

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: P481073

Luminaire Tested: **IFLD-L-SA8B-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481073
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

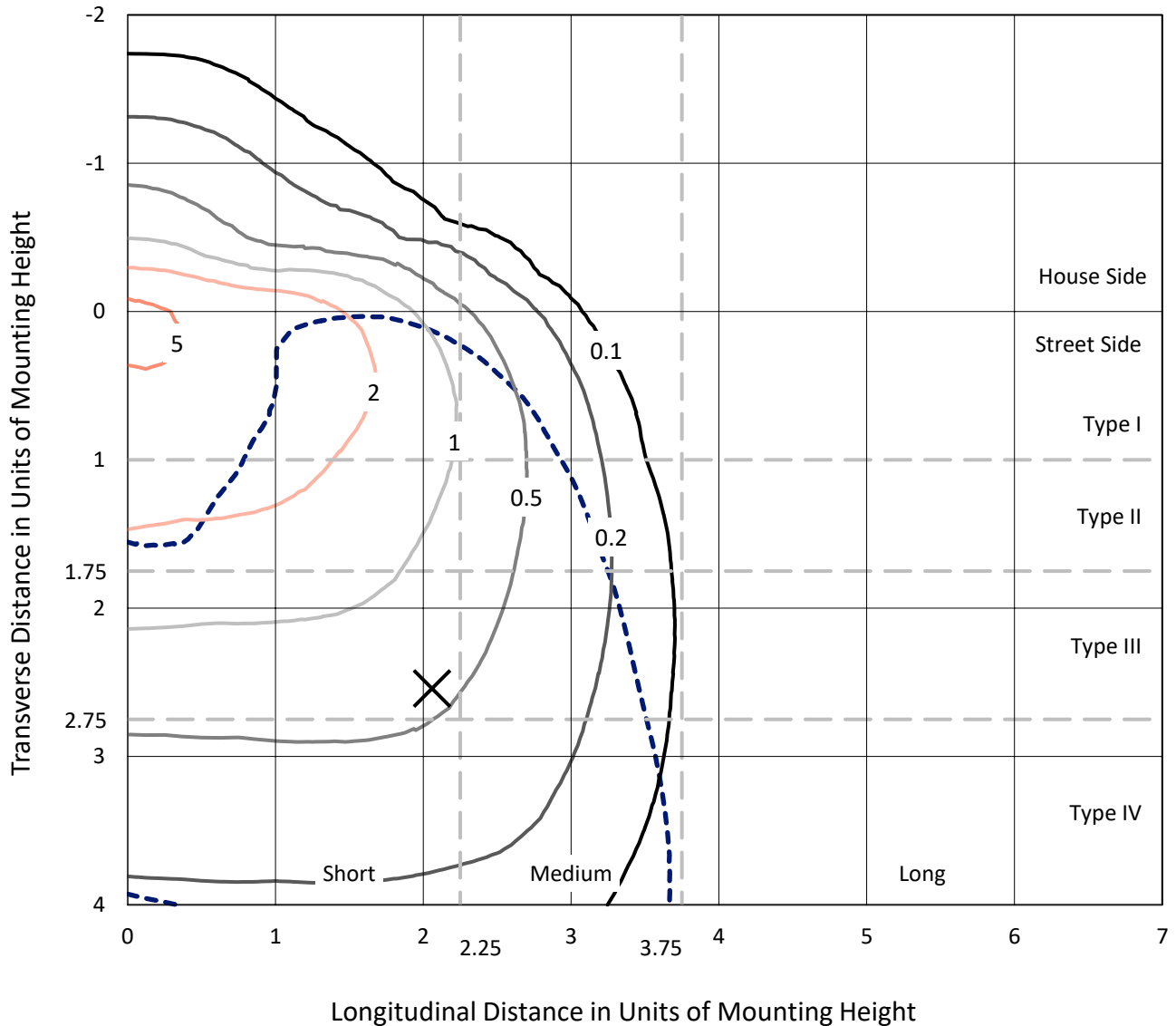
Lumens per Lamp: N/A
Luminaire Lumens: 31281.1 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

