

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: P484540

Luminaire Tested: **IFLD-L-SA7C-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484540
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

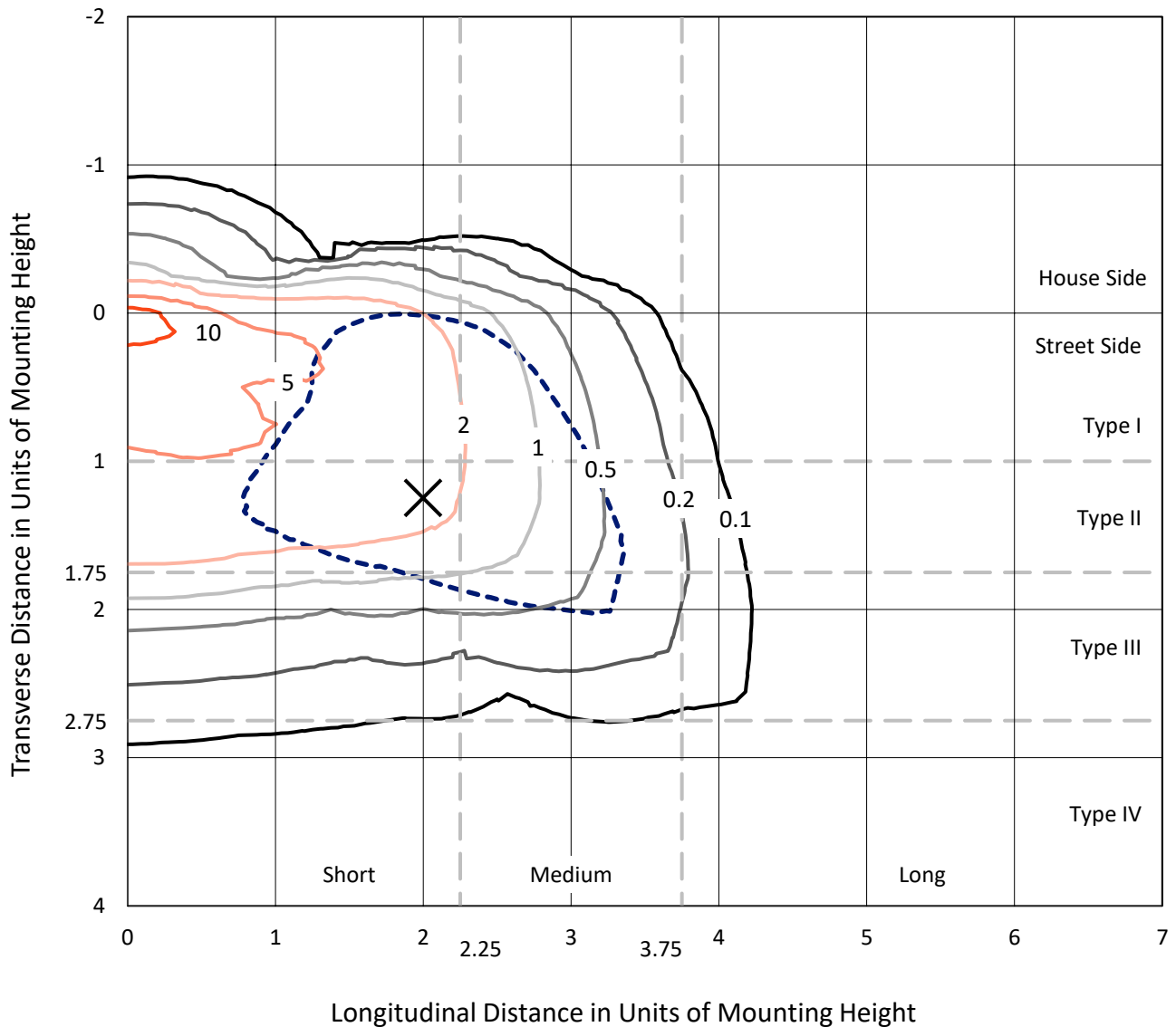
Lumens per Lamp: N/A
Luminaire Lumens: 27252.9 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
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

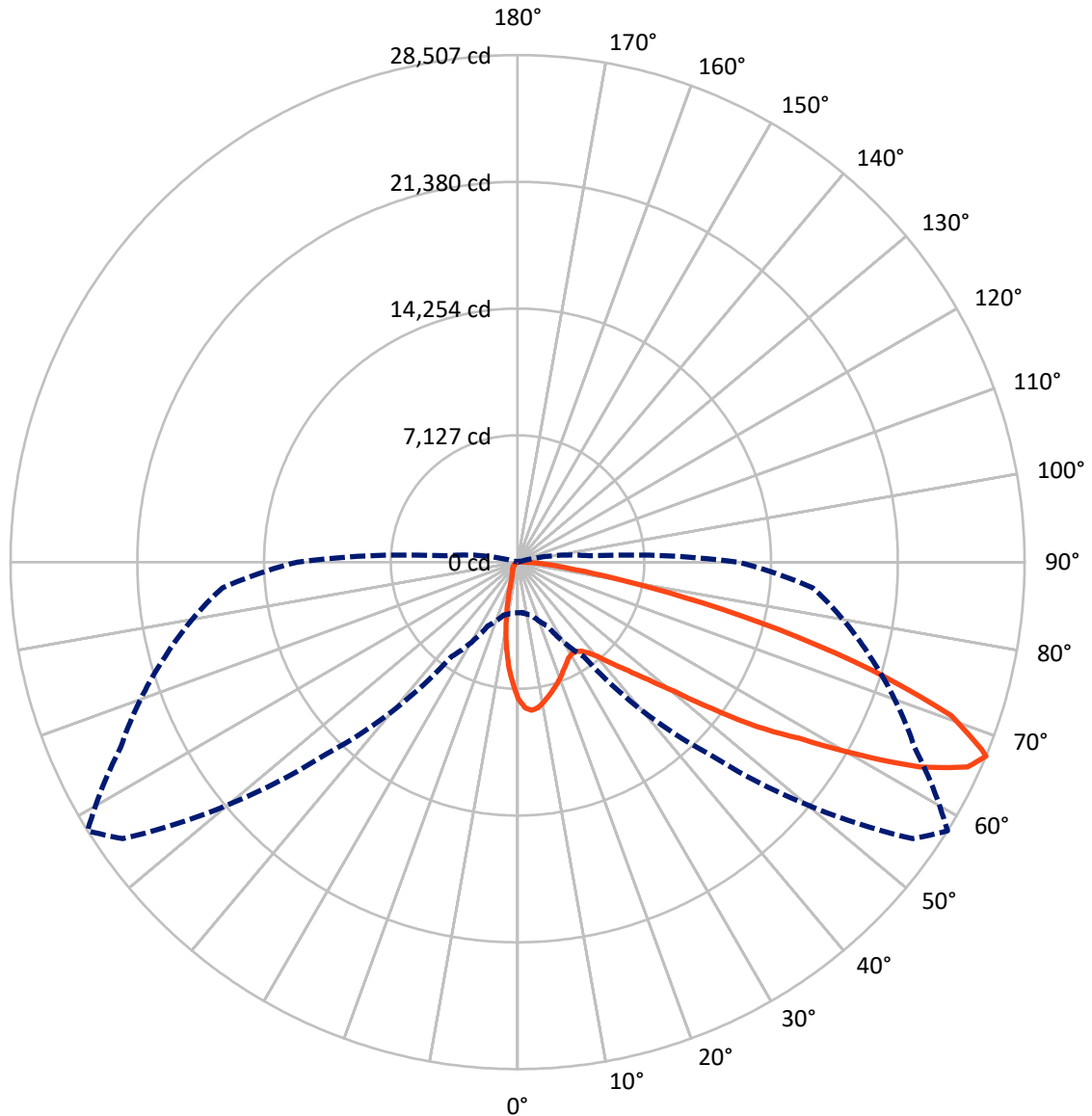
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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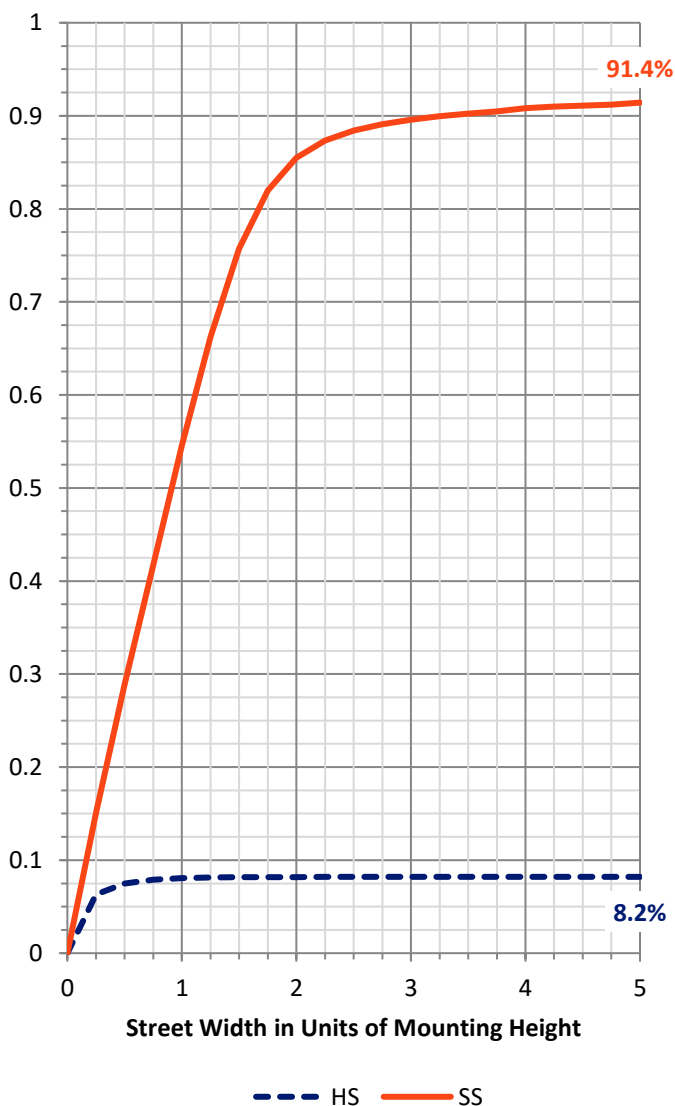
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2252.6	0.0	2252.6
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	25000.2	0.0	25000.2
	% Fixture	91.7	0.0	91.7
Total	Lumens	27252.9	0.0	27252.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.6	2.2
10°-20°	1270.7	4.7
20°-30°	1686.0	6.2
30°-40°	2336.2	8.6
40°-50°	3812.0	14.0
50°-60°	6700.3	24.6
60°-70°	7421.1	27.2
70°-80°	3075.3	11.3
80°-90°	338.5	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°	27252.9	100.0
0°-180°	27252.9	100.0

Coefficient of Utilization



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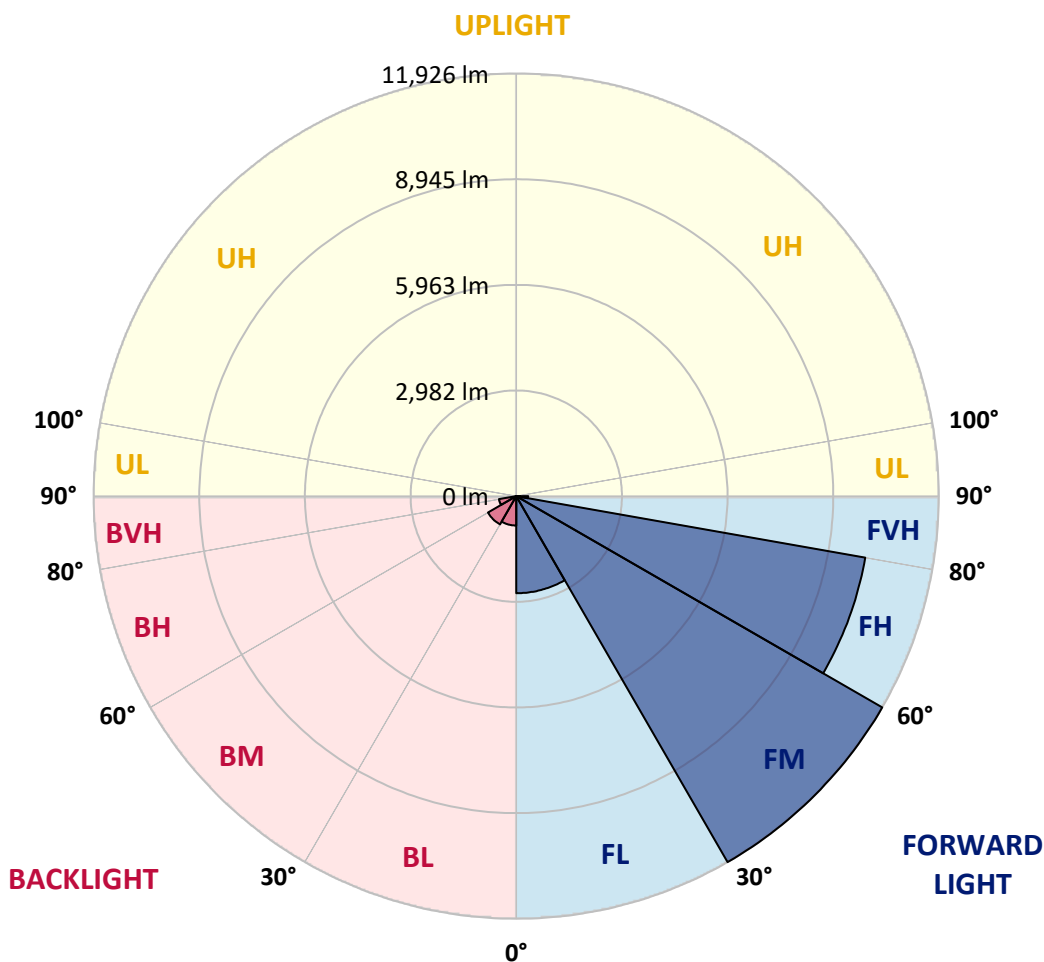
