

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P483892

Luminaire Tested: **IFLD-S-SA3D-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483892
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

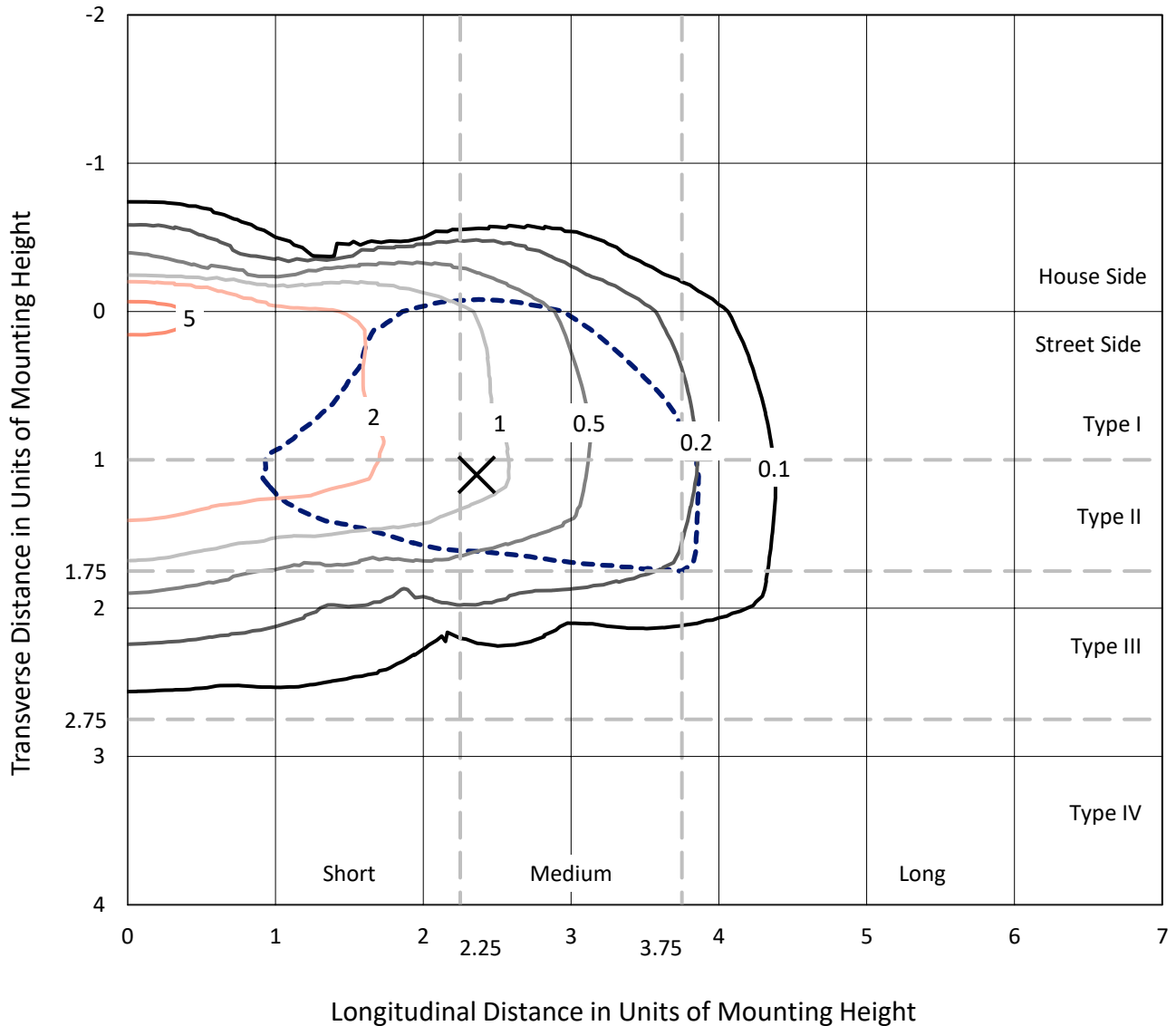
Lumens per Lamp: N/A
Luminaire Lumens: 16042.6 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P483892
 CATALOG NUMBER: IFLD-S-SA3D-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

