

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: P637252

Luminaire Tested: GWS-SA4C-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14619.8 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

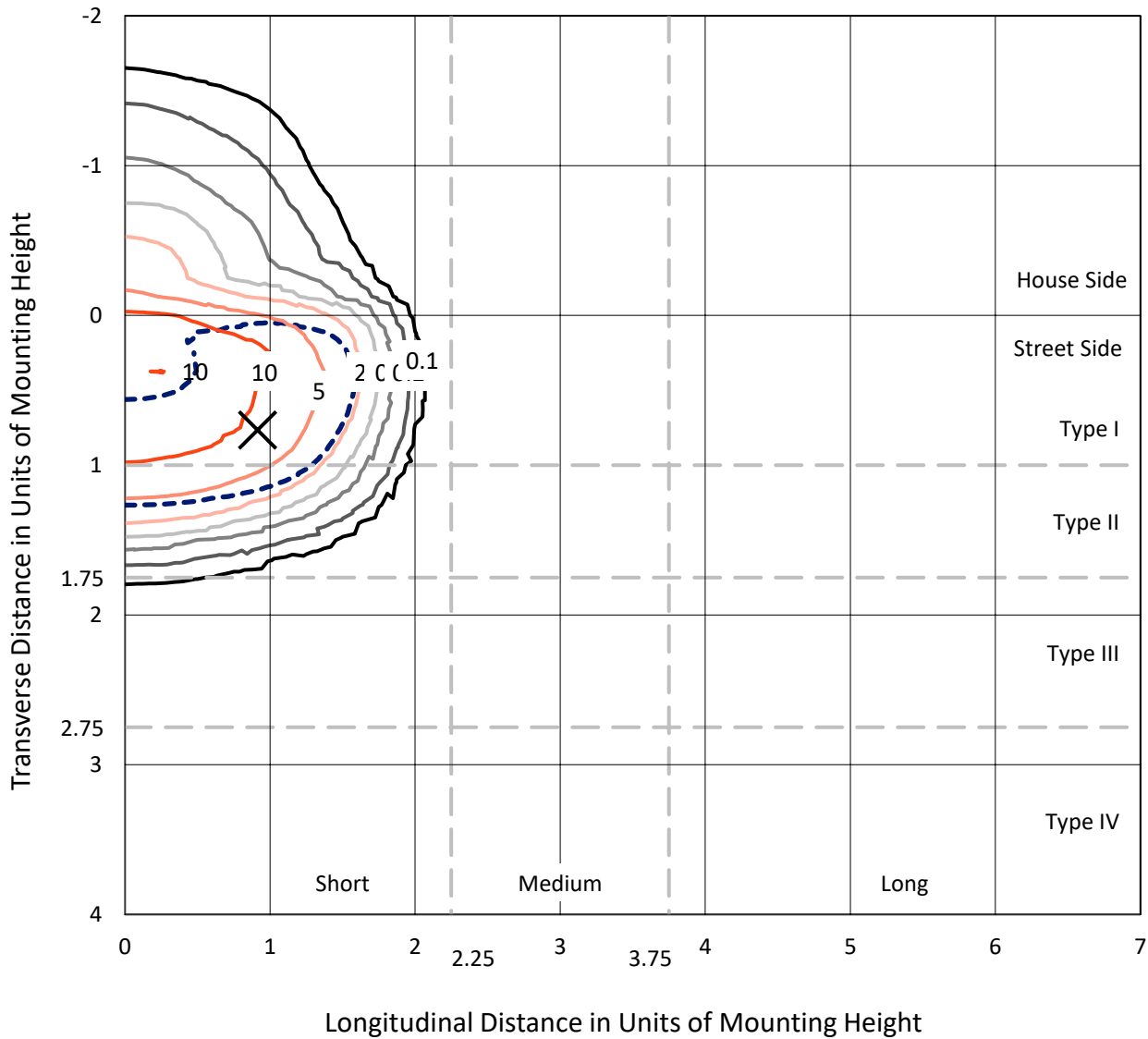
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

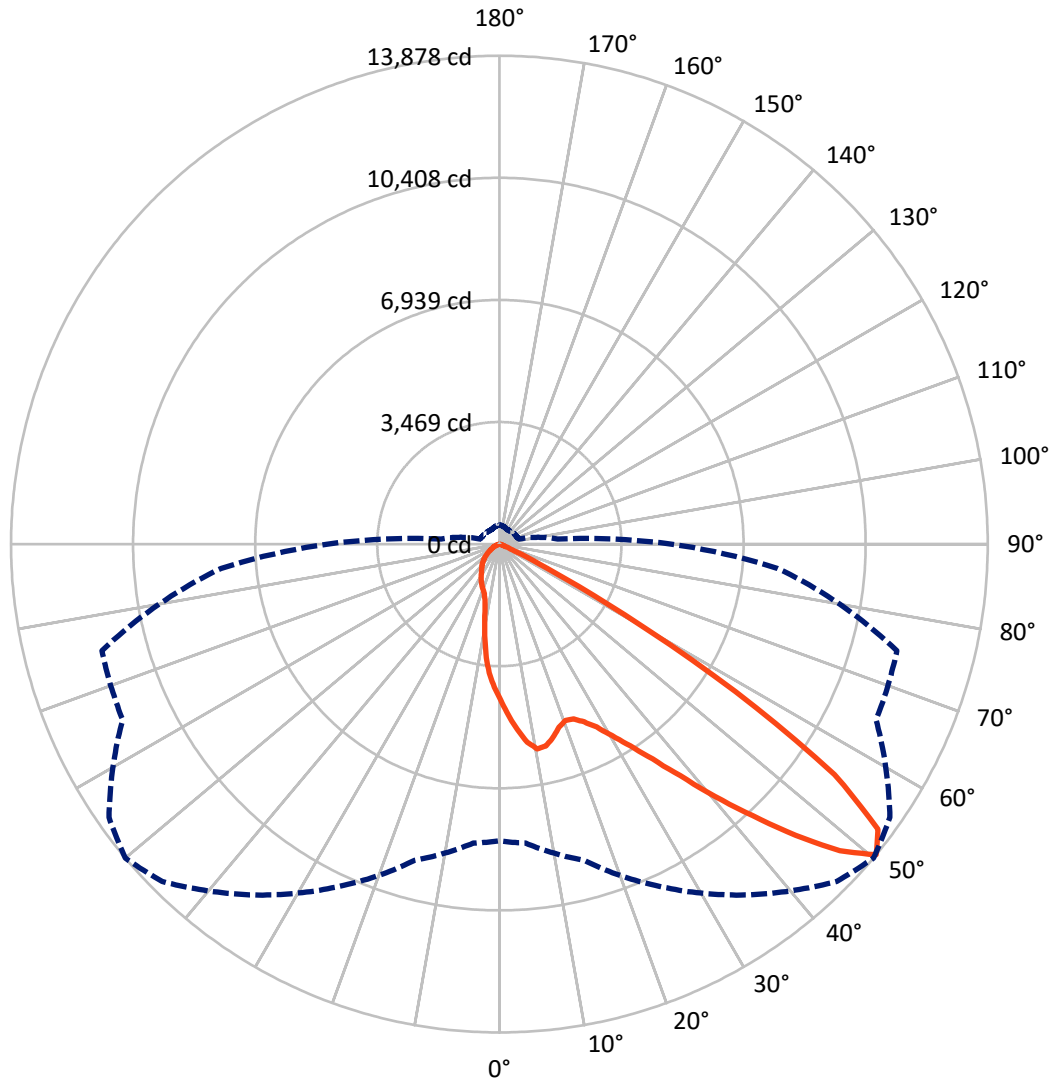
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

REPORT NUMBER: P637252
CATALOG NUMBER: GWS-SA4C-740-U-AFL-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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CATALOG NUMBER: GWS-SA4C-740-U-AFL-W-GRSBK

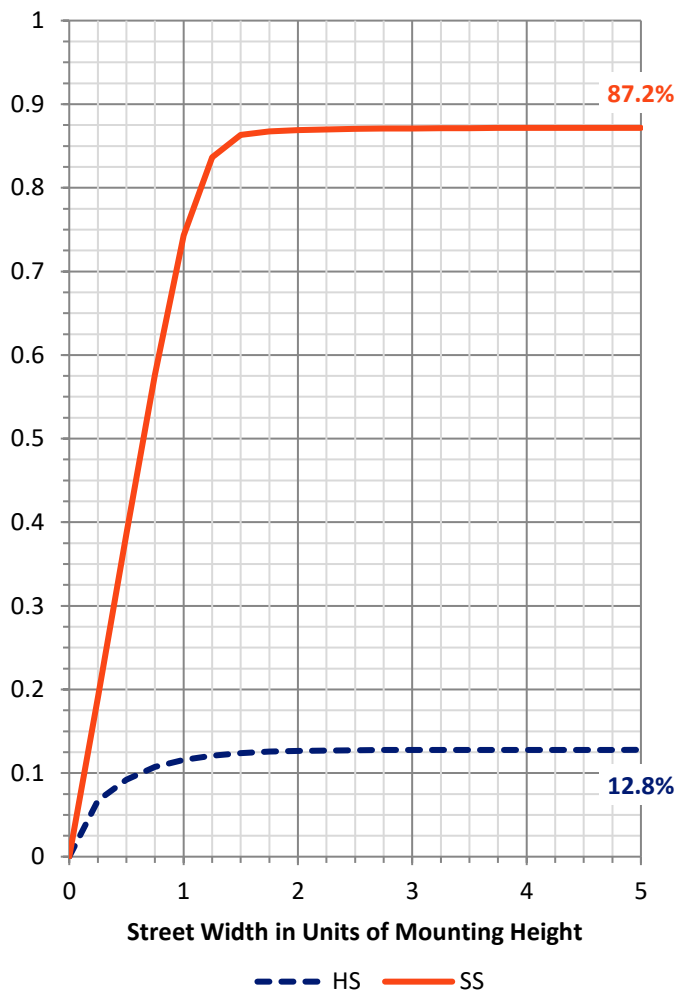
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1878.4	0.0	1878.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	12741.4	0.0	12741.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	14619.8	0.0	14619.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.9	2.8
10°-20°	1060.1	7.3
20°-30°	1749.5	12.0
30°-40°	2887.1	19.7
40°-50°	4568.1	31.2
50°-60°	3458.6	23.7
60°-70°	432.9	3.0
70°-80°	49.0	0.3
80°-90°	3.8	0.0
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°	14619.8	100.0
0°-180°	14619.8	100.0