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2739.7	10.1			
FM (30°-60°)	11926.4	43.8			
FH (60°-80°)	10001.2	36.7			G4/12000
FVH (80°-90°)	333.0	1.2			G3/500
BL (0°-30°)	829.7	3.0	B2/1000		
BM (30°-60°)	922.1	3.4	B1/1000		
BH (60°-80°)	495.3	1.8	B1/500		G1/500
BVH (80°-90°)	5.6	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°	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1
2.5°	8401.3	8430.3	8455.6	8408.6	8448.4	8390.5	8242.1	8209.6	8184.2	7963.5	7836.9
5°	8397.7	8365.1	8390.5	8412.2	8357.9	8401.3	8365.1	8368.8	8271.1	8072.1	7717.5
7.5°	7836.9	7822.4	7836.9	7941.8	8061.2	8155.3	8209.6	8263.8	8198.7	7902.0	7558.3
10°	7080.7	7153.1	7192.9	7381.0	7565.5	7739.2	7909.3	8010.6	7992.5	7873.1	7384.6
12.5°	6552.4	6530.7	6675.5	6798.5	6983.0	7334.0	7630.7	7724.7	7833.3	7666.8	7156.7
15°	6064.0	6006.1	6092.9	6306.4	6621.2	6899.8	7315.9	7457.0	7594.5	7637.9	7033.7
17.5°	5597.3	5626.2	5716.7	5908.4	6205.1	6595.9	6986.6	7189.2	7518.5	7460.6	6849.1
20°	5372.9	5434.4	5467.0	5564.7	5770.9	6161.7	6744.2	6907.0	7258.0	7457.0	6668.2
22.5°	5383.8	5383.8	5307.8	5365.7	5553.8	5857.8	6415.0	6595.9	7153.1	7268.8	6505.4
25°	5499.6	5427.2	5430.8	5362.1	5441.7	5608.1	6118.3	6339.0	6939.6	7286.9	6418.6
