

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: P484765

Luminaire Tested: **IFLD-S-SA6D-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484765
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

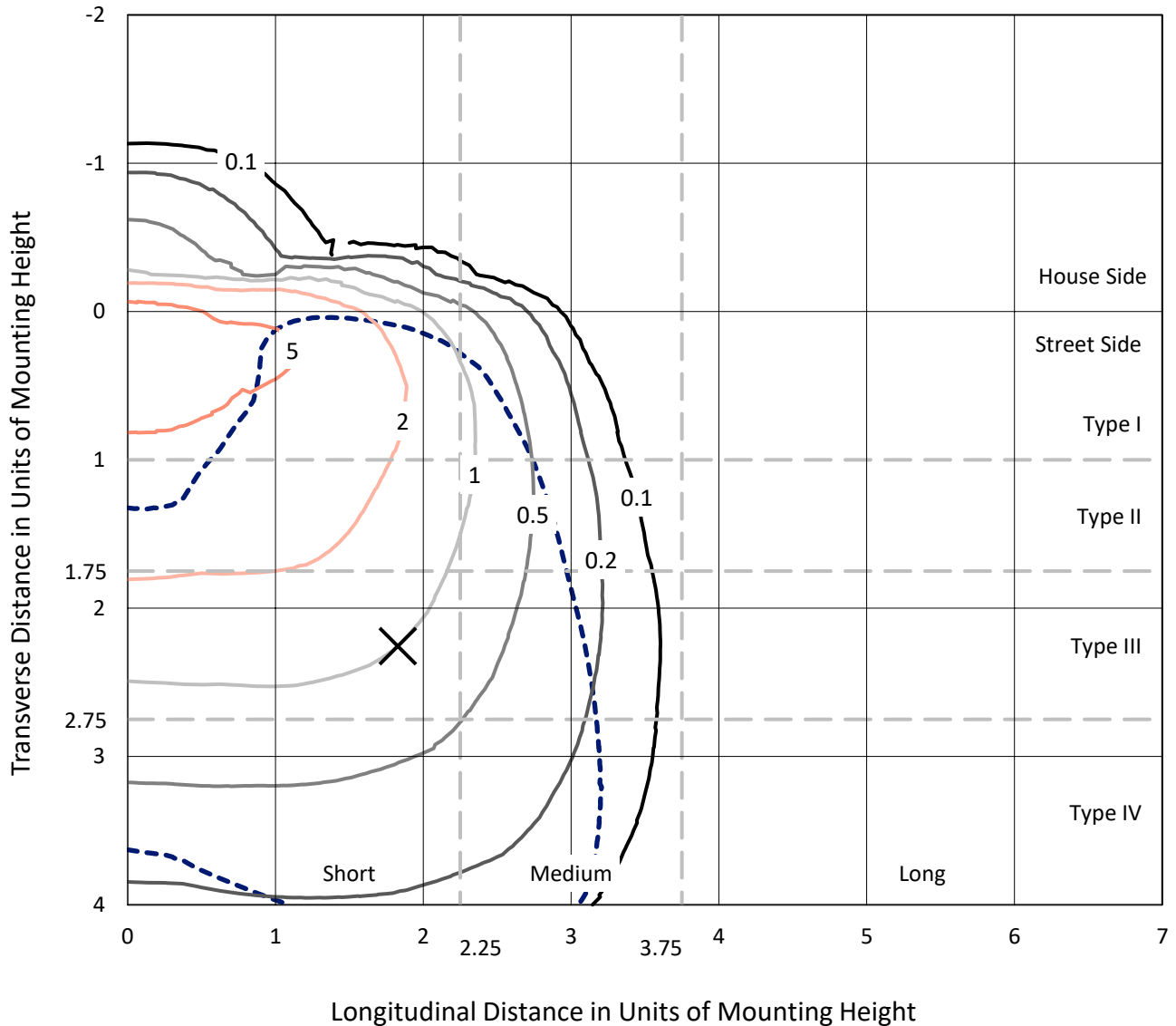
Lumens per Lamp: N/A
Luminaire Lumens: 37254.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 368.2
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

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Iso-Footcandle Lines of Horizontal Illumination

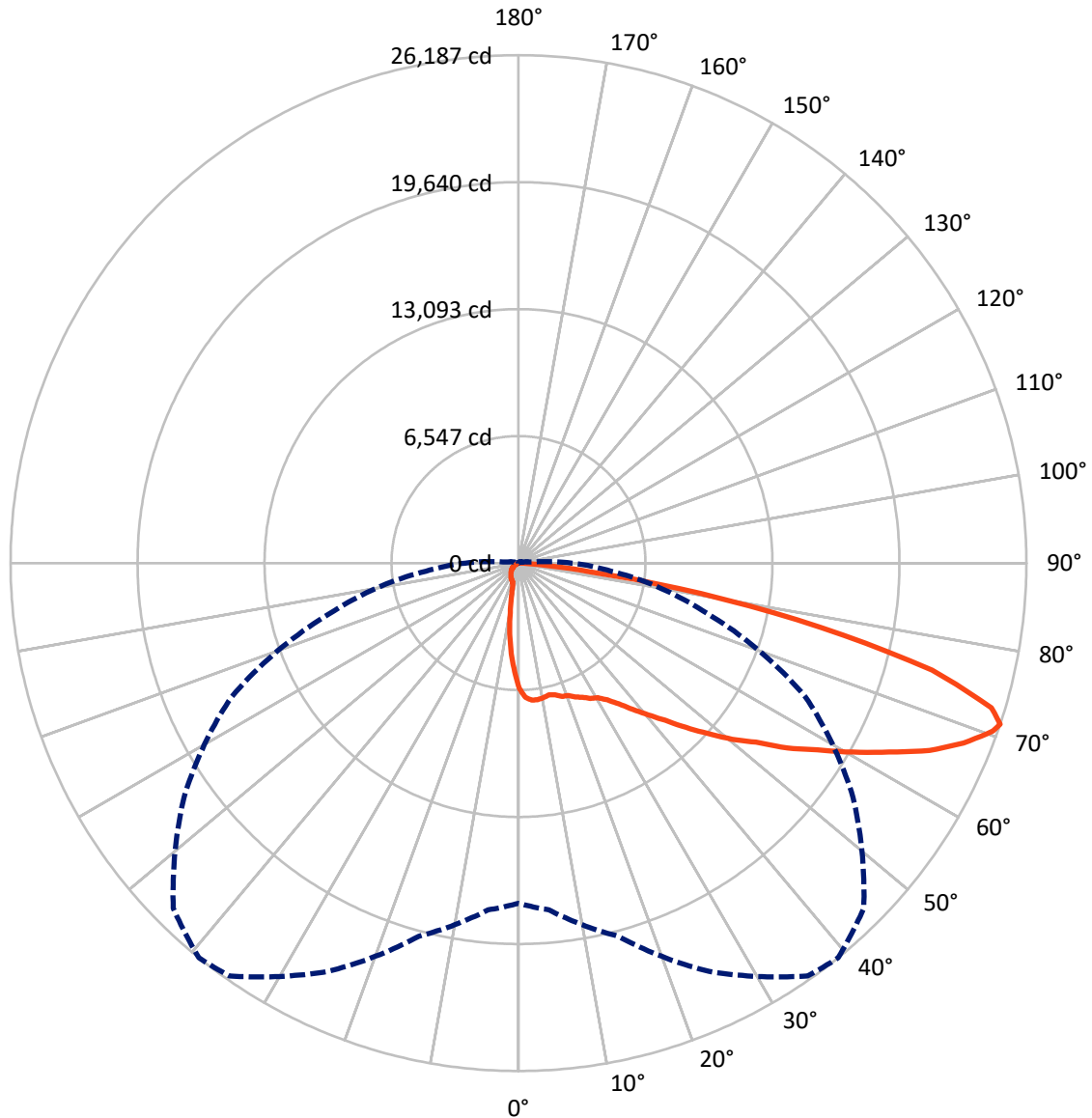
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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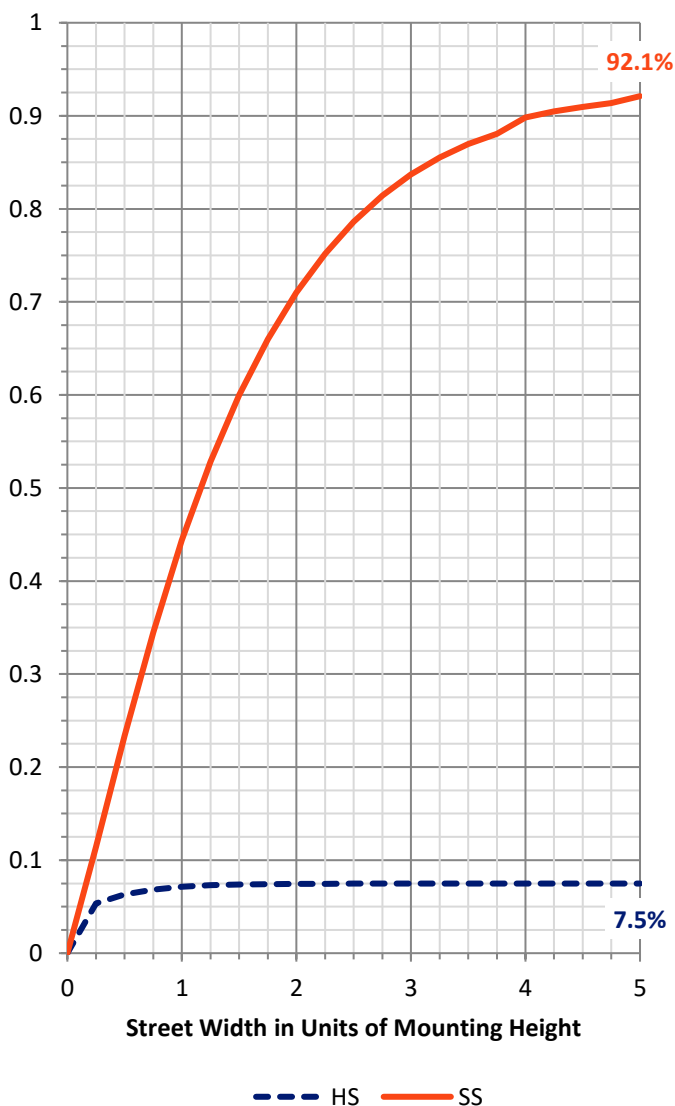
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2804.7	0.0	2804.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	34449.5	0.0	34449.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	37254.1	0.0	37254.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.1	1.5
10°-20°	1334.4	3.6
20°-30°	2142.1	5.8
30°-40°	3279.1	8.8
40°-50°	5263.5	14.1
50°-60°	7731.2	20.8
60°-70°	9737.2	26.1
70°-80°	6498.3	17.4
80°-90°	726.2	1.9
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°	37254.1	100.0
0°-180°	37254.1	100.0

Coefficient of Utilization



