

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: P483922

Luminaire Tested: **IFLD-L-SA8D-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483922
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

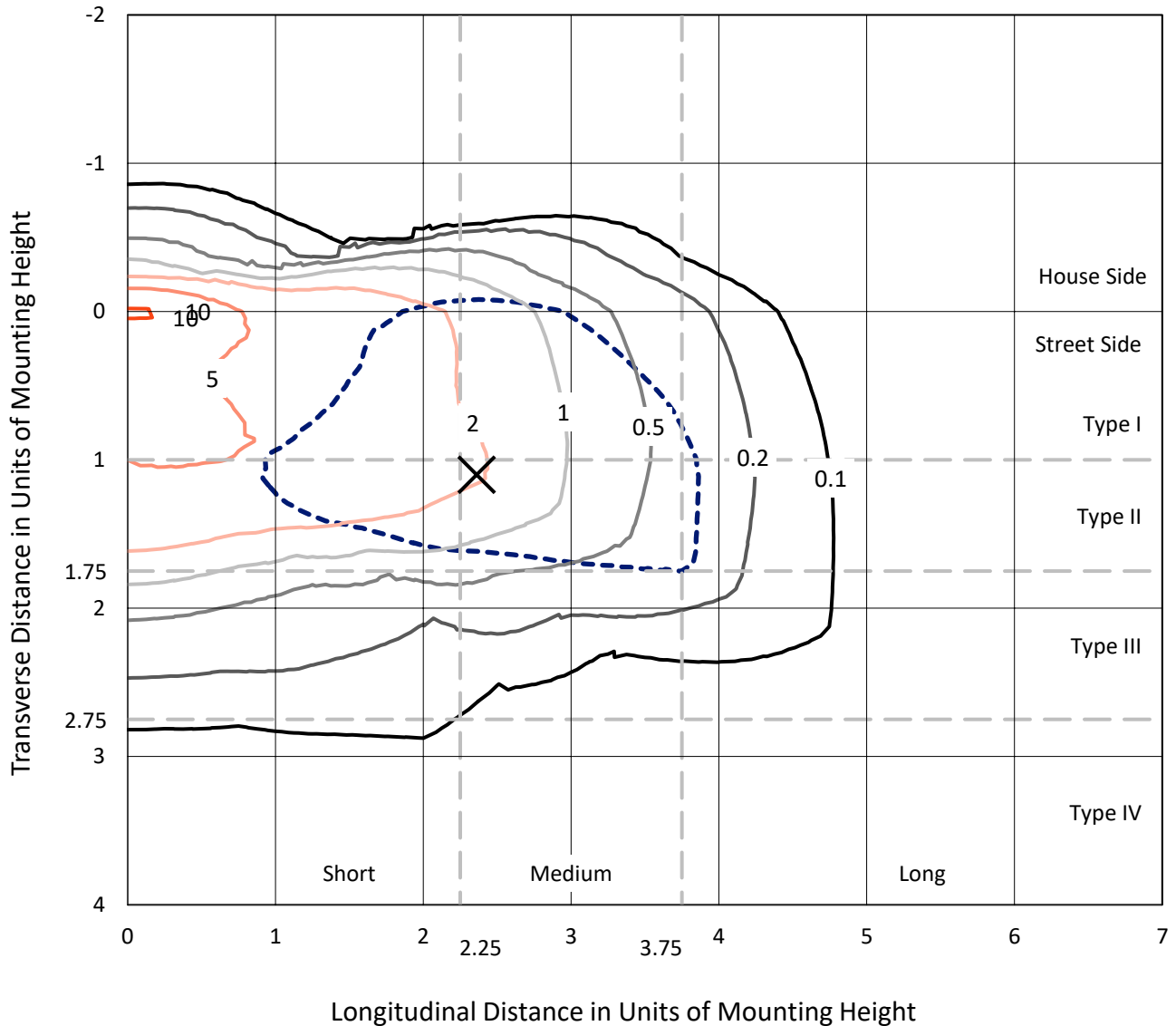
Lumens per Lamp: N/A
Luminaire Lumens: 38372.2 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

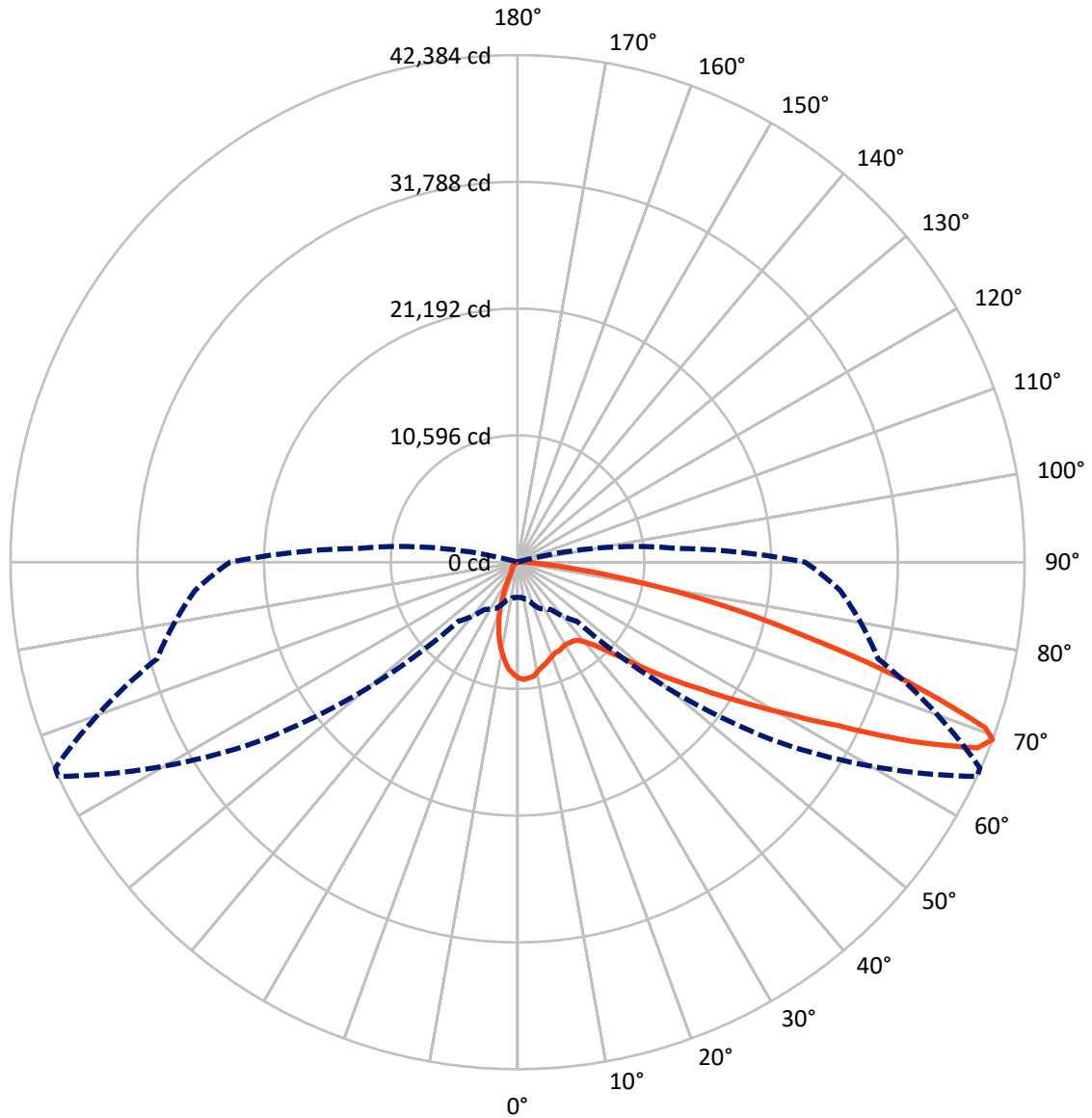
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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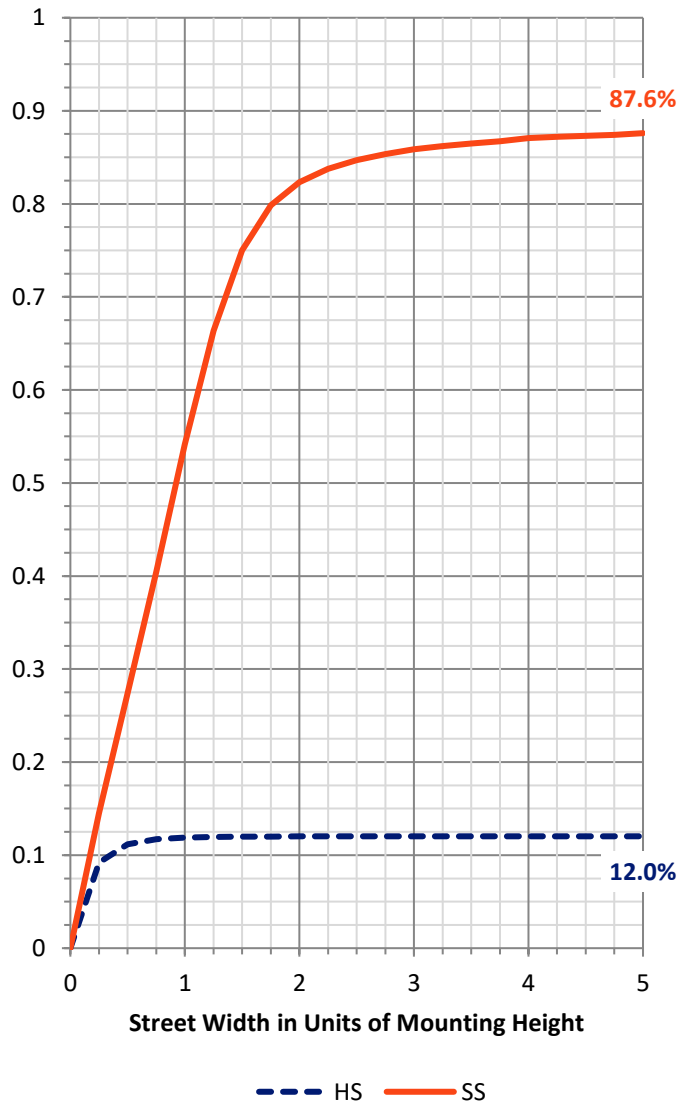
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4654.8	0.0	4654.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	33717.4	0.0	33717.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	38372.2	0.0	38372.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.7	2.1
10°-20°	1732.2	4.5
20°-30°	2411.6	6.3
30°-40°	3417.5	8.9
40°-50°	5385.9	14.0
50°-60°	8739.4	22.8
60°-70°	9760.1	25.4
70°-80°	5496.1	14.3
80°-90°	637.8	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°	38372.2	100.0
0°-180°	38372.2	100.0

Coefficient of Utilization



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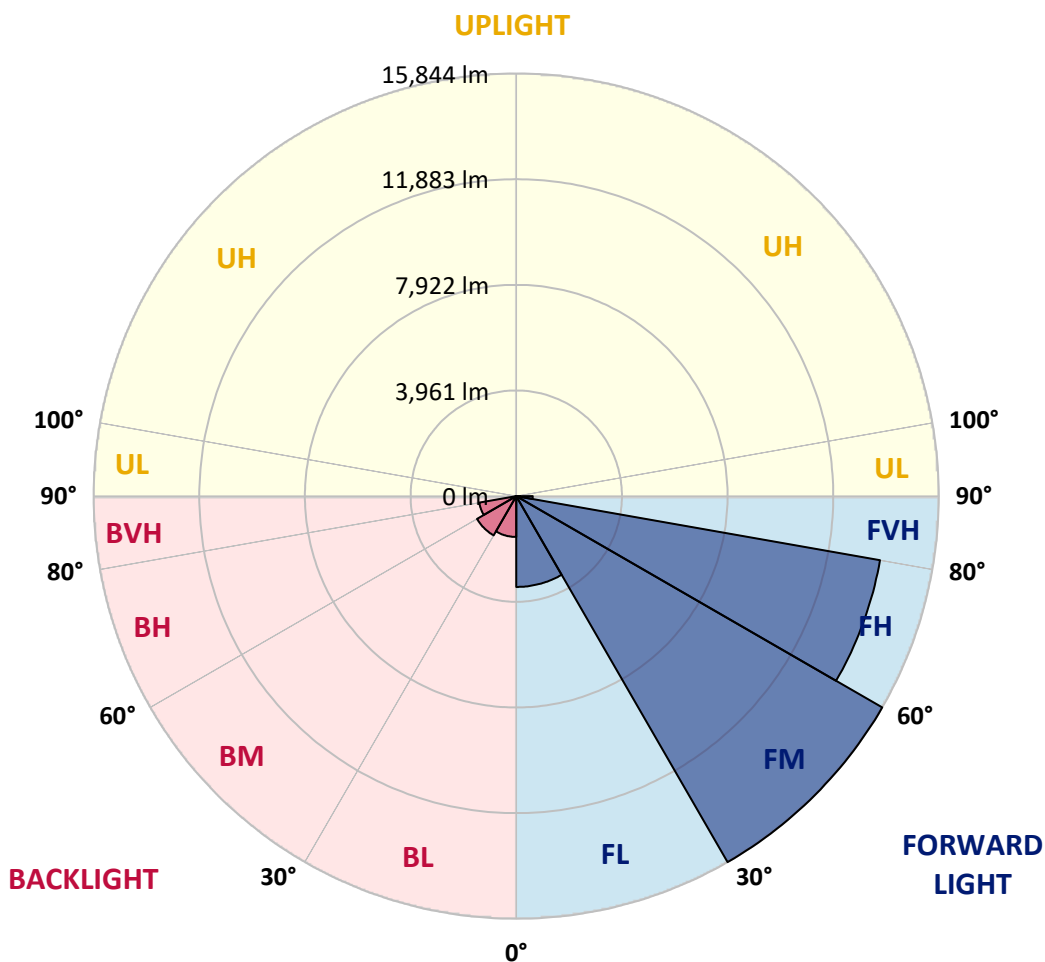
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3405.2	8.9			