27.5°	5586.4	5571.9	5550.2	5532.1	5430.8	5456.2	5922.9	6103.8	6856.4	7265.2	6284.7
30°	5901.2	5836.1	5814.3	5774.5	5640.7	5517.7	5767.3	5995.3	6791.2	7315.9	6208.7
32.5°	6165.3	6176.2	6194.3	6078.5	5962.7	5658.8	5810.7	5991.6	6744.2	7431.7	6284.7
35°	6498.2	6545.2	6552.4	6516.3	6393.3	6092.9	5991.6	6147.2	6823.8	7637.9	6291.9
37.5°	7004.7	6954.1	7091.6	7106.0	7019.2	6621.2	6411.3	6472.9	7059.0	7967.1	6566.9
40°	7334.0	7395.5	7652.4	7811.6	7663.2	7301.4	7019.2	7008.3	7399.1	8484.5	6907.0
42.5°	7699.4	7836.9	8119.1	8462.8	8444.7	8108.2	7822.4	7775.4	8003.3	9233.5	7446.1
45°	8198.7	8321.7	8716.1	9233.5	9515.7	9229.9	8799.3	8705.2	8737.8	10253.8	8365.1
47.5°	9027.3	8994.7	9562.7	10072.9	10536.0	10315.3	10130.8	9855.8	9830.5	11455.0	9635.1
50°	9964.4	9957.1	10463.7	11042.6	11578.0	12008.6	11701.1	11400.8	11408.0	13086.8	11129.4
52.5°	10854.4	10995.5	11541.9	12117.1	13036.2	13499.3	13796.0	13676.6	13101.3	14544.9	12728.6
55°	11324.8	11447.8	11990.5	12981.9	14432.8	15623.1	16426.4	16325.0	15214.3	16187.6	14306.1
57.5°	10879.7	10963.0	11697.4	12996.4	15409.7	18065.4	18836.0	18709.4	17399.6	17443.0	16212.9
60°	9016.4	9146.7	10239.3	11762.6	15029.7	19946.8	22153.9	21962.1	19389.6	19031.4	17439.4