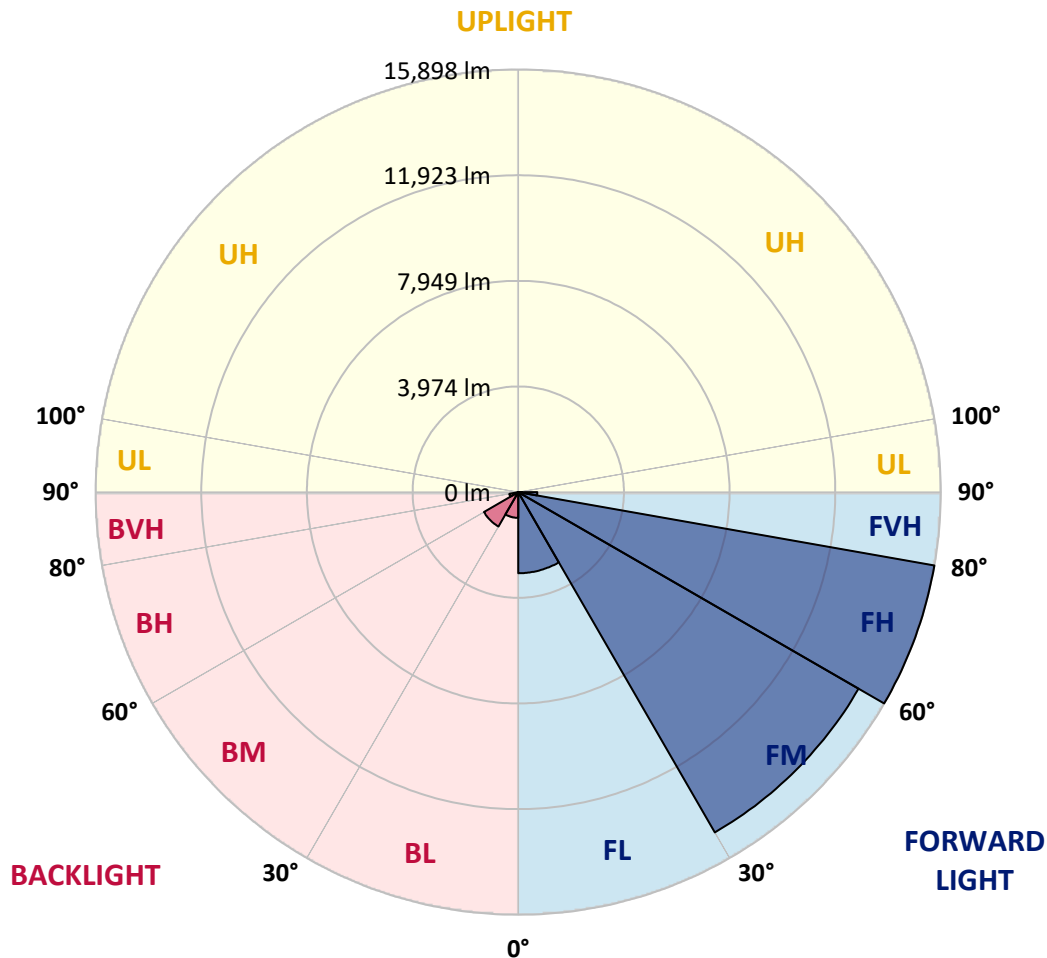
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3050.3	8.2			
FM (30°-60°)	14783.0	39.7			
FH (60°-80°)	15897.9	42.7			G5
FVH (80°-90°)	718.2	1.9			G4/750
BL (0°-30°)	968.3	2.6	B2/1000		
BM (30°-60°)	1490.8	4.0	B2/2500		
BH (60°-80°)	337.6	0.9	B1/500		G1/500
BVH (80°-90°)	8.0	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3
2.5°	6987.6	7056.0	6987.6	6958.3	6929.0	6933.9	6855.7	6870.4	6777.5	6655.3	6557.6
5°	7207.5	7300.4	7227.1	7192.9	7188.0	7095.1	7056.0	6963.2	6850.8	6660.2	6543.0
7.5°	7188.0	7168.4	7202.6	7173.3	7109.8	7109.8	7065.8	6933.9	6821.5	6606.5	6406.1
10°	7041.4	7100.0	7070.7	7036.5	7051.1	7056.0	6973.0	6880.1	6845.9	6630.9	6303.5
12.5°	7026.7	6929.0	7036.5	7041.4	6977.9	6973.0	6963.2	6938.8	6831.3	6635.8	6328.0
15°	6977.9	6938.8	7046.3	7051.1	7065.8	7051.1	7065.8	7046.3	6938.8	6826.4	6435.5
17.5°	7016.9	6973.0	7124.4	7197.7	7163.5	7231.9	7207.5	7119.6	7026.7	6894.8	6538.1
20°	7026.7	7090.2	7256.4	7285.7	7393.2	7280.8	7275.9	7183.1	7124.4	6982.7	6601.6
22.5°	7207.5	7236.8	7442.1	7505.6	7510.5	7495.8	7373.7	7266.2	7241.7	7065.8	6616.3
25°	7481.2	7583.8	7676.6	7715.7	7730.4	7662.0	7534.9	7398.1	7339.4	7227.1	6767.7
