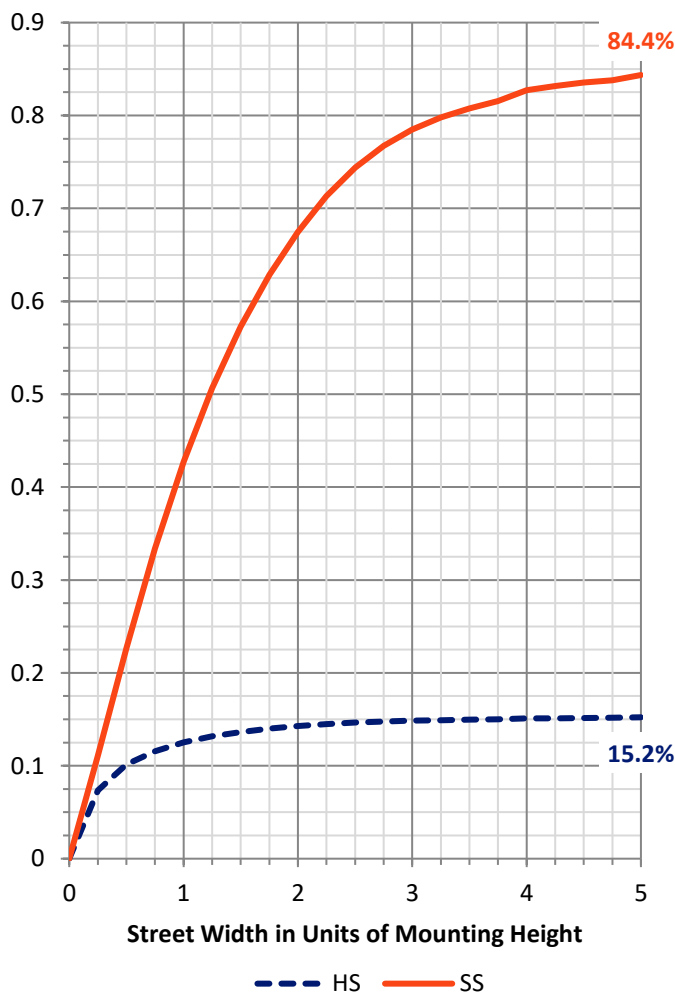
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2897.0	0.0	2897.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	15911.6	0.0	15911.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	18808.6	0.0	18808.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	1.5
10°-20°	735.5	3.9
20°-30°	1154.8	6.1
30°-40°	1736.3	9.2
40°-50°	2680.0	14.2
50°-60°	3980.0	21.2
60°-70°	5016.8	26.7
70°-80°	2901.2	15.4
80°-90°	322.0	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°	18808.6	100.0
0°-180°	18808.6	100.0

Coefficient of Utilization



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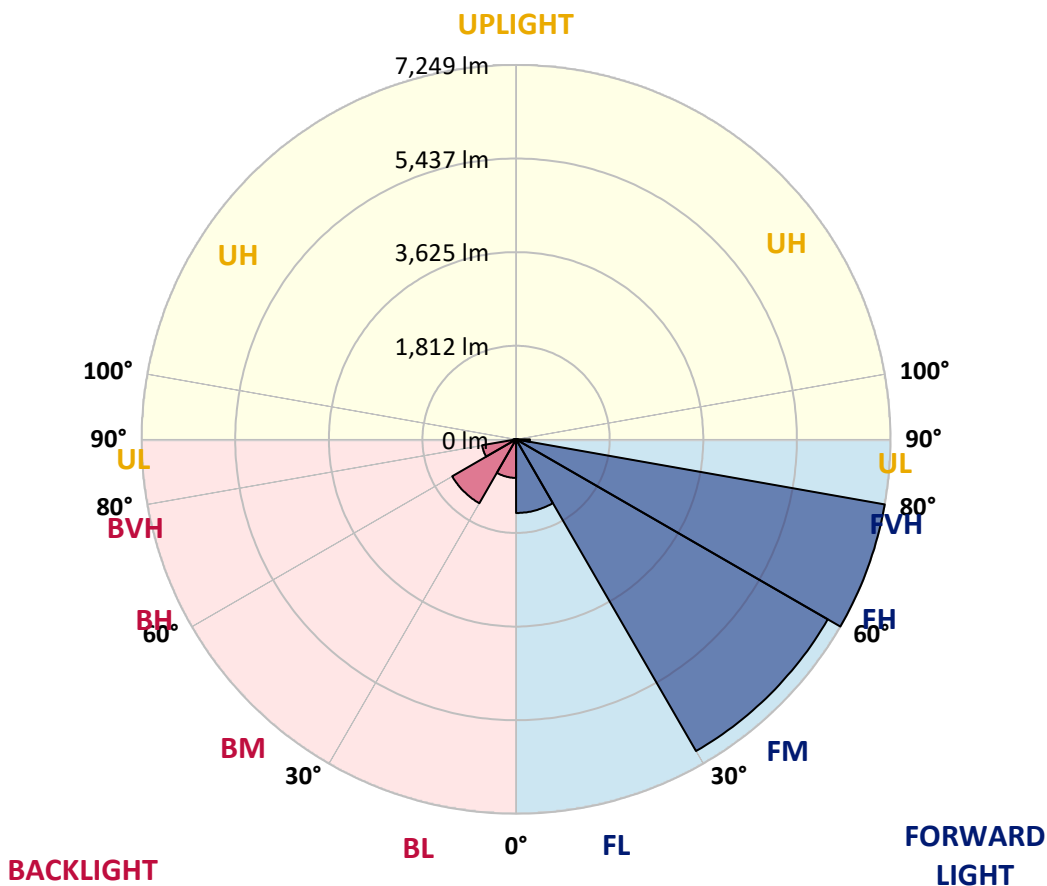
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.8	7.6			
FM (30°-60°)	6968.3	37.0			
FH (60°-80°)	7249.3	38.5			G3/7500
FVH (80°-90°)	268.1	1.4			G3/500
BL (0°-30°)	746.6	4.0	B2/1000		
BM (30°-60°)	1428.0	7.6	B2/2500		
BH (60°-80°)	668.6	3.6	B2/1000		G2/1000
BVH (80°-90°)	53.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9
2.5°	3213.6	3219.2	3223.4	3229.0	3226.2	3217.8	3224.8	3224.8	3209.4	3192.5	3177.1
5°	3217.8	3224.8	3223.4	3222.0	3210.8	3196.7	3196.7	3188.3	3161.6	3135.0	3109.7
7.5°	3209.4	3208.0	3206.6	3202.3	3189.7	3174.3	3171.5	3154.6	3119.5	3083.0	3046.5
10°	3171.5	3170.0	3174.3	3184.1	3181.3	3167.2	3167.2	3151.8	3111.1	3066.2	3018.4
12.5°	3140.6	3140.6	3157.4	3184.1	3193.9	3188.3	3189.7	3178.5	3132.1	3078.8	3022.6
15°	3144.8	3146.2	3182.7	3226.2	3244.5	3240.2	3241.6	3229.0	3177.1	3123.7	3047.9
17.5°	3172.9	3179.9	3243.1	3303.4	3327.3	3321.7	3311.8	3290.8	3231.8	3171.5	3078.8
20°	3231.8	3243.1	3324.5	3400.3	3428.4	3415.7	3398.9	3356.8	3292.2	3226.2	3112.5