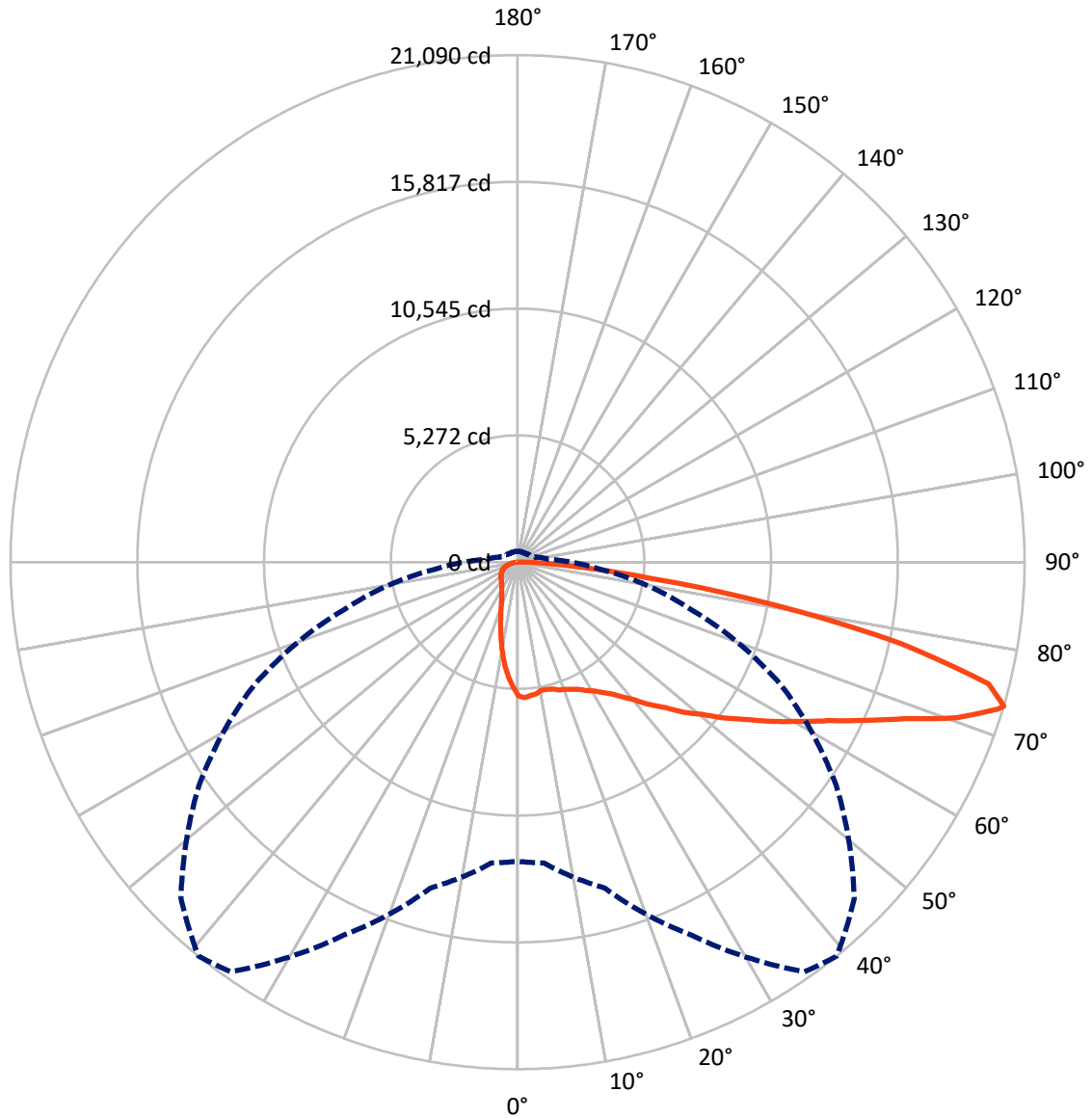
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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