FM (30°-60°)	15844.2	41.3			
FH (60°-80°)	13847.8	36.1			G5
FVH (80°-90°)	620.2	1.6			G4/750
BL (0°-30°)	1530.4	4.0	B3/2500		
BM (30°-60°)	1698.5	4.4	B2/2500		
BH (60°-80°)	1408.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	17.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5
2.5°	9317.3	9389.8	9410.5	9483.0	9519.2	9674.5	9762.5	9814.3	9788.4	9845.3	9850.5
5°	8654.8	8613.4	8722.1	8799.7	8965.4	9234.5	9508.9	9721.1	9819.4	9912.6	9897.1
7.5°	7945.6	7924.9	8033.6	8209.6	8359.7	8685.8	9125.8	9648.6	9627.9	9855.7	9923.0
10°	7459.1	7479.8	7516.0	7692.0	7914.6	8245.9	8794.5	9281.1	9389.8	9871.2	10005.8
12.5°	7013.9	7050.1	7117.4	7298.6	7557.4	7899.0	8432.2	9001.6	9167.2	9783.2	10052.4
15°	6869.0	6786.1	6920.7	7055.3	7324.5	7629.9	8080.2	8789.4	8861.8	9679.7	10130.0
17.5°	6749.9	6698.1	6760.3	6869.0	7153.7	7402.1	7826.6	8561.6	8696.2	9638.3	10119.7
20°	6786.1	6739.5	6765.4	6848.2	6977.7	7210.6	7604.0	8344.2	8489.1	9446.8	10104.1
22.5°	6889.7	6925.9	6879.3	6900.0	6941.4	7060.5	7484.9	8188.9	8313.1	9410.5	10192.1
25°	7355.5	7293.4	7231.3	7205.4	6962.1	7013.9	7448.7	8178.6	8266.6	9281.1	10119.7
27.5°	7842.1	7790.3	7764.5	7614.3	7283.1	7127.8	7453.9	8033.6	8152.7	9229.3	10031.7
