

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: P484296

Luminaire Tested: **IFLD-S-SA6C-727-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484296
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

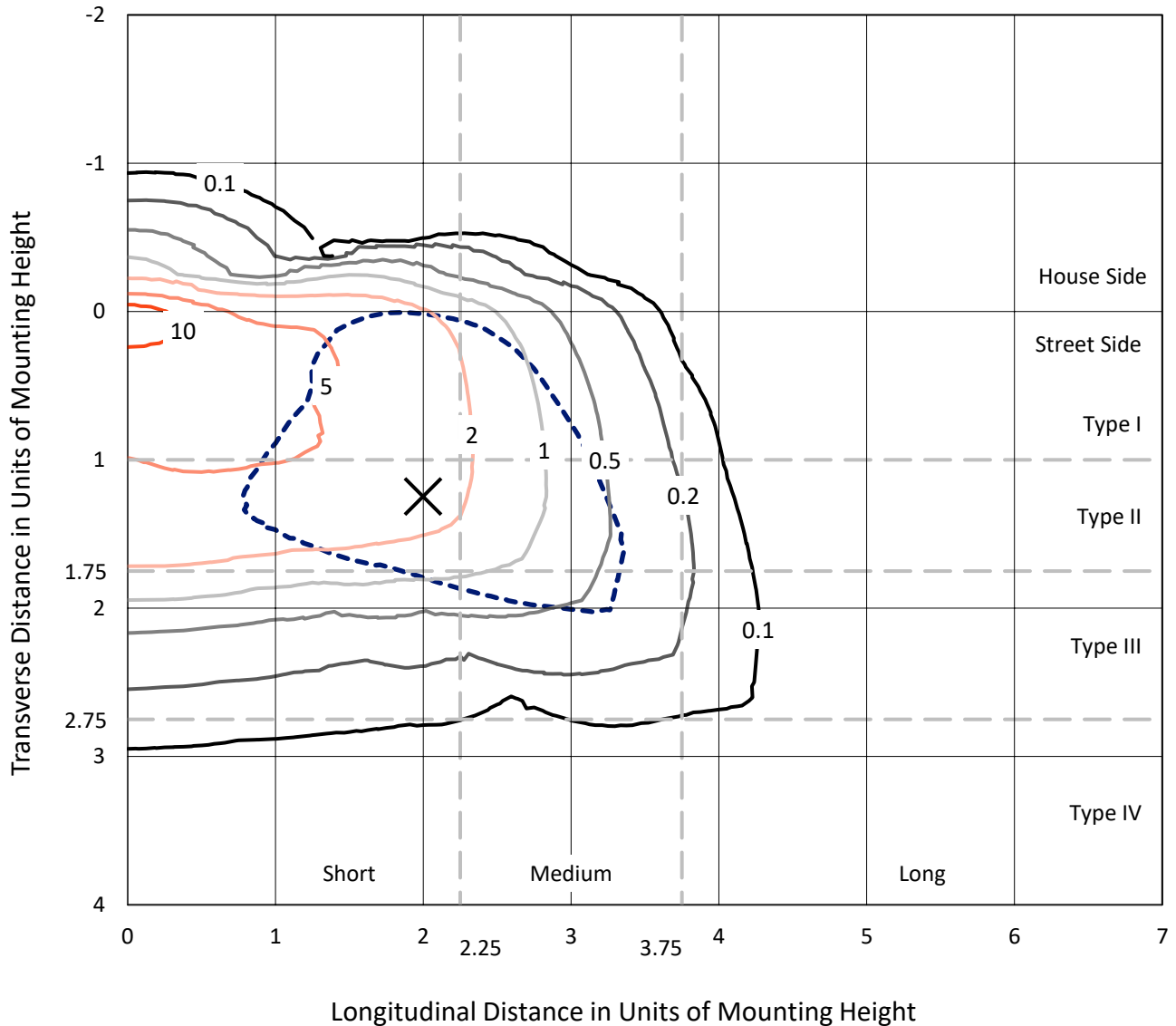
Lumens per Lamp: N/A
Luminaire Lumens: 29061.1 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5
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

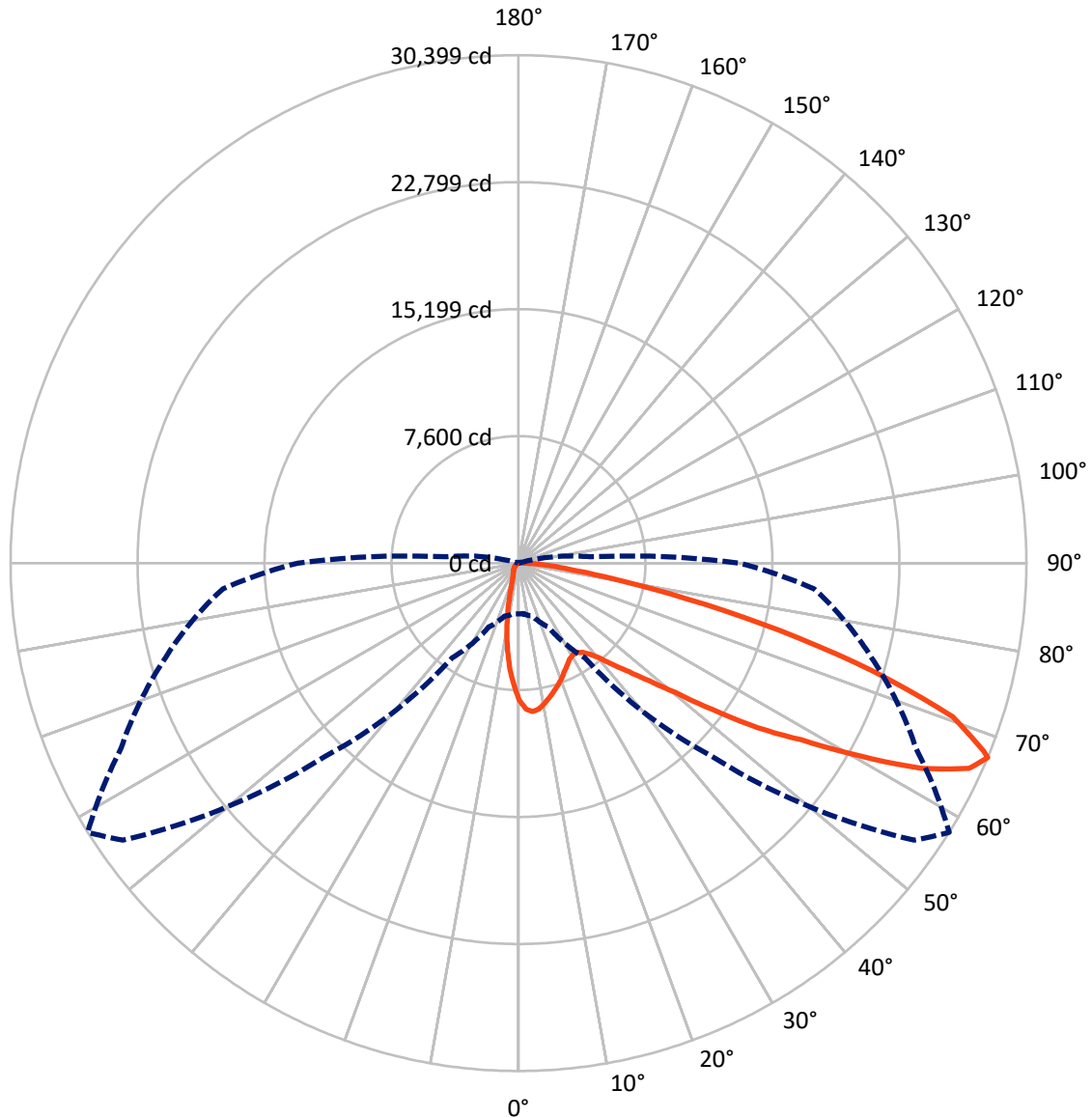
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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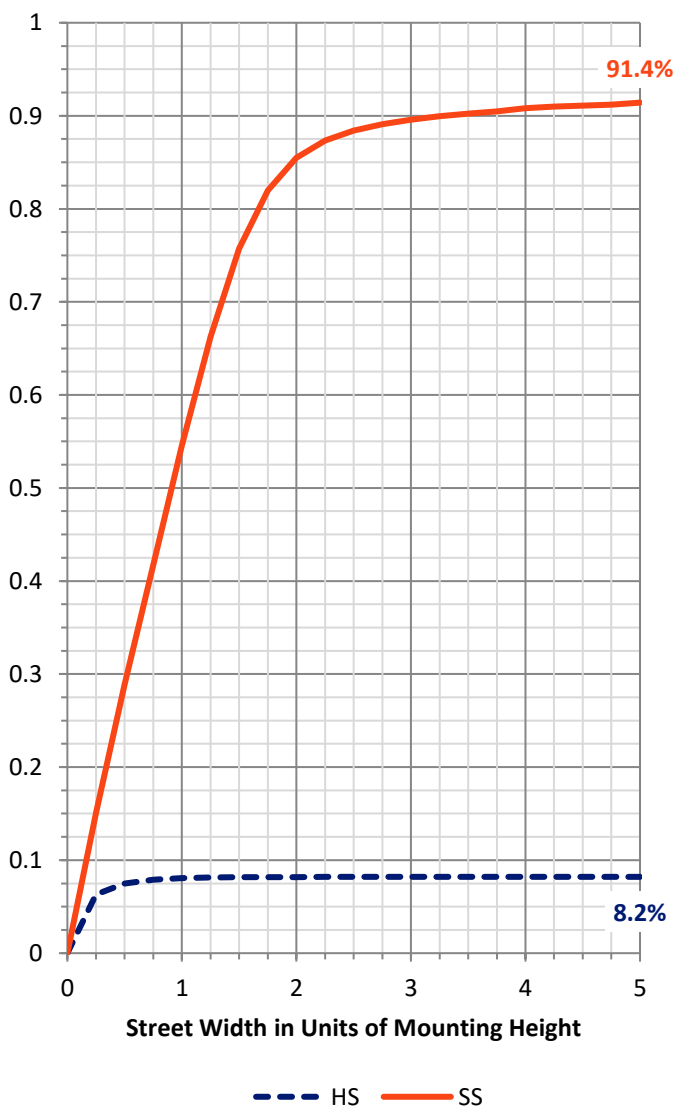
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2402.1	0.0	2402.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	26659.0	0.0	26659.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	29061.1	0.0	29061.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.3	2.2
10°-20°	1355.0	4.7
20°-30°	1797.8	6.2
30°-40°	2491.2	8.6
40°-50°	4064.9	14.0
50°-60°	7144.9	24.6
60°-70°	7913.5	27.2
70°-80°	3279.4	11.3
80°-90°	361.0	1.2
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°	29061.1	100.0
0°-180°	29061.1	100.0

Coefficient of Utilization

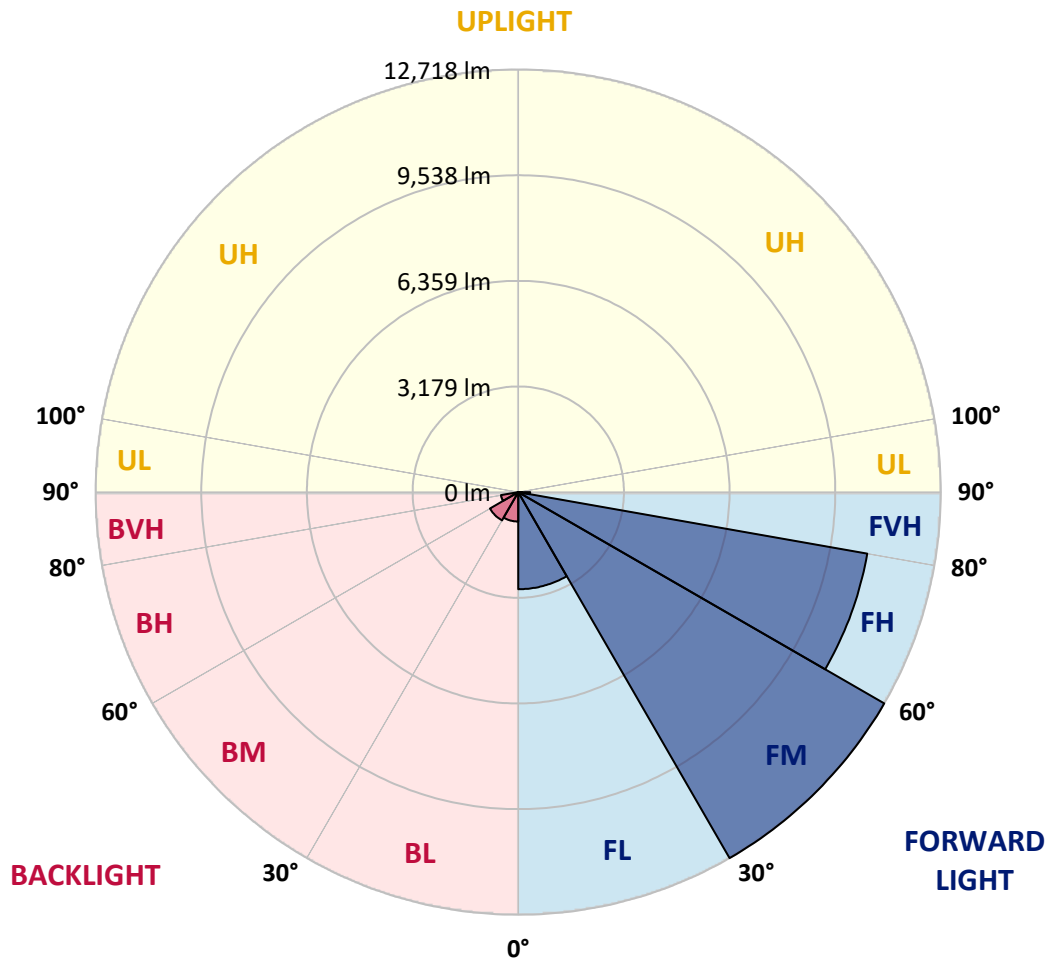