27.5°	7964.9	7901.4	7984.5	8043.1	7877.0	7901.4	7740.1	7622.9	7539.8	7442.1	6943.6
30°	8394.9	8336.3	8341.2	8331.4	8189.7	8057.8	8013.8	7808.5	7705.9	7745.0	7217.3
32.5°	8781.0	8653.9	8761.4	8712.5	8448.7	8409.6	8375.4	8116.4	8135.9	8316.7	7627.8
35°	9137.7	9093.7	9181.6	9093.7	8917.8	8908.0	8873.8	8649.0	8756.5	9015.5	8331.4
37.5°	9465.1	9479.7	9587.2	9543.2	9557.9	9567.7	9548.1	9308.7	9616.5	10198.0	9152.3
40°	9768.0	9748.5	10012.3	10149.2	10178.5	10286.0	10286.0	10227.3	10701.3	11356.1	10290.9
42.5°	10090.5	10139.4	10481.4	10711.1	10989.6	11082.5	11209.5	11238.8	11971.8	12719.4	11453.8
45°	10618.3	10535.2	10970.1	11512.5	11756.8	12084.2	12279.7	12445.8	13330.2	14356.4	12616.8
47.5°	11287.7	11121.6	11502.7	12289.4	12856.3	13125.0	13476.8	13696.7	14561.6	15622.0	13716.3
50°	12030.4	11859.4	12045.1	13129.9	13789.6	14278.2	14727.8	15006.3	16052.0	17039.1	14517.6
52.5°	12870.9	12714.5	12743.9	14004.6	14977.0	15333.7	15924.9	16340.3	17381.1	17894.2	14801.1
55°	13765.1	13726.0	13633.2	14859.7	16017.8	16819.2	17175.9	17674.3	18744.4	18358.4	15108.9
57.5°	14664.2	14542.1	14674.0	15993.4	17689.0	18167.8	18661.4	18959.4	19501.8	18764.0	14991.6
60°	15509.6	15519.4	15705.1	17224.7	19110.9	19790.1	20234.8	20054.0	20278.8	18939.9	14722.9
