

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: P480020

Luminaire Tested: **IFLD-L-SA8B-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480020
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

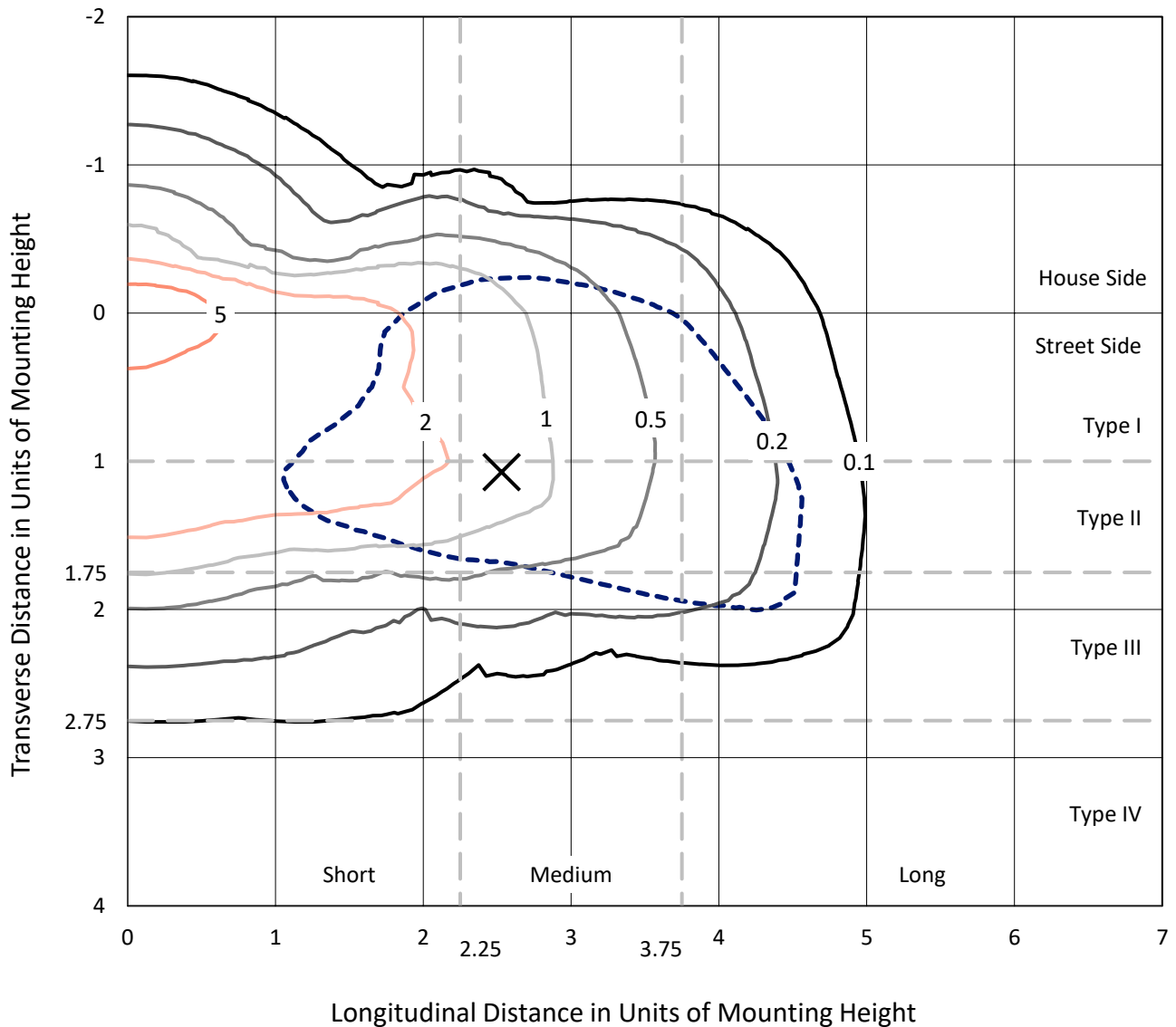
Lumens per Lamp: N/A
Luminaire Lumens: 33936.2 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

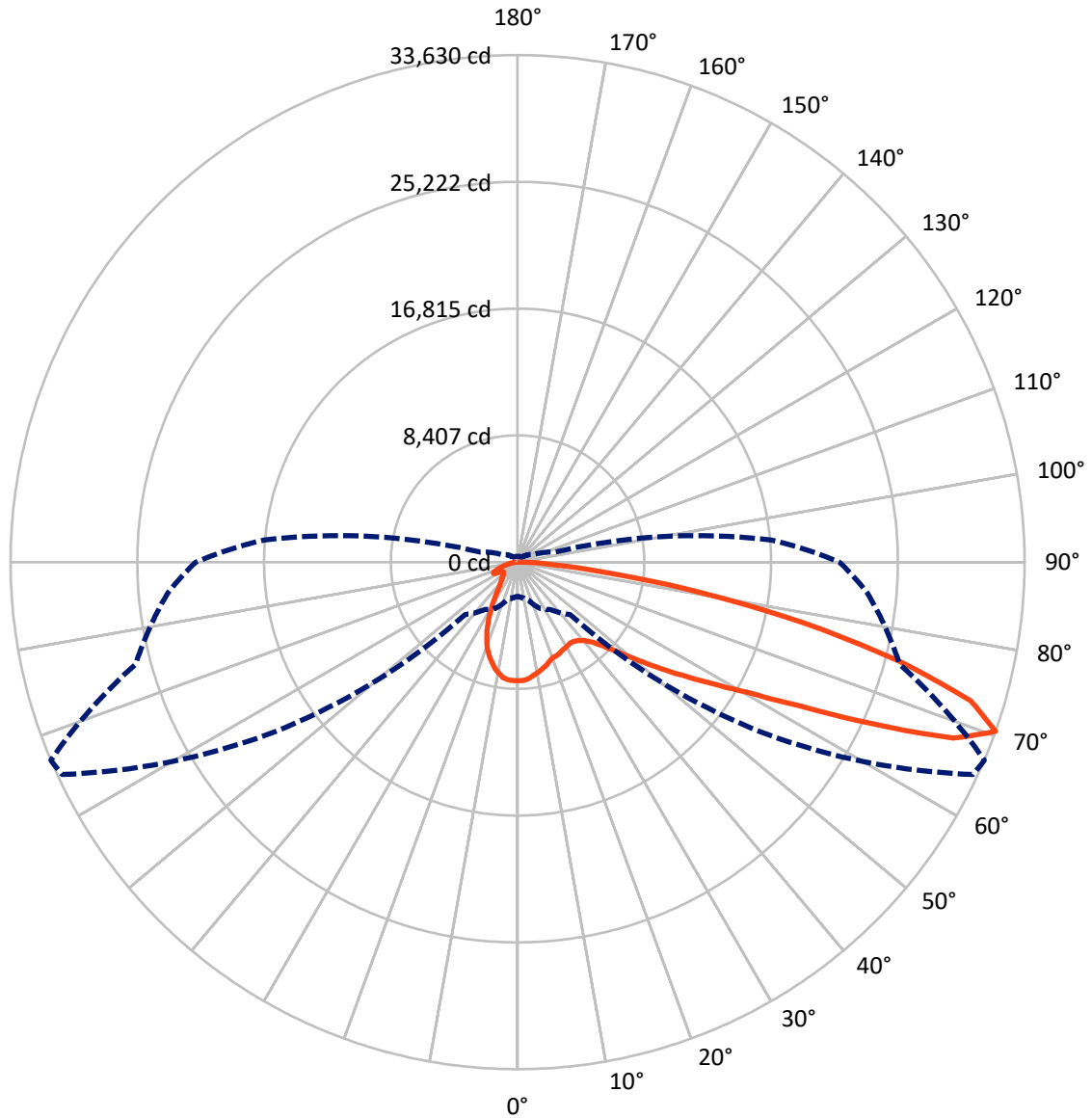
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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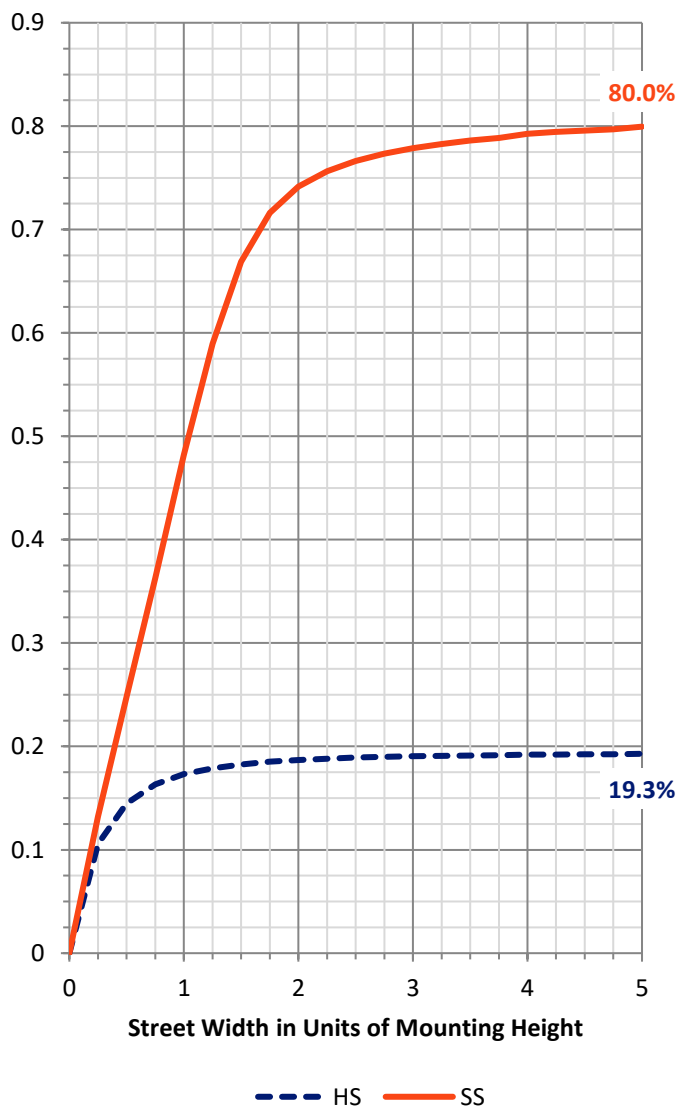
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6609.4	0.0	6609.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	27326.8	0.0	27326.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	33936.2	0.0	33936.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.5	2.0
10°-20°	1641.7	4.8
20°-30°	2216.9	6.5
30°-40°	2966.5	8.7
40°-50°	4362.1	12.9
50°-60°	6799.5	20.0
60°-70°	8375.8	24.7
70°-80°	5918.3	17.4
80°-90°	970.0	2.9
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°	33936.2	100.0
0°-180°	33936.2	100.0

Coefficient of Utilization



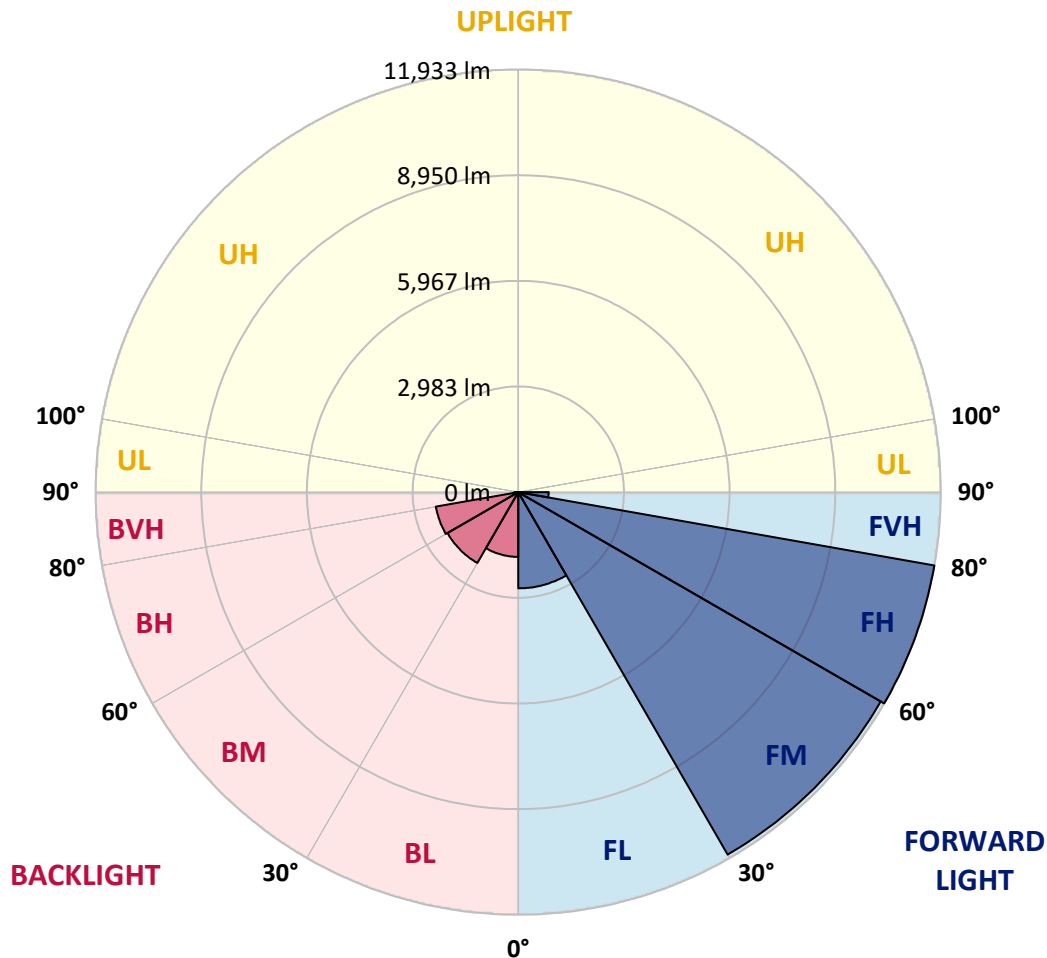
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2716.3	8.0			
FM (30°-60°)	11819.2	34.8			