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2921.5	10.1			
FM (30°-60°)	12717.7	43.8			
FH (60°-80°)	10664.8	36.7			G4/12000
FVH (80°-90°)	355.1	1.2			G3/500
BL (0°-30°)	884.7	3.0	B2/1000		
BM (30°-60°)	983.3	3.4	B1/1000		
BH (60°-80°)	528.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.9	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4
2.5°	8958.7	8989.6	9016.6	8966.5	9008.9	8947.2	8789.0	8754.3	8727.3	8491.9	8356.9
5°	8954.9	8920.2	8947.2	8970.3	8912.4	8958.7	8920.2	8924.0	8819.8	8607.6	8229.5
7.5°	8356.9	8341.4	8356.9	8468.8	8596.1	8696.4	8754.3	8812.1	8742.7	8426.3	8059.8
10°	7550.5	7627.7	7670.1	7870.7	8067.5	8252.7	8434.0	8542.1	8522.8	8395.4	7874.6
12.5°	6987.2	6964.1	7118.4	7249.6	7446.3	7820.6	8136.9	8237.3	8353.0	8175.5	7631.5
15°	6466.3	6404.6	6497.2	6724.8	7060.5	7357.6	7801.3	7951.8	8098.4	8144.7	7500.3
17.5°	5968.6	5999.5	6096.0	6300.4	6616.8	7033.5	7450.2	7666.2	8017.3	7955.6	7303.6
20°	5729.4	5795.0	5829.7	5933.9	6153.8	6570.5	7191.7	7365.3	7739.6	7951.8	7110.7
22.5°	5741.0	5741.0	5660.0	5721.7	5922.3	6246.4	6840.6	7033.5	7627.7	7751.1	6937.0
25°	5864.5	5787.3	5791.2	5717.9	5802.7	5980.2	6524.2	6759.6	7400.0	7770.4	6844.4