62.5°	6244.9	6331.7	7229.0	9124.9	13227.9	20601.7	25287.2	25392.1	21488.1	20268.8	17804.9
65°	4045.1	4037.8	4551.6	5836.1	9374.6	18618.9	27139.7	27790.9	23514.3	20457.0	17692.7
67°	2858.3	2847.5	3089.9	3958.2	6490.9	15340.9	27107.1	28507.3	24614.2	20511.2	16654.3
67.5°	2637.6	2626.8	2858.3	3639.8	5857.8	14266.3	26701.9	28138.3	25001.3	20435.2	16198.4
70°	2047.9	2018.9	2105.8	2507.4	3411.9	9226.3	22852.2	25848.0	24198.1	18539.3	12934.8
72.5°	1479.8	1512.4	1649.9	2058.7	2677.4	4964.1	17417.7	20902.0	20210.9	13973.3	8220.4
75°	1031.2	1060.1	1280.8	1678.8	2456.7	3010.3	11777.0	15160.0	14078.2	7713.9	3502.4
77.5°	539.1	575.3	817.7	1342.3	2232.4	2330.1	7037.3	9613.4	7460.6	2746.2	966.0
80°	249.7	267.7	408.8	951.6	1867.0	2047.9	4103.0	5347.6	2985.0	615.1	332.9
82.5°	108.5	119.4	188.1	546.3	1324.2	1791.0	2539.9	2804.1	1081.8	199.0	206.2
85°	21.7	25.3	72.4	289.5	640.4	1085.4	1783.7	1664.3	542.7	97.7	162.8
87.5°	0.0	0.0	18.1	83.2	173.7	322.0	756.2	756.2	166.4	50.7	61.5
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°	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1	7721.1
2.5°	7724.7	7594.5	7308.6	7044.5	6856.4	6642.9	6360.7	6234.1	6187.0	6121.9	6024.2