62.5°	16223.0	16203.5	16672.6	18607.6	20992.2	21451.5	21783.8	20977.5	20640.4	19110.9	14253.8
65°	16863.1	17083.0	17820.9	20254.3	22761.1	23288.8	23088.5	21852.2	20992.2	18607.6	12934.4
67.5°	17346.9	17674.3	18954.5	21803.3	24383.4	24754.8	24476.2	22516.8	20576.8	16633.5	10535.2
70°	17630.3	17962.6	19765.7	23093.4	25678.3	25947.1	25292.3	22003.7	18153.2	12045.1	6572.3
71°	17542.4	17947.9	19922.1	23230.2	25986.1	26186.5	25170.1	21055.7	16325.6	10085.6	4793.6
72.5°	16745.9	17127.0	19272.2	23132.5	25614.8	25492.6	24217.3	18778.6	12851.4	6430.6	2477.4
75°	12304.1	12714.5	16540.6	20010.0	22863.7	22023.2	19599.6	13178.8	6704.2	1969.2	723.2
77.5°	6127.6	6196.0	10266.4	14527.4	16770.3	15934.7	13134.8	7349.2	2506.7	581.5	361.6
80°	2824.4	2843.9	3850.5	7525.1	10139.4	9543.2	7359.0	3625.7	1133.7	307.8	283.4
82.5°	1925.3	1954.6	2321.1	3117.6	4402.7	3713.7	2980.7	2321.1	649.9	185.7	278.5
85°	351.8	322.5	1299.8	1651.6	1700.5	1153.2	1031.0	2008.3	244.3	107.5	244.3
87.5°	0.0	4.9	180.8	674.3	605.9	268.8	351.8	488.6	24.4	34.2	44.0
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°	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3	6484.3
2.5°	6474.5	6420.8	6240.0	6039.7	5858.9	5717.1	5536.3	5453.3	5321.3	5248.0	5243.2
5°	6381.7	6235.1	5922.4	5585.2	5209.0	4896.2	4549.3	4353.8	4129.1	4060.6	4046.0