27.5°	5957.1	5941.6	5918.5	5899.2	5791.2	5818.2	6315.9	6508.8	7311.3	7747.3	6701.7
30°	6292.7	6223.3	6200.1	6157.7	6014.9	5883.8	6150.0	6393.0	7241.8	7801.3	6620.7
32.5°	6574.4	6585.9	6605.2	6481.8	6358.3	6034.2	6196.3	6389.2	7191.7	7924.7	6701.7
35°	6929.3	6979.5	6987.2	6948.6	6817.4	6497.2	6389.2	6555.1	7276.6	8144.7	6709.4
37.5°	7469.5	7415.5	7562.1	7577.5	7484.9	7060.5	6836.7	6902.3	7527.3	8495.8	7002.6
40°	7820.6	7886.2	8160.1	8329.9	8171.7	7785.8	7484.9	7473.3	7890.0	9047.5	7365.3
42.5°	8210.3	8356.9	8657.8	9024.3	9005.0	8646.2	8341.4	8291.3	8534.3	9846.1	7940.2
45°	8742.7	8873.9	9294.4	9846.1	10147.1	9842.3	9383.1	9282.8	9317.6	10934.1	8920.2
47.5°	9626.2	9591.5	10197.2	10741.2	11235.1	10999.7	10803.0	10509.7	10482.7	12215.1	10274.4
50°	10625.5	10617.8	11157.9	11775.2	12346.2	12805.4	12477.4	12157.2	12164.9	13955.1	11867.8
52.5°	11574.6	11725.1	12307.7	12921.1	13901.1	14394.9	14711.3	14584.0	13970.5	15510.0	13573.2
55°	12076.2	12207.3	12786.1	13843.2	15390.4	16659.7	17516.2	17408.2	16223.7	17261.6	15255.3
57.5°	11601.6	11690.3	12473.6	13858.7	16432.1	19264.0	20085.8	19950.8	18554.1	18600.4	17288.6
60°	9614.6	9753.5	10918.7	12543.0	16027.0	21270.3	23623.8	23419.3	20676.1	20294.1	18596.5