FH (60°-80°)	11933.1	35.2			G4/12000
FVH (80°-90°)	858.1	2.5			G5
BL (0°-30°)	1827.7	5.4	B3/2500		
BM (30°-60°)	2308.8	6.8	B2/2500		
BH (60°-80°)	2361.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	111.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1
2.5°	7315.1	7397.7	7427.8	7472.9	7589.4	7675.8	7728.4	7788.5	7859.9	7920.0	7957.6
5°	6804.1	6849.2	6920.6	6969.4	7116.0	7348.9	7506.7	7762.2	7754.7	7848.6	7991.4
7.5°	6308.2	6353.3	6387.1	6484.8	6695.2	6905.6	7194.9	7608.1	7578.1	7796.0	8017.7
10°	6000.1	5966.3	5977.6	6142.9	6308.2	6544.9	6909.3	7330.1	7439.1	7777.2	8092.8
12.5°	5710.8	5673.2	5763.4	5868.6	6071.5	6285.6	6721.5	7100.9	7266.2	7709.6	8126.6
15°	5530.5	5504.2	5616.9	5662.0	5902.4	6157.9	6466.0	6928.1	7108.5	7626.9	8074.0
17.5°	5429.0	5451.6	5492.9	5590.6	5744.6	5962.5	6300.7	6811.6	6890.5	7525.5	8062.8
20°	5447.8	5474.1	5477.9	5519.2	5624.4	5793.5	6139.1	6687.7	6740.3	7506.7	8092.8
22.5°	5598.1	5560.5	5575.6	5549.3	5579.3	5710.8	6015.1	6522.3	6725.2	7348.9	8028.9
25°	5823.5	5770.9	5763.4	5673.2	5616.9	5654.4	5992.6	6481.0	6612.5	7300.1	8025.2
27.5°	6221.8	6142.9	6142.9	6007.6	5778.4	5718.3	5928.7	6413.4	6529.9	7255.0	7938.8
30°	6605.0	6605.0	6608.8	6417.1	6161.7	5864.8	5955.0	6387.1	6462.2	7119.7	7822.3