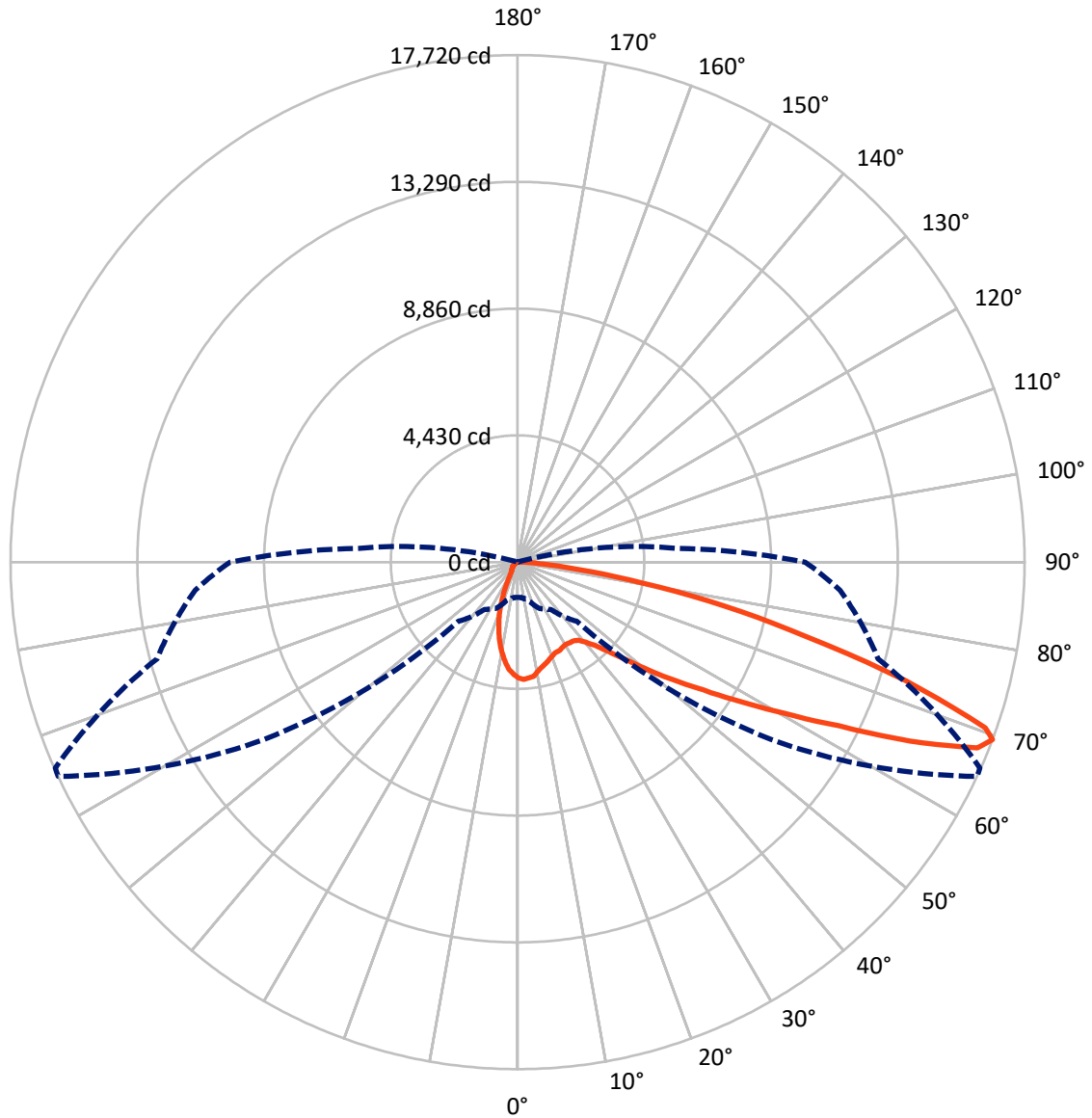
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P483892
CATALOG NUMBER: IFLD-S-SA3D-727-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P483892