62.5°	6659.3	6751.9	7708.7	9730.4	14105.6	21968.6	26965.0	27076.9	22913.9	21613.6	18986.2
65°	4313.5	4305.8	4853.6	6223.3	9996.6	19854.3	28940.4	29634.8	25074.4	21814.3	18866.6
67°	3048.0	3036.4	3294.9	4220.9	6921.6	16358.8	28905.6	30398.8	26247.3	21872.1	17759.3
67.5°	2812.6	2801.1	3048.0	3881.4	6246.4	15212.9	28473.5	30005.2	26660.2	21791.1	17273.2
70°	2183.7	2152.9	2245.5	2673.7	3638.3	9838.4	24368.4	27563.0	25803.6	19769.4	13793.1
72.5°	1578.0	1612.7	1759.3	2195.3	2855.1	5293.5	18573.4	22288.8	21551.9	14900.4	8765.8
75°	1099.6	1130.5	1365.8	1790.2	2619.7	3210.0	12558.4	16165.9	15012.3	8225.7	3734.7
77.5°	574.9	613.5	872.0	1431.4	2380.5	2484.7	7504.2	10251.2	7955.6	2928.4	1030.1
80°	266.2	285.5	436.0	1014.7	1990.8	2183.7	4375.2	5702.4	3183.0	655.9	355.0
82.5°	115.7	127.3	200.6	582.6	1412.1	1909.8	2708.5	2990.1	1153.6	212.2	219.9
85°	23.1	27.0	77.2	308.7	682.9	1157.5	1902.1	1774.8	578.7	104.2	173.6
87.5°	0.0	0.0	19.3	88.7	185.2	343.4	806.4	806.4	177.5	54.0	65.6
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°	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4	8233.4
2.5°	8237.3	8098.4	7793.6	7511.9	7311.3	7083.7	6782.7	6647.7	6597.5	6528.1	6423.9
5°	8021.2	7851.4	7330.6	6805.9	6231.0	5795.0	5332.0	5062.0	4857.5	4730.2	4687.7