32.5°	7070.9	7059.6	7040.8	6946.9	6552.4	6109.1	6082.8	6353.3	6390.8	7074.6	7788.5
35°	7525.5	7495.4	7642.0	7559.3	7157.3	6586.2	6214.3	6368.3	6451.0	7007.0	7683.3
37.5°	7867.4	7886.2	8190.5	8243.1	7897.4	7127.2	6586.2	6518.6	6597.5	7104.7	7683.3
40°	8310.7	8385.9	8671.4	8848.0	8637.6	7841.1	7176.1	6770.3	6826.7	7322.6	7848.6
42.5°	8893.1	8956.9	9321.4	9550.6	9490.5	8750.3	7758.4	7296.3	7251.2	7687.0	8096.6
45°	9663.3	9674.6	10042.8	10358.4	10482.3	9700.9	8682.7	7961.3	7923.7	8314.5	8551.2
47.5°	10580.0	10568.7	10797.9	11136.1	11470.5	10835.5	9745.9	8972.0	8836.7	9212.4	9306.4
50°	11466.7	11417.9	11470.5	11902.5	12545.0	12255.7	11038.4	10208.1	10072.8	10279.5	10441.0
52.5°	11955.1	12015.2	11872.5	12443.5	13687.1	13935.1	12751.6	11684.6	11568.1	11669.6	11951.4
55°	11613.2	11737.2	11643.3	12184.3	14186.8	15982.7	14968.3	13394.1	13243.8	13206.2	13668.4
57.5°	10159.2	10384.7	10403.4	11260.1	14014.0	17568.2	18086.7	15411.7	15186.2	14803.0	15280.2
60°	7799.8	8025.2	8198.0	9212.4	12533.7	18515.0	21701.1	18282.1	17538.2	16546.3	16831.8
62.5°	5466.6	5620.6	5793.5	6417.1	9663.3	17959.0	24827.0	22324.7	20953.4	18383.5	18740.5
65°	3982.5	4102.8	4279.3	4647.5	5936.2	14859.4	26277.2	27126.3	25826.4	20720.5	20675.4