7.5°	6225.3	6015.2	5555.9	5081.9	4505.3	3953.1	3528.0	3073.6	2795.0	2677.8	2633.8
10°	6127.6	5873.5	5248.0	4539.5	3733.2	2956.3	2360.2	1876.4	1622.3	1500.1	1470.8
12.5°	6127.6	5854.0	4998.8	4021.5	2951.4	2023.0	1461.0	1182.5	1099.5	1070.1	1070.1
15°	6113.0	5814.9	4759.4	3488.9	2184.2	1358.4	1089.7	1031.0	1021.3	1016.4	1011.5
17.5°	6186.2	5746.5	4515.1	2917.2	1544.1	1070.1	1001.7	991.9	982.2	982.2	972.4
20°	6240.0	5707.4	4221.9	2311.3	1153.2	991.9	962.6	948.0	943.1	938.2	948.0
22.5°	6196.0	5648.7	3860.3	1729.8	1006.6	943.1	923.5	908.9	899.1	899.1	904.0
25°	6279.1	5595.0	3498.7	1304.7	943.1	899.1	879.6	869.8	864.9	860.0	850.2
27.5°	6391.5	5619.4	3068.7	1050.6	889.3	855.1	835.6	825.8	820.9	811.2	820.9
30°	6528.3	5614.5	2594.7	918.7	840.5	806.3	786.7	781.8	772.1	767.2	772.1
32.5°	6762.8	5741.6	2106.1	850.2	786.7	757.4	737.9	733.0	728.1	723.2	718.3
35°	7266.2	5897.9	1646.7	796.5	737.9	703.6	689.0	679.2	674.3	669.4	664.6
37.5°	7886.7	6244.9	1255.8	747.6	689.0	654.8	640.1	635.2	615.7	610.8	605.9
40°	8663.7	6616.3	967.5	693.9	645.0	610.8	596.1	581.5	557.1	547.3	537.5
42.5°	9631.2	6977.9	796.5	645.0	596.1	571.7	547.3	522.9	503.3	483.8	474.0
45°	10598.7	7398.1	698.8	601.0	557.1	527.7	508.2	474.0	439.8	410.5	405.6