30°	8432.2	8499.5	8396.0	8214.8	7754.1	7371.1	7510.8	7961.2	8126.8	9032.6	9974.7
32.5°	9053.4	9089.6	9141.4	9006.8	8411.5	7738.6	7681.6	8028.4	8038.8	9032.6	9845.3
35°	9757.3	9705.6	9840.2	9850.5	9327.7	8390.8	8007.7	8075.0	8183.7	8991.2	9798.7
37.5°	10363.0	10451.0	10606.2	10854.7	10316.4	9312.2	8515.0	8292.4	8339.0	9182.8	9835.0
40°	11025.5	11113.5	11465.5	11714.0	11408.6	10347.4	9286.3	8799.7	8835.9	9467.5	10021.3
42.5°	11755.4	11926.2	12345.5	12780.3	12697.5	11662.2	10280.1	9545.1	9529.6	10176.6	10404.4
45°	12744.1	12971.8	13427.3	13929.4	14001.9	13168.5	11605.3	10658.0	10709.8	11103.2	11196.3
47.5°	14121.0	14110.6	14555.8	15114.8	15534.1	14731.8	13189.2	12154.0	12148.8	12568.1	12371.4
50°	15451.3	15456.4	15575.5	16222.5	17309.6	16900.6	15151.0	14141.7	14084.7	14291.8	13976.0
52.5°	16067.2	15994.8	15906.8	16688.4	18676.1	19633.7	17635.7	16393.4	16346.8	16222.5	16139.7
55°	15420.2	15446.1	15440.9	16253.6	19395.6	22516.9	20824.3	18872.8	18795.2	18406.9	18520.8
57.5°	13344.5	13261.7	13442.9	14711.1	18572.6	24483.9	25384.6	21999.3	21797.4	20508.5	20249.7
60°	9933.3	9959.2	10109.3	11605.3	16527.9	24898.0	29748.2	25669.3	24799.7	21988.9	21631.8
62.5°	6936.2	6884.5	6941.4	7780.0	11817.5	23241.6	32698.7	30131.3	29292.7	23671.2	23464.2