67.5°	2998.2	3073.3	3306.3	3896.1	4114.0	9178.6	24774.4	32198.4	31146.4	23316.6	22230.8
70°	2269.3	2333.2	2551.1	3358.9	3843.5	4921.8	19544.5	33329.3	33629.9	26228.4	23275.3
72.5°	1563.0	1634.3	1878.6	2799.0	3659.4	3903.6	12267.0	30278.5	31416.9	27426.9	22155.7
75°	958.1	1006.9	1149.7	2122.8	3633.1	3817.2	6751.5	24811.9	26018.0	25341.7	19382.9
77.5°	676.3	672.5	698.8	1243.6	3148.5	3839.8	4162.9	18180.7	19352.9	18676.6	13153.6
80°	492.2	495.9	522.2	743.9	2137.8	3903.6	3280.0	12176.8	12526.2	9738.4	5188.6
82.5°	296.8	311.8	375.7	503.5	1284.9	3524.2	3032.0	6766.6	6330.7	3125.9	1427.7
85°	157.8	157.8	221.7	319.4	683.8	2630.0	2919.3	3219.8	2697.6	969.3	529.8
87.5°	37.6	37.6	63.9	127.7	274.3	1258.6	1991.3	1281.2	1025.7	326.9	217.9
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°	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1	7856.1
2.5°	7942.5	7897.4	7953.8	7841.1	7750.9	7754.7	7615.7	7608.1	7589.4	7491.7	7525.5
5°	8032.7	7995.1	7931.3	7807.3	7608.1	7409.0	7288.8	7134.8	7070.9	7037.1	7052.1
7.5°	8119.1	8051.5	7867.4	7694.6	7386.5	7010.8	6792.9	6586.2	6323.2	6293.2	6240.6
10°	8141.7	7998.9	7762.2	7394.0	6984.5	6567.4	6071.5	5688.3	5485.4	5327.6	5267.5