CATALOG NUMBER: IFLD-S-SA3D-727-U-SL2-HSS

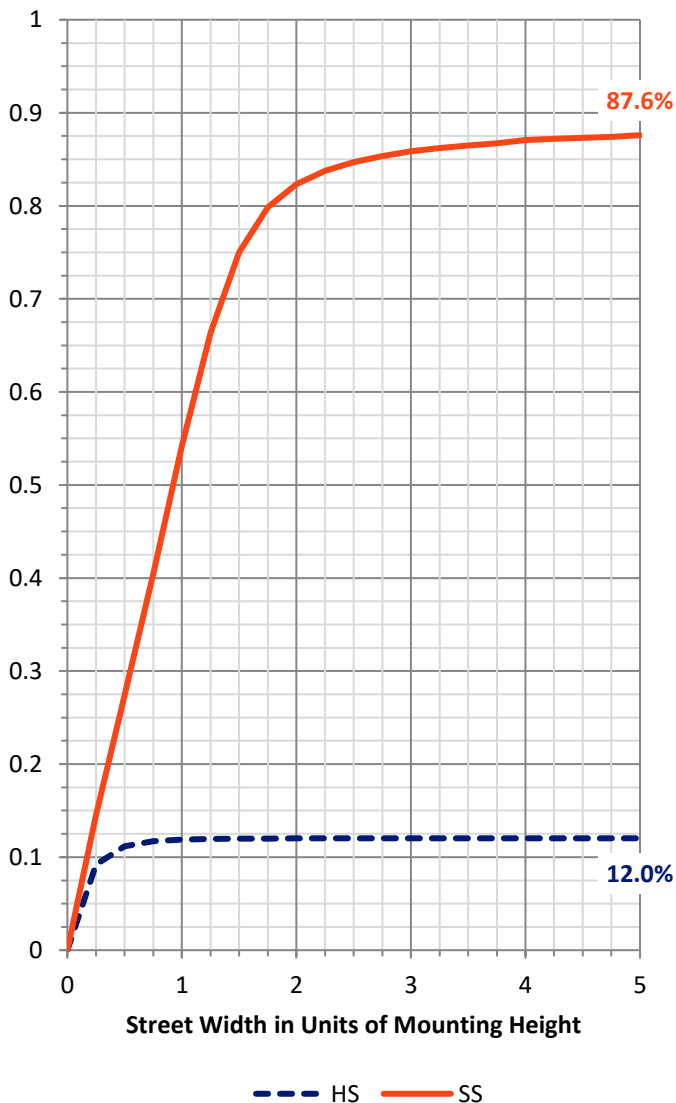
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1946.1	0.0	1946.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	14096.6	0.0	14096.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	16042.6	0.0	16042.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	2.1
10°-20°	724.2	4.5
20°-30°	1008.2	6.3
30°-40°	1428.8	8.9
40°-50°	2251.7	14.0
50°-60°	3653.8	22.8
60°-70°	4080.5	25.4
70°-80°	2297.8	14.3
80°-90°	266.6	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°	16042.6	100.0
0°-180°	16042.6	100.0