65°	4964.1	4896.8	5124.5	5637.0	7096.7	17770.2	33118.0	36073.7	35323.1	26357.7	25860.8
67.5°	3571.6	3561.3	3825.3	4757.0	5041.7	10233.6	30012.2	41457.0	41001.5	29546.3	27320.5
69°	2955.7	2960.8	3214.5	4260.1	4814.0	6988.0	25824.6	42383.6	42300.7	31192.4	27046.2
70°	2577.8	2598.5	2893.6	3965.0	4720.8	5745.7	22263.3	41472.5	41389.7	31513.3	26140.3
72.5°	1589.1	1604.7	1992.9	3178.3	4487.9	4689.7	13313.5	33930.7	34215.4	30043.3	22522.1
75°	760.9	766.1	1045.6	2298.3	4327.4	4446.4	7132.9	25037.8	25638.2	24256.2	17599.4
77.5°	403.8	403.8	502.1	1221.6	3504.4	4182.5	4234.2	17661.5	18158.5	15337.4	10005.8
80°	201.9	207.1	305.4	636.7	2174.0	4099.6	3307.7	10533.8	10802.9	6258.2	3116.1
82.5°	77.6	82.8	144.9	383.0	1128.4	3462.9	2903.9	5181.5	5114.2	1464.9	760.9
85°	10.4	10.4	51.8	227.8	481.4	1527.0	2396.6	2163.7	2091.2	320.9	367.5
87.5°	0.0	0.0	10.4	67.3	144.9	445.2	926.6	595.3	662.6	88.0	181.2
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°	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5	9674.5
2.5°	9824.6	9715.9	9550.3	9389.8	9219.0	9011.9	8784.2	8701.4	8556.4	8546.1	8628.9
5°	9814.3	9638.3	9348.4	9006.8	8520.2	8152.7	7754.1	7464.2	7241.6	7096.7	7132.9