Coefficient of Utilization



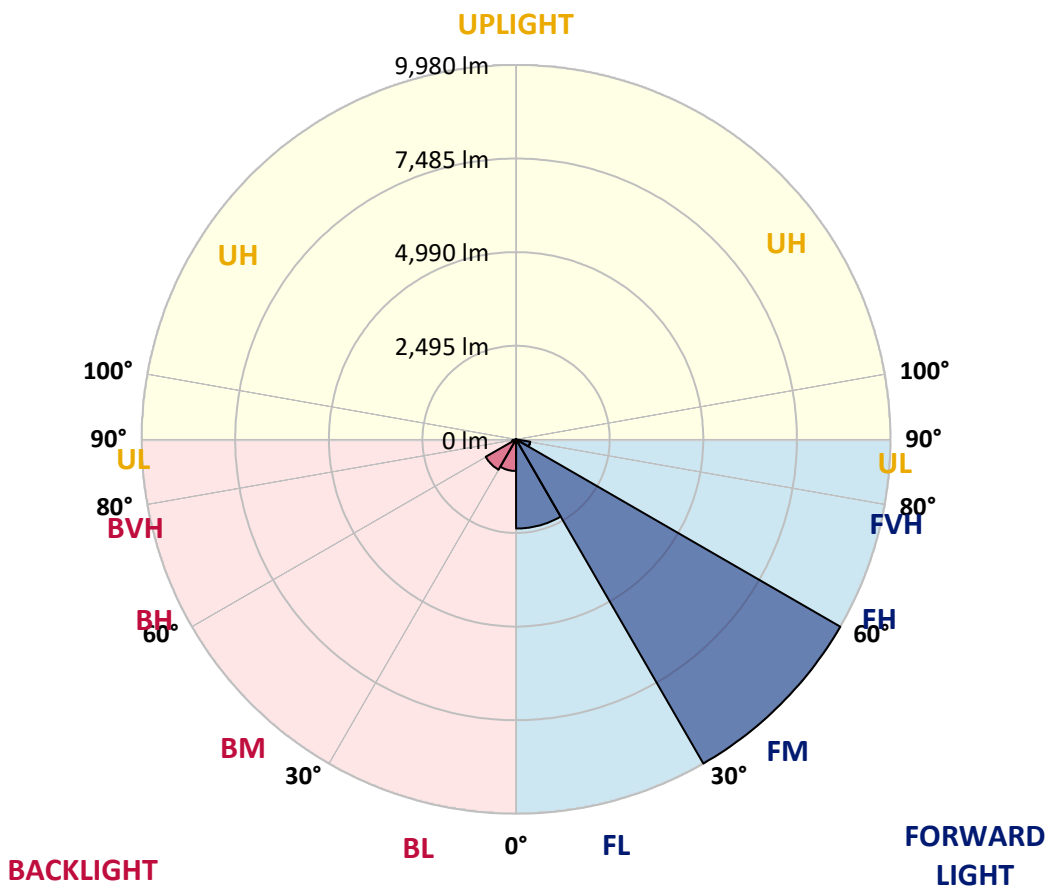
REPORT NUMBER: P637252

CATALOG NUMBER: GWS-SA4C-740-U-AFL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2377.4	16.3			
FM (30°-60°)	9979.5	68.3			
FH (60°-80°)	382.7	2.6			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	843.1	5.8	B2/1000		
BM (30°-60°)	934.2	6.4	B1/1000		
BH (60°-80°)	99.1	0.7	B0/110		G0/110
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CATALOG NUMBER: GWS-SA4C-740-U-AFL-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2
2.5°	5047.1	5087.4	5076.3	5023.4	4966.3	4926.0	4863.4	4843.9	4702.0	4603.2	4498.8
5°	5656.5	5669.1	5655.2	5591.1	5491.0	5394.9	5292.0	5232.1	4994.2	4779.9	4561.4
7.5°	5802.7	5787.3	5813.8	5845.8	5831.9	5790.1	5681.6	5616.2	5332.3	4983.0	4651.9
10°	5346.2	5311.4	5410.2	5575.8	5749.8	5946.0	5918.1	5923.7	5662.1	5239.1	4770.1
12.5°	4740.9	4727.0	4800.8	4992.8	5333.7	5779.0	5886.1	6065.6	5964.1	5516.0	4905.1
15°	4475.1	4482.1	4526.6	4647.7	4892.6	5446.4	5703.9	6028.1	6234.0	5784.6	5054.0
17.5°	4515.5	4540.5	4539.1	4579.5	4728.4	5172.3	5472.9	5909.8	6442.8	6093.5	5225.2
20°	4789.6	4814.7	4777.1	4746.5	4796.6	5102.7	5351.8	5790.1	6583.3	6405.2	5406.1