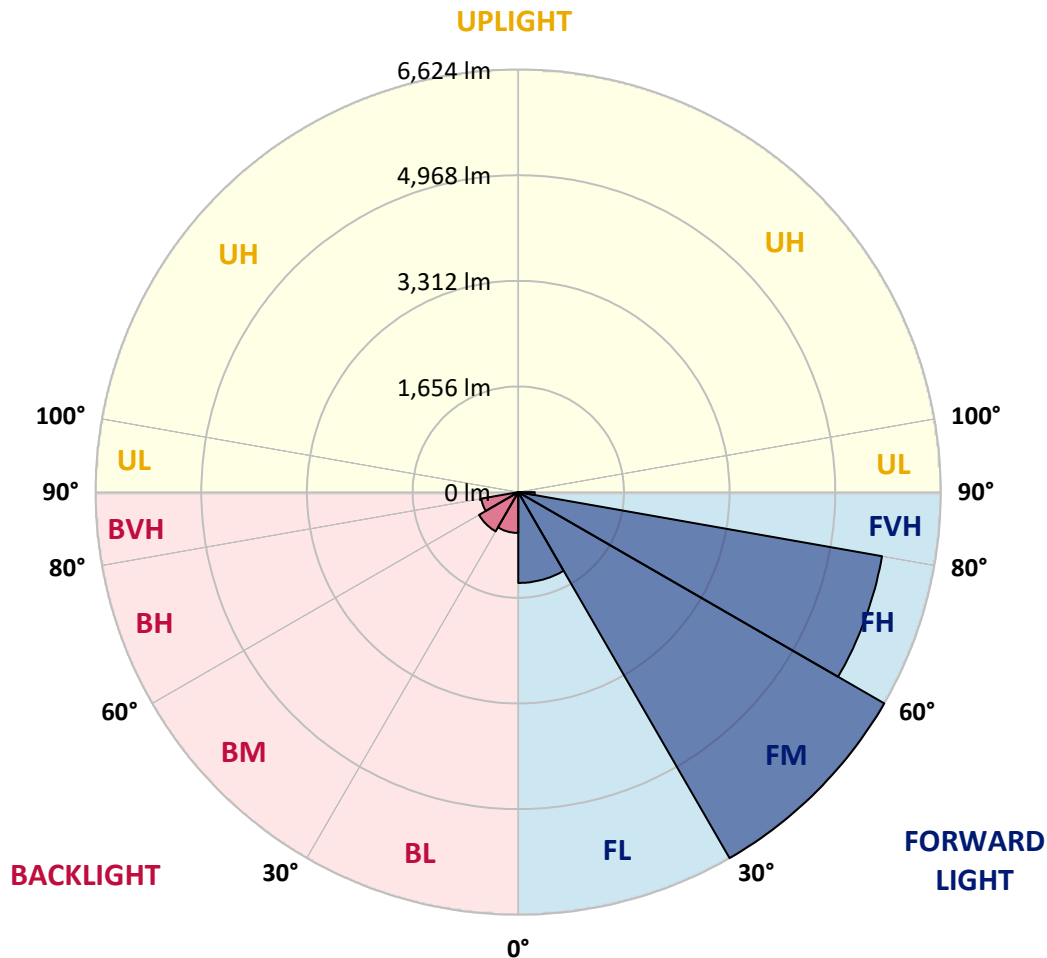
REPORT NUMBER: P483892
 CATALOG NUMBER: IFLD-S-SA3D-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.6	8.9			
FM (30°-60°)	6624.2	41.3			
FH (60°-80°)	5789.5	36.1			G3/7500
FVH (80°-90°)	259.3	1.6			G3/500
BL (0°-30°)	639.8	4.0	B2/1000		
BM (30°-60°)	710.1	4.4	B1/1000		
BH (60°-80°)	588.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	7.4	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-G3