7.5°	9866.0	9653.8	9151.7	8416.7	7790.3	7060.5	6444.5	6020.0	5631.8	5440.3	5419.6
10°	9783.2	9498.5	8763.5	7733.4	6812.0	5792.3	4891.6	4322.2	3742.5	3530.2	3540.6
12.5°	9829.8	9431.2	8344.2	7029.4	5761.2	4436.1	3359.4	2583.0	2039.5	1863.5	1842.8
15°	9860.9	9286.3	7940.4	6185.7	4596.6	3023.0	1946.3	1464.9	1294.1	1263.0	1257.8
17.5°	9741.8	9110.3	7371.1	5352.3	3406.0	1837.6	1294.1	1195.7	1164.7	1144.0	1133.6
20°	9736.6	9006.8	6879.3	4498.2	2272.4	1252.7	1118.1	1081.8	1035.3	1019.7	1019.7
22.5°	9648.6	8789.4	6289.2	3561.3	1449.4	1076.7	1004.2	947.3	895.5	874.8	869.6
25°	9622.7	8535.7	5735.3	2676.1	1102.6	962.8	890.3	807.5	745.4	714.3	698.8
27.5°	9550.3	8318.3	5176.3	1884.2	962.8	859.3	766.1	678.1	605.6	559.0	553.9
30°	9291.5	8090.6	4555.1	1304.4	874.8	760.9	657.4	553.9	481.4	450.3	440.0
32.5°	9182.8	7878.3	3877.1	1004.2	797.2	672.9	553.9	460.7	403.8	372.7	367.5
35°	9053.4	7567.8	3219.7	874.8	724.7	584.9	465.9	388.2	341.6	315.8	315.8
37.5°	9068.9	7319.3	2603.7	792.0	647.0	502.1	398.6	331.3	289.9	264.0	264.0
40°	9022.3	7122.6	2023.9	719.5	574.6	429.6	336.5	279.5	243.3	217.4	212.2
42.5°	9234.5	7070.8	1527.0	657.4	502.1	367.5	289.9	238.1	201.9	170.8	170.8
45°	9591.7	7153.7	1190.5	600.5	429.6	315.8	248.5	196.7	160.5	139.8	134.6