22.5°	5200.1	5229.3	5140.3	5052.6	5020.6	5216.8	5397.7	5741.4	6690.4	6690.4	5567.5
25°	5696.9	5737.2	5599.5	5443.6	5354.6	5457.6	5593.9	5851.4	6800.4	6946.5	5677.4
27.5°	6252.1	6253.5	6135.2	5959.9	5792.9	5805.4	5887.5	6099.0	6921.4	7222.0	5763.7
30°	6876.9	6881.1	6723.8	6513.7	6303.6	6246.5	6316.1	6476.1	7173.3	7568.5	5883.4
32.5°	7684.0	7703.5	7478.0	7169.1	6896.4	6789.2	6829.6	6998.0	7574.1	8002.6	6062.9
35°	8774.9	8795.8	8463.2	8055.5	7621.4	7460.0	7500.3	7670.1	8154.3	8619.1	6349.5
37.5°	9852.0	9879.8	9543.1	9163.2	8567.6	8300.4	8342.2	8503.6	9025.4	9470.7	6808.7
40°	10596.4	10634.0	10529.7	10273.6	9721.2	9370.5	9420.6	9479.1	9984.2	10489.3	7404.3
42.5°	10988.9	11041.7	11086.3	11217.1	10926.2	10632.6	10547.7	10551.9	10959.6	11527.4	8023.5
45°	11012.5	11064.0	11292.2	11797.3	12018.6	11957.4	11802.9	11698.5	11704.1	12219.0	8410.4
47.5°	10247.2	10343.2	10770.4	11759.8	12591.9	13099.8	13021.9	12774.2	12017.2	12264.9	8368.6
50°	8434.0	8528.6	9305.1	10728.6	12174.4	13556.2	13877.7	13545.1	11812.6	11693.0	7938.6
52.5°	6125.5	6135.2	6639.0	8301.8	10482.3	12714.3	13471.3	13439.3	11500.9	11000.0	7351.4
55°	2909.7	2874.9	3441.2	4685.3	7249.8	10283.4	11559.4	11921.2	11058.4	10499.0	6896.4