22.5°	3348.3	3355.4	3445.2	3519.6	3542.1	3526.6	3493.0	3432.6	3358.2	3289.4	3153.2
25°	3512.6	3521.0	3606.7	3675.5	3669.8	3651.6	3605.3	3530.9	3442.4	3369.4	3212.2
27.5°	3707.8	3721.8	3806.0	3860.8	3824.3	3797.6	3745.7	3655.8	3556.1	3490.1	3302.0
30°	3921.1	3926.8	3998.4	4053.1	3997.0	3960.5	3897.3	3800.4	3710.6	3661.4	3436.8
32.5°	4127.5	4133.1	4194.9	4225.8	4166.8	4140.2	4085.4	3982.9	3919.7	3893.1	3637.6
35°	4345.1	4343.7	4394.3	4420.9	4360.6	4349.3	4293.2	4214.6	4203.3	4238.4	3931.0
37.5°	4562.7	4550.1	4576.8	4611.9	4578.2	4589.4	4552.9	4526.2	4569.8	4661.0	4321.3
40°	4736.8	4736.8	4764.9	4808.4	4819.7	4868.8	4847.7	4882.8	5023.2	5240.8	4804.2
42.5°	4891.3	4892.7	4951.6	5019.0	5100.4	5176.2	5193.1	5284.4	5575.0	5916.1	5410.7
45°	5052.7	5054.1	5134.1	5232.4	5405.1	5549.7	5583.4	5788.4	6203.9	6619.5	6069.1
47.5°	5239.4	5224.0	5334.9	5499.2	5744.8	5952.6	6039.7	6330.3	6855.3	7366.4	6689.7
50°	5450.0	5417.7	5541.3	5824.9	6128.1	6413.1	6559.1	6891.8	7554.5	8055.7	7273.7
52.5°	5687.3	5669.0	5798.2	6143.5	6606.8	6935.4	7133.3	7569.9	8234.0	8742.2	7737.0
55°	5982.1	5938.6	6125.3	6564.7	7168.4	7586.8	7821.2	8241.0	8976.7	9365.5	8090.8
57.5°	6305.0	6257.3	6507.2	7091.2	7898.4	8357.5	8650.9	8996.3	9675.8	9842.9	8298.6
60°	6653.2	6637.7	6934.0	7708.9	8768.9	9302.4	9514.4	9827.4	10283.7	10119.4	8246.6
62.5°	6971.9	6966.2	7397.2	8378.6	9691.3	10278.1	10446.6	10529.4	10721.7	10101.2	7833.9
65°	7307.4	7355.1	7937.8	9155.0	10748.4	11324.0	11394.2	11183.6	10869.1	9622.5	6988.7
67.5°	7349.5	7442.2	8277.5	9882.2	11750.8	12294.1	12238.0	11432.1	10433.9	8290.1	5478.1
70°	6573.1	6734.6	7735.6	9993.1	12457.0	12857.1	12451.4	10897.2	8854.5	6006.0	3445.2