7.5°	7716.4	7369.2	6667.0	5825.9	5081.3	4433.1	3730.9	3256.3	2951.5	2828.1	2712.3
10°	7473.3	7021.9	5953.2	4907.6	3916.1	2967.0	2176.0	1759.3	1443.0	1323.4	1307.9
12.5°	7157.0	6616.8	5285.7	3970.1	2723.9	1767.1	1203.8	1045.6	956.8	941.4	929.8
15°	6894.6	6250.3	4653.0	3075.0	1763.2	1103.4	937.5	899.0	875.8	868.1	872.0
17.5°	6717.1	5856.7	4004.8	2237.8	1161.3	902.8	864.2	841.1	829.5	825.7	814.1
20°	6366.0	5524.9	3364.4	1566.4	906.7	833.4	802.5	783.2	771.6	767.8	763.9
22.5°	6165.4	5104.4	2723.9	1091.9	806.4	756.2	733.1	717.6	698.3	686.8	682.9
25°	5964.8	4795.7	2152.9	848.8	733.1	698.3	663.6	644.3	613.5	598.0	594.2
27.5°	5729.4	4490.9	1659.0	736.9	659.8	625.0	590.3	559.4	520.9	505.4	497.7
30°	5594.4	4193.9	1250.1	659.8	605.7	559.4	517.0	478.4	436.0	409.0	401.3
32.5°	5524.9	3923.8	937.5	601.9	547.9	497.7	443.7	397.4	358.8	335.7	331.8
35°	5440.1	3661.4	736.9	547.9	493.8	439.8	385.8	339.5	300.9	281.6	273.9
37.5°	5528.8	3507.1	613.5	505.4	451.4	389.7	331.8	285.5	254.6	235.4	231.5
40°	5771.9	3379.8	532.4	466.8	409.0	343.4	289.4	243.1	216.1	200.6	192.9
42.5°	6146.1	3379.8	482.3	428.3	370.4	300.9	246.9	212.2	185.2	169.8	165.9
45°	6825.2	3484.0	439.8	389.7	324.1	258.5	212.2	177.5	150.5	135.0	131.2