Type II Medium





REPORT NUMBER: P483892

CATALOG NUMBER: IFLD-S-SA3D-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7
2.5°	3895.4	3925.7	3934.4	3964.7	3979.8	4044.7	4081.5	4103.2	4092.3	4116.1	4118.3
5°	3618.4	3601.1	3646.5	3679.0	3748.2	3860.8	3975.5	4064.2	4105.3	4144.3	4137.8
7.5°	3321.9	3313.3	3358.7	3432.3	3495.0	3631.4	3815.3	4033.9	4025.2	4120.5	4148.6
10°	3118.5	3127.1	3142.3	3215.9	3308.9	3447.4	3676.8	3880.3	3925.7	4127.0	4183.2
12.5°	2932.4	2947.5	2975.7	3051.4	3159.6	3302.4	3525.3	3763.4	3832.6	4090.2	4202.7
15°	2871.8	2837.2	2893.4	2949.7	3062.2	3189.9	3378.2	3674.7	3705.0	4046.9	4235.2
17.5°	2822.0	2800.4	2826.3	2871.8	2990.8	3094.7	3272.1	3579.4	3635.7	4029.6	4230.8
20°	2837.2	2817.7	2828.5	2863.1	2917.2	3014.6	3179.1	3488.5	3549.1	3949.5	4224.3
22.5°	2880.4	2895.6	2876.1	2884.8	2902.1	2951.8	3129.3	3423.6	3475.6	3934.4	4261.1
25°	3075.2	3049.2	3023.3	3012.4	2910.7	2932.4	3114.2	3419.3	3456.1	3880.3	4230.8
27.5°	3278.6	3257.0	3246.2	3183.4	3044.9	2980.0	3116.3	3358.7	3408.5	3858.6	4194.0
30°	3525.3	3553.5	3510.2	3434.4	3241.8	3081.7	3140.1	3328.4	3397.7	3776.4	4170.2
32.5°	3785.0	3800.2	3821.8	3765.6	3516.7	3235.3	3211.5	3356.5	3360.9	3776.4	4116.1
35°	4079.4	4057.7	4114.0	4118.3	3899.7	3508.0	3347.9	3376.0	3421.5	3759.1	4096.7
37.5°	4332.6	4369.3	4434.3	4538.1	4313.1	3893.2	3560.0	3466.9	3486.4	3839.1	4111.8
40°	4609.6	4646.3	4793.5	4897.4	4769.7	4326.1	3882.4	3679.0	3694.1	3958.2	4189.7
42.5°	4914.7	4986.1	5161.4	5343.2	5308.6	4875.7	4297.9	3990.6	3984.1	4254.6	4349.9
45°	5328.0	5423.3	5613.7	5823.6	5853.9	5505.5	4851.9	4455.9	4477.5	4642.0	4681.0
47.5°	5903.7	5899.4	6085.5	6319.2	6494.5	6159.1	5514.2	5081.3	5079.2	5254.5	5172.2
50°	6459.9	6462.0	6511.8	6782.3	7236.8	7065.8	6334.4	5912.4	5888.5	5975.1	5843.1
52.5°	6717.4	6687.1	6650.3	6977.1	7808.1	8208.5	7373.1	6853.7	6834.3	6782.3	6747.7
55°	6446.9	6457.7	6455.5	6795.3	8108.9	9413.9	8706.2	7890.4	7857.9	7695.6	7743.2
57.5°	5579.1	5544.5	5620.2	6150.4	7764.8	10236.2	10612.8	9197.5	9113.1	8574.2	8466.0
60°	4152.9	4163.8	4226.5	4851.9	6910.0	10409.4	12437.2	10731.8	10368.3	9193.1	9043.8
62.5°	2899.9	2878.3	2902.1	3252.7	4940.7	9716.9	13670.7	12597.3	12246.7	9896.5	9809.9
65°	2075.4	2047.2	2142.5	2356.7	2967.0	7429.4	13846.0	15081.7	14767.9	11019.7	10811.9
67.5°	1493.2	1488.9	1599.3	1988.8	2107.8	4278.4	12547.5	17332.4	17141.9	12352.7	11422.2
69°	1235.7	1237.9	1343.9	1781.1	2012.6	2921.6	10796.8	17719.7	17685.1	13040.9	11307.5
70°	1077.7	1086.4	1209.7	1657.7	1973.7	2402.2	9307.8	17338.9	17304.2	13175.1	10928.8
72.5°	664.4	670.9	833.2	1328.8	1876.3	1960.7	5566.1	14185.8	14304.8	12560.5	9416.1
75°	318.1	320.3	437.2	960.9	1809.2	1859.0	2982.1	10467.8	10718.8	10141.0	7358.0
77.5°	168.8	168.8	209.9	510.7	1465.1	1748.6	1770.2	7383.9	7591.7	6412.3	4183.2
80°	84.4	86.6	127.7	266.2	908.9	1714.0	1382.9	4404.0	4516.5	2616.4	1302.8
82.5°	32.5	34.6	60.6	160.1	471.8	1447.8	1214.1	2166.3	2138.1	612.4	318.1
85°	4.3	4.3	21.6	95.2	201.3	638.4	1002.0	904.6	874.3	134.2	153.7
87.5°	0.0	0.0	4.3	28.1	60.6	186.1	387.4	248.9	277.0	36.8	75.7
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: P483892