72.5°	5492.1	5631.1	6515.6	8521.8	11545.8	12055.5	11506.5	9223.7	6257.3	3445.2	1754.9
75°	4274.9	4436.4	5252.1	6773.9	8643.9	8847.5	8572.3	6432.8	3439.6	1420.8	797.4
77.5°	2608.5	2725.0	3359.6	4589.4	6048.1	5743.4	4867.4	3606.7	1509.2	680.9	492.8
80°	1154.0	1225.6	1655.2	2465.3	3494.4	3303.4	2604.3	1540.1	825.5	432.4	344.0
82.5°	619.1	665.5	815.7	975.7	1534.5	1604.7	1301.4	887.3	443.6	247.1	196.5
85°	272.4	299.0	370.6	353.8	504.0	495.6	499.8	609.3	212.0	113.7	127.8
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	15.4	81.4	21.1	33.7	29.5
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°	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9	3193.9
2.5°	3160.2	3135.0	3127.9	3119.5	3104.1	3077.4	3057.7	3035.3	3025.4	3014.2	3015.6
5°	3081.6	3050.7	3021.2	2983.3	2935.6	2882.2	2845.7	2803.6	2781.2	2760.1	2765.7
7.5°	3014.2	2966.5	2906.1	2826.1	2740.5	2645.0	2567.8	2507.4	2466.7	2438.6	2452.6
10°	2972.1	2915.9	2810.6	2680.1	2535.5	2389.5	2278.6	2174.7	2110.1	2059.5	2056.7
12.5°	2963.7	2890.7	2737.6	2548.1	2338.9	2143.8	1980.9	1840.5	1754.9	1691.7	1715.6
15°	2972.1	2879.4	2674.5	2426.0	2162.0	1898.1	1695.9	1534.5	1432.0	1374.4	1370.2
17.5°	2981.9	2868.2	2602.9	2294.0	1976.7	1674.9	1440.4	1269.1	1163.8	1106.3	1107.7
20°	2990.3	2851.4	2518.6	2149.4	1788.6	1467.1	1224.2	1061.4	967.3	925.2	932.2
22.5°	3004.4	2834.5	2428.8	1995.0	1596.3	1266.3	1052.9	921.0	864.8	836.7	838.1
25°	3031.1	2824.7	2336.1	1826.5	1406.7	1106.3	935.0	846.6	811.5	794.6	793.2
27.5°	3085.8	2833.1	2239.3	1663.6	1235.4	984.1	859.2	801.6	777.8	766.5	765.1
30°	3177.1	2866.8	2155.0	1498.0	1088.0	888.7	807.3	772.2	758.1	748.3	746.9
32.5°	3316.1	2930.0	2063.8	1343.6	968.7	818.5	766.5	748.3	738.5	732.8	732.8