5°	7522.1	7362.9	6874.5	6382.4	5843.3	5434.4	5000.3	4747.0	4555.2	4435.8	4396.0
7.5°	7236.3	6910.6	6252.1	5463.4	4765.1	4157.2	3498.7	3053.7	2767.9	2652.1	2543.6
10°	7008.3	6585.0	5582.8	4602.3	3672.4	2782.3	2040.6	1649.9	1353.2	1241.0	1226.5
12.5°	6711.6	6205.1	4956.9	3723.1	2554.4	1657.1	1128.9	980.5	897.3	882.8	872.0
15°	6465.6	5861.4	4363.5	2883.7	1653.5	1034.8	879.2	843.0	821.3	814.1	817.7
17.5°	6299.2	5492.3	3755.6	2098.5	1089.1	846.6	810.5	788.8	777.9	774.3	763.4
20°	5969.9	5181.2	3155.0	1469.0	850.3	781.5	752.6	734.5	723.6	720.0	716.4
22.5°	5781.8	4786.8	2554.4	1023.9	756.2	709.2	687.4	673.0	654.9	644.0	640.4
25°	5593.6	4497.3	2018.9	796.0	687.4	654.9	622.3	604.2	575.3	560.8	557.2
27.5°	5372.9	4211.5	1555.8	691.1	618.7	586.1	553.6	524.6	488.4	474.0	466.7
30°	5246.3	3932.9	1172.3	618.7	568.0	524.6	484.8	448.6	408.8	383.5	376.3
32.5°	5181.2	3679.6	879.2	564.4	513.8	466.7	416.1	372.7	336.5	314.8	311.2
35°	5101.6	3433.6	691.1	513.8	463.1	412.5	361.8	318.4	282.2	264.1	256.9
37.5°	5184.8	3288.9	575.3	474.0	423.3	365.4	311.2	267.7	238.8	220.7	217.1
40°	5412.7	3169.5	499.3	437.8	383.5	322.0	271.4	227.9	202.6	188.1	180.9
42.5°	5763.7	3169.5	452.3	401.6	347.3	282.2	231.6	199.0	173.7	159.2	155.6
45°	6400.5	3267.2	412.5	365.4	303.9	242.4	199.0	166.4	141.1	126.6	123.0