12.5°	8107.8	8047.7	7593.1	7119.7	6499.8	5846.1	5267.5	4726.4	4350.7	4155.4	4102.8
15°	8104.1	7998.9	7405.3	6702.7	5909.9	5057.1	4234.3	3584.3	3189.8	3028.2	3028.2
17.5°	8107.8	7856.1	7183.6	6281.9	5214.9	4061.4	3156.0	2622.5	2404.5	2382.0	2400.8
20°	8032.7	7750.9	6950.7	5785.9	4343.2	3050.8	2291.8	2073.9	2073.9	2104.0	2115.3
22.5°	7965.1	7593.1	6582.5	5173.5	3456.5	2209.2	1863.5	1799.7	1871.0	1923.6	1946.2
25°	7871.1	7461.6	6206.7	4538.6	2630.0	1780.9	1619.3	1634.3	1702.0	1795.9	1788.4
27.5°	7735.9	7232.4	5759.6	3802.2	1957.5	1536.7	1495.3	1502.8	1574.2	1615.6	1608.0
30°	7581.8	6999.5	5346.4	3069.6	1551.7	1408.9	1405.2	1423.9	1435.2	1457.8	1454.0
32.5°	7386.5	6691.4	4906.8	2385.8	1397.6	1337.5	1322.5	1311.2	1322.5	1318.7	1307.5
35°	7247.5	6526.1	4459.7	1818.4	1311.2	1273.7	1262.4	1243.6	1228.6	1206.0	1202.3
37.5°	7209.9	6360.8	3990.1	1484.1	1243.6	1224.8	1187.2	1153.4	1134.6	1123.4	1115.9
40°	7187.4	6251.8	3531.7	1303.7	1187.2	1168.5	1123.4	1078.3	1059.5	1048.2	1052.0
42.5°	7266.2	6191.7	3065.8	1213.5	1138.4	1104.6	1055.7	1003.1	999.4	991.9	1003.1
45°	7544.3	6266.9	2633.7	1149.7	1089.6	1033.2	969.3	943.0	939.3	931.8	939.3
47.5°	8175.5	6454.7	2265.5	1108.3	1037.0	988.1	920.5	882.9	879.2	875.4	875.4