CATALOG NUMBER: IFLD-S-SA3D-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7	4044.7
2.5°	4107.5	4062.0	3992.8	3925.7	3854.3	3767.7	3672.5	3637.9	3577.3	3572.9	3607.6
5°	4103.2	4029.6	3908.4	3765.6	3562.1	3408.5	3241.8	3120.6	3027.6	2967.0	2982.1
7.5°	4124.8	4036.1	3826.1	3518.8	3257.0	2951.8	2694.3	2516.9	2354.6	2274.5	2265.8
10°	4090.2	3971.1	3663.8	3233.2	2848.0	2421.6	2045.1	1807.0	1564.7	1475.9	1480.3
12.5°	4109.6	3943.0	3488.5	2938.9	2408.7	1854.6	1404.5	1079.9	852.7	779.1	770.4
15°	4122.6	3882.4	3319.7	2586.1	1921.7	1263.8	813.7	612.4	541.0	528.0	525.9
17.5°	4072.9	3808.8	3081.7	2237.7	1424.0	768.3	541.0	499.9	486.9	478.3	473.9
20°	4070.7	3765.6	2876.1	1880.6	950.0	523.7	467.4	452.3	432.8	426.3	426.3
22.5°	4033.9	3674.7	2629.4	1488.9	606.0	450.1	419.8	396.0	374.4	365.7	363.6
25°	4023.1	3568.6	2397.8	1118.8	461.0	402.5	372.2	337.6	311.6	298.6	292.2
27.5°	3992.8	3477.7	2164.1	787.7	402.5	359.2	320.3	283.5	253.2	233.7	231.6
30°	3884.6	3382.5	1904.4	545.4	365.7	318.1	274.8	231.6	201.3	188.3	183.9
32.5°	3839.1	3293.8	1620.9	419.8	333.3	281.3	231.6	192.6	168.8	155.8	153.7
35°	3785.0	3163.9	1346.1	365.7	303.0	244.5	194.8	162.3	142.8	132.0	132.0
37.5°	3791.5	3060.1	1088.5	331.1	270.5	209.9	166.6	138.5	121.2	110.4	110.4
40°	3772.0	2977.8	846.2	300.8	240.2	179.6	140.7	116.9	101.7	90.9	88.7
42.5°	3860.8	2956.2	638.4	274.8	209.9	153.7	121.2	99.5	84.4	71.4	71.4
45°	4010.1	2990.8	497.7	251.0	179.6	132.0	103.9	82.2	67.1	58.4	56.3
47.5°	4408.3	3127.1	389.5	231.6	153.7	114.7	86.6	67.1	54.1	45.4	43.3
50°	4986.1	3432.3	331.1	203.4	129.8	97.4	71.4	51.9	43.3	34.6	32.5
52.5°	5808.5	3945.2	300.8	179.6	108.2	80.1	56.3	41.1	32.5	26.0	23.8
55°	6704.4	4585.8	272.7	151.5	90.9	64.9	45.4	32.5	23.8	17.3	15.1
57.5°	7403.4	5139.8	248.9	125.5	73.6	51.9	34.6	23.8	17.3	10.8	8.7
60°	8167.4	5529.3	218.6	99.5	60.6	39.0	26.0	17.3	13.0	6.5	6.5
62.5°	8955.1	5985.9	179.6	77.9	47.6	30.3	19.5	13.0	8.7	2.2	2.2
65°	10050.1	6343.0	138.5	60.6	36.8	21.6	15.1	10.8	4.3	0.0	0.0
67.5°	10359.6	6167.7	101.7	47.6	26.0	15.1	10.8	6.5	2.2	0.0	0.0
69°	10050.1	5555.3	88.7	41.1	21.6	13.0	8.7	4.3	2.2	0.0	0.0
70°	9485.3	5079.2	77.9	34.6	19.5	13.0	6.5	4.3	2.2	0.0	0.0
72.5°	7933.6	3895.4	60.6	26.0	15.1	10.8	6.5	4.3	0.0	0.0	0.0
75°	5819.3	2406.5	45.4	19.5	13.0	8.7	6.5	4.3	0.0	0.0	0.0
77.5°	3118.5	878.6	32.5	13.0	8.7	6.5	6.5	4.3	0.0	0.0	0.0
80°	854.8	259.7	23.8	8.7	6.5	4.3	4.3	2.2	0.0	0.0	0.0
82.5°	233.7	67.1	15.1	8.7	6.5	4.3	2.2	0.0	0.0	0.0	0.0
85°	125.5	26.0	8.7	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	64.9	8.7	6.5	4.3	4.3	2.2	0.0	0.0	0.0	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)