57.5°	847.4	864.1	1116.0	1828.5	3626.3	6572.2	7916.4	8589.9	9076.9	8631.6	5349.0
60°	379.9	381.3	424.4	556.6	1207.8	3057.2	4092.5	4926.0	5426.9	5029.0	2653.6
62.5°	275.5	276.9	293.6	314.5	410.5	1035.3	1534.9	2045.5	2083.1	1363.7	672.1
65°	229.6	229.6	232.4	232.4	246.3	370.1	466.2	601.1	506.5	375.7	263.0
67.5°	185.1	186.5	189.2	189.2	185.1	185.1	200.4	219.9	235.2	290.8	242.1
70°	144.7	143.3	143.3	144.7	140.5	119.7	129.4	147.5	161.4	226.8	210.1
72.5°	112.7	114.1	112.7	107.1	97.4	71.0	76.5	96.0	103.0	141.9	141.9
75°	84.9	86.3	80.7	61.2	40.4	22.3	29.2	47.3	59.8	69.6	51.5
77.5°	11.1	11.1	8.3	8.3	7.0	8.3	8.3	11.1	16.7	16.7	12.5
80°	1.4	1.4	1.4	2.8	4.2	5.6	5.6	5.6	5.6	7.0	7.0
82.5°	1.4	1.4	1.4	1.4	4.2	4.2	5.6	5.6	5.6	5.6	5.6
85°	0.0	0.0	0.0	1.4	2.8	4.2	4.2	5.6	5.6	5.6	5.6
87.5°	0.0	0.0	0.0	1.4	2.8	4.2	4.2	4.2	5.6	5.6	5.6
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°	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2	4429.2
2.5°	4436.2	4355.5	4258.1	4191.3	4096.6	4034.0	3945.0	3885.1	3833.6	3793.3	3815.6
5°	4437.6	4309.5	4110.6	3940.8	3755.7	3586.0	3403.7	3260.3	3130.9	3072.5	3104.5
7.5°	4465.4	4281.7	3977.0	3675.0	3320.2	2969.5	2641.1	2373.9	2241.7	2179.1	2198.6