50°	9047.1	7033.3	1957.5	1059.5	1003.1	935.5	871.6	830.3	822.8	807.8	807.8
52.5°	10414.7	8006.4	1773.4	1033.2	943.0	886.7	819.0	774.0	755.2	740.2	740.2
55°	11955.1	9212.4	1739.5	988.1	879.2	826.6	766.5	721.4	702.6	683.8	676.3
57.5°	13709.7	10809.2	1980.0	958.1	834.1	766.5	698.8	657.5	642.5	623.7	616.2
60°	15344.0	12402.2	2727.7	913.0	792.8	710.1	642.5	601.1	582.4	563.6	563.6
62.5°	17233.9	14374.7	3993.8	913.0	755.2	650.0	582.4	552.3	541.0	522.2	518.5
65°	19469.3	16414.8	4918.1	969.3	743.9	597.4	526.0	495.9	484.7	473.4	469.6
67.5°	21171.3	17587.0	4230.5	1119.6	792.8	552.3	469.6	450.9	443.3	432.1	424.6
70°	21351.7	16873.2	2551.1	1209.8	841.6	507.2	420.8	402.0	402.0	390.7	383.2
72.5°	19732.3	14972.1	1717.0	1078.3	762.7	454.6	372.0	356.9	349.4	341.9	338.1
75°	16512.5	12699.0	1356.3	860.4	586.1	375.7	323.1	308.1	296.8	293.1	285.5
77.5°	11091.0	8254.4	1003.1	672.5	432.1	304.3	270.5	255.5	244.2	240.5	229.2
80°	4260.6	3144.7	646.2	488.4	304.3	240.5	214.2	199.1	191.6	180.3	172.8
82.5°	1254.9	1018.2	360.7	300.6	195.4	165.3	154.0	142.8	131.5	120.2	116.5
85°	518.5	465.9	221.7	157.8	120.2	97.7	90.2	78.9	67.6	60.1	52.6
87.5°	240.5	199.1	101.4	60.1	41.3	22.5	11.3	3.8	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)