35°	3526.6	3045.1	1973.9	1208.8	876.0	763.7	734.2	727.2	718.8	716.0	718.8
37.5°	3829.9	3229.0	1892.5	1090.8	810.1	721.6	699.2	702.0	694.9	699.2	703.4
40°	4214.6	3474.7	1823.7	994.0	760.9	690.7	668.3	678.1	673.9	678.1	685.1
42.5°	4701.7	3779.4	1771.7	918.2	725.8	665.5	644.4	654.2	651.4	657.0	664.1
45°	5245.0	4180.9	1747.9	864.8	700.6	647.2	624.7	631.8	629.0	633.2	640.2
47.5°	5765.9	4545.9	1768.9	833.9	679.5	631.8	607.9	610.7	609.3	607.9	612.1
50°	6215.1	4836.5	1829.3	824.1	665.5	616.3	593.9	595.3	591.0	582.6	585.4
52.5°	6581.6	5069.6	1865.8	824.1	658.4	599.5	578.4	579.8	571.4	560.2	561.6
55°	6823.0	5163.6	1836.3	822.7	655.6	585.4	563.0	564.4	556.0	541.9	543.3
57.5°	6891.8	5072.4	1712.8	807.3	652.8	574.2	547.5	550.3	544.7	529.3	529.3
60°	6699.5	4738.2	1486.8	772.2	645.8	567.2	536.3	540.5	537.7	522.3	522.3
62.5°	6195.5	4144.4	1217.2	718.8	626.1	558.8	526.5	534.9	541.9	533.5	532.1
65°	5252.1	3320.3	989.8	659.8	600.9	544.7	512.4	533.5	548.9	560.2	560.2
67.5°	3940.8	2376.8	807.3	598.1	563.0	516.6	494.2	513.8	525.1	532.1	536.3
70°	2402.1	1398.3	636.0	526.5	508.2	474.5	457.7	438.0	422.6	419.8	421.2
72.5°	1175.1	800.2	516.6	447.9	433.8	402.9	365.0	356.6	349.6	345.4	344.0
75°	647.2	557.4	426.8	372.0	346.8	308.9	300.4	286.4	283.6	278.0	279.4
77.5°	457.7	439.4	352.4	301.8	263.9	244.3	248.5	238.7	238.7	234.5	233.1
80°	344.0	345.4	271.0	220.4	195.1	188.1	192.3	192.3	189.5	188.1	186.7
82.5°	217.6	245.7	182.5	141.8	139.0	140.4	139.0	137.6	140.4	136.2	134.8
85°	150.2	176.9	110.9	84.2	84.2	82.8	85.6	84.2	87.0	82.8	82.8
87.5°	33.7	78.6	40.7	25.3	26.7	25.3	26.7	28.1	30.9	32.3	32.3
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)