10°	4519.7	4269.2	3828.1	3327.1	2751.0	2272.4	1953.7	1772.8	1699.0	1660.1	1667.0
12.5°	4569.8	4260.8	3634.7	2869.3	2170.8	1763.1	1597.5	1572.4	1587.7	1589.1	1587.7
15°	4637.9	4245.5	3395.3	2399.0	1736.6	1523.7	1527.9	1564.1	1600.3	1611.4	1608.6
17.5°	4710.3	4221.9	3086.4	1948.1	1473.6	1454.1	1502.8	1551.5	1587.7	1593.3	1594.7
20°	4785.4	4173.2	2734.3	1590.5	1351.2	1401.3	1455.5	1491.7	1518.2	1526.5	1529.3
22.5°	4820.2	4070.2	2328.0	1334.5	1269.1	1335.9	1376.2	1423.5	1431.9	1401.3	1406.8
25°	4802.1	3896.3	1931.4	1161.9	1187.0	1253.8	1313.6	1289.9	1255.2	1232.9	1239.8
27.5°	4745.1	3665.3	1543.2	1035.3	1099.3	1184.2	1191.1	1164.7	1159.1	1141.0	1146.6
30°	4683.9	3399.5	1241.2	933.7	1010.2	1099.3	1078.4	1088.2	1089.6	1068.7	1075.6
32.5°	4646.3	3121.2	988.0	865.5	953.2	969.9	1011.6	1031.1	1032.5	983.8	992.2
35°	4658.8	2847.1	836.3	809.9	900.3	896.1	954.6	965.7	885.0	818.2	825.2
37.5°	4760.4	2593.8	750.0	766.7	808.5	840.5	885.0	811.3	793.2	762.6	766.7
40°	4949.6	2378.1	698.5	740.3	745.9	797.3	729.2	738.9	740.3	720.8	725.0
42.5°	5170.9	2198.6	667.9	725.0	711.1	719.4	651.2	670.7	691.6	683.2	684.6
45°	5282.2	2023.3	641.5	672.1	676.3	597.0	581.7	602.5	629.0	633.1	634.5