47.5°	7294.2	3491.5	379.9	332.9	271.4	213.5	173.7	141.1	115.8	101.3	97.7
50°	8495.4	4001.7	347.3	293.1	242.4	184.5	144.7	112.2	90.5	76.0	72.4
52.5°	9993.3	4725.3	314.8	271.4	206.2	155.6	115.8	90.5	68.7	57.9	54.3
55°	11578.0	5611.7	275.0	242.4	177.3	130.3	94.1	68.7	50.7	43.4	39.8
57.5°	13173.6	6295.6	242.4	209.9	144.7	104.9	76.0	54.3	36.2	28.9	25.3
60°	14020.3	6360.7	209.9	173.7	115.8	83.2	57.9	39.8	25.3	18.1	14.5
62.5°	14150.5	5781.8	180.9	141.1	94.1	65.1	39.8	28.9	14.5	7.2	7.2
65°	13481.2	4819.4	155.6	112.2	72.4	47.0	28.9	18.1	7.2	3.6	0.0
67°	12395.7	4037.8	133.9	94.1	57.9	36.2	21.7	10.9	3.6	0.0	0.0
67.5°	11976.0	3820.8	126.6	86.8	54.3	32.6	18.1	10.9	3.6	0.0	0.0
70°	9295.0	2728.1	94.1	61.5	39.8	25.3	14.5	7.2	0.0	0.0	0.0
72.5°	5695.0	1595.6	72.4	43.4	28.9	18.1	10.9	3.6	0.0	0.0	0.0
75°	2388.0	550.0	61.5	32.6	21.7	10.9	7.2	3.6	0.0	0.0	0.0
77.5°	622.3	206.2	43.4	21.7	14.5	10.9	7.2	3.6	0.0	0.0	0.0
80°	253.3	94.1	28.9	14.5	14.5	10.9	7.2	3.6	0.0	0.0	0.0
82.5°	166.4	43.4	18.1	14.5	10.9	7.2	3.6	0.0	0.0	0.0	0.0
85°	126.6	25.3	10.9	10.9	7.2	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	54.3	14.5	10.9	7.2	7.2	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)