47.5°	11405.0	7549.6	640.1	552.2	518.0	493.5	464.2	420.2	371.4	342.1	337.2
50°	12006.0	7461.6	581.5	503.3	474.0	449.6	410.5	356.7	307.8	278.5	268.8
52.5°	12123.3	7075.6	527.7	464.2	430.0	400.7	356.7	298.1	244.3	215.0	210.1
55°	12040.2	6435.5	483.8	430.0	390.9	346.9	298.1	239.4	190.6	161.3	156.4
57.5°	11869.2	5678.1	434.9	386.0	342.1	298.1	244.3	195.5	141.7	112.4	112.4
60°	11287.7	4647.0	386.0	337.2	293.2	254.1	200.3	141.7	97.7	73.3	68.4
62.5°	10476.6	3572.0	337.2	288.3	254.1	210.1	156.4	102.6	58.6	39.1	39.1
65°	8996.0	2501.9	283.4	239.4	210.1	171.0	117.3	63.5	34.2	14.7	14.7
67.5°	6836.1	1549.0	234.5	200.3	180.8	136.8	83.1	39.1	14.7	4.9	0.0
70°	3923.8	806.3	185.7	161.3	141.7	102.6	58.6	19.5	9.8	0.0	0.0
71°	2741.3	596.1	166.1	141.7	127.0	92.8	48.9	14.7	4.9	0.0	0.0
72.5°	1373.1	395.8	141.7	117.3	102.6	73.3	39.1	14.7	4.9	0.0	0.0
75°	488.6	254.1	97.7	78.2	73.3	53.8	24.4	9.8	4.9	0.0	0.0
77.5°	337.2	205.2	68.4	48.9	48.9	34.2	14.7	4.9	4.9	0.0	0.0
80°	307.8	112.4	44.0	29.3	24.4	19.5	9.8	4.9	0.0	0.0	0.0
82.5°	307.8	83.1	24.4	19.5	14.7	9.8	4.9	0.0	0.0	0.0	0.0
85°	215.0	44.0	14.7	14.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	34.2	14.7	9.8	4.9	4.9	0.0	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)