47.5°	7778.1	3723.2	405.1	355.0	289.4	227.6	185.2	150.5	123.5	108.0	104.2
50°	9059.1	4267.2	370.4	312.5	258.5	196.8	154.3	119.6	96.5	81.0	77.2
52.5°	10656.4	5038.8	335.7	289.4	219.9	165.9	123.5	96.5	73.3	61.7	57.9
55°	12346.2	5984.1	293.2	258.5	189.1	138.9	100.3	73.3	54.0	46.3	42.4
57.5°	14047.7	6713.3	258.5	223.8	154.3	111.9	81.0	57.9	38.6	30.9	27.0
60°	14950.5	6782.7	223.8	185.2	123.5	88.7	61.7	42.4	27.0	19.3	15.4
62.5°	15089.4	6165.4	192.9	150.5	100.3	69.4	42.4	30.9	15.4	7.7	7.7
65°	14375.7	5139.1	165.9	119.6	77.2	50.2	30.9	19.3	7.7	3.9	0.0
67°	13218.2	4305.8	142.8	100.3	61.7	38.6	23.1	11.6	3.9	0.0	0.0
67.5°	12770.6	4074.3	135.0	92.6	57.9	34.7	19.3	11.6	3.9	0.0	0.0
70°	9911.7	2909.1	100.3	65.6	42.4	27.0	15.4	7.7	0.0	0.0	0.0
72.5°	6072.8	1701.5	77.2	46.3	30.9	19.3	11.6	3.9	0.0	0.0	0.0
75°	2546.4	586.4	65.6	34.7	23.1	11.6	7.7	3.9	0.0	0.0	0.0
77.5°	663.6	219.9	46.3	23.1	15.4	11.6	7.7	3.9	0.0	0.0	0.0
80°	270.1	100.3	30.9	15.4	15.4	11.6	7.7	3.9	0.0	0.0	0.0
82.5°	177.5	46.3	19.3	15.4	11.6	7.7	3.9	0.0	0.0	0.0	0.0
85°	135.0	27.0	11.6	11.6	7.7	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	57.9	15.4	11.6	7.7	7.7	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)