47.5°	10544.1	7479.8	931.7	553.9	367.5	274.3	207.1	160.5	129.4	108.7	103.5
50°	11926.2	8209.6	792.0	486.6	310.6	232.9	170.8	124.2	103.5	82.8	77.6
52.5°	13893.2	9436.4	719.5	429.6	258.8	191.5	134.6	98.3	77.6	62.1	56.9
55°	16036.2	10968.6	652.2	362.3	217.4	155.3	108.7	77.6	56.9	41.4	36.2
57.5°	17708.1	12293.7	595.3	300.2	176.0	124.2	82.8	56.9	41.4	25.9	20.7
60°	19535.4	13225.5	522.8	238.1	144.9	93.2	62.1	41.4	31.1	15.5	15.5
62.5°	21419.5	14317.7	429.6	186.3	113.9	72.5	46.6	31.1	20.7	5.2	5.2
65°	24038.8	15171.7	331.3	144.9	88.0	51.8	36.2	25.9	10.4	0.0	0.0
67.5°	24779.0	14752.5	243.3	113.9	62.1	36.2	25.9	15.5	5.2	0.0	0.0
69°	24038.8	13287.6	212.2	98.3	51.8	31.1	20.7	10.4	5.2	0.0	0.0
70°	22687.7	12148.8	186.3	82.8	46.6	31.1	15.5	10.4	5.2	0.0	0.0
72.5°	18976.3	9317.3	144.9	62.1	36.2	25.9	15.5	10.4	0.0	0.0	0.0
75°	13919.1	5756.0	108.7	46.6	31.1	20.7	15.5	10.4	0.0	0.0	0.0
77.5°	7459.1	2101.6	77.6	31.1	20.7	15.5	15.5	10.4	0.0	0.0	0.0
80°	2044.6	621.2	56.9	20.7	15.5	10.4	10.4	5.2	0.0	0.0	0.0
82.5°	559.0	160.5	36.2	20.7	15.5	10.4	5.2	0.0	0.0	0.0	0.0
85°	300.2	62.1	20.7	15.5	10.4	5.2	0.0	0.0	0.0	0.0	0.0
87.5°	155.3	20.7	15.5	10.4	10.4	5.2	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)