47.5°	5183.4	1856.3	613.7	595.6	623.4	544.1	526.0	533.0	563.6	580.3	583.0
50°	4881.5	1664.3	571.9	527.4	512.1	488.4	471.7	473.1	507.9	537.1	542.7
52.5°	4457.0	1463.9	503.7	446.7	411.9	430.0	434.2	425.8	457.8	487.0	492.6
55°	4045.2	1213.4	399.4	363.2	331.2	370.1	381.3	370.1	379.9	399.4	400.8
57.5°	2848.4	686.0	306.1	300.6	274.1	317.3	335.4	318.7	302.0	314.5	317.3
60°	1320.6	359.0	235.2	235.2	228.2	272.7	303.4	279.7	247.7	253.3	257.4
62.5°	413.3	226.8	172.5	162.8	186.5	232.4	257.4	233.8	196.2	196.2	201.8
65°	233.8	194.8	136.4	125.2	151.7	186.5	201.8	176.7	143.3	140.5	140.5
67.5°	217.1	185.1	121.1	101.6	107.1	119.7	125.2	108.5	98.8	97.4	98.8
70°	179.5	154.5	97.4	69.6	65.4	64.0	66.8	62.6	59.8	61.2	65.4
72.5°	111.3	93.2	61.2	41.7	36.2	34.8	34.8	34.8	33.4	33.4	33.4
75°	40.4	34.8	27.8	20.9	18.1	16.7	16.7	18.1	16.7	15.3	13.9
77.5°	12.5	11.1	11.1	11.1	9.7	8.3	7.0	7.0	5.6	4.2	4.2
80°	7.0	7.0	7.0	7.0	5.6	5.6	4.2	2.8	1.4	1.4	0.0
82.5°	7.0	7.0	7.0	5.6	5.6	5.6	4.2	2.8	1.4	0.0	0.0
85°	5.6	5.6	5.6	5.6	5.6	5.6	4.2	2.8	1.4	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	4.2	2.8	1.4	0.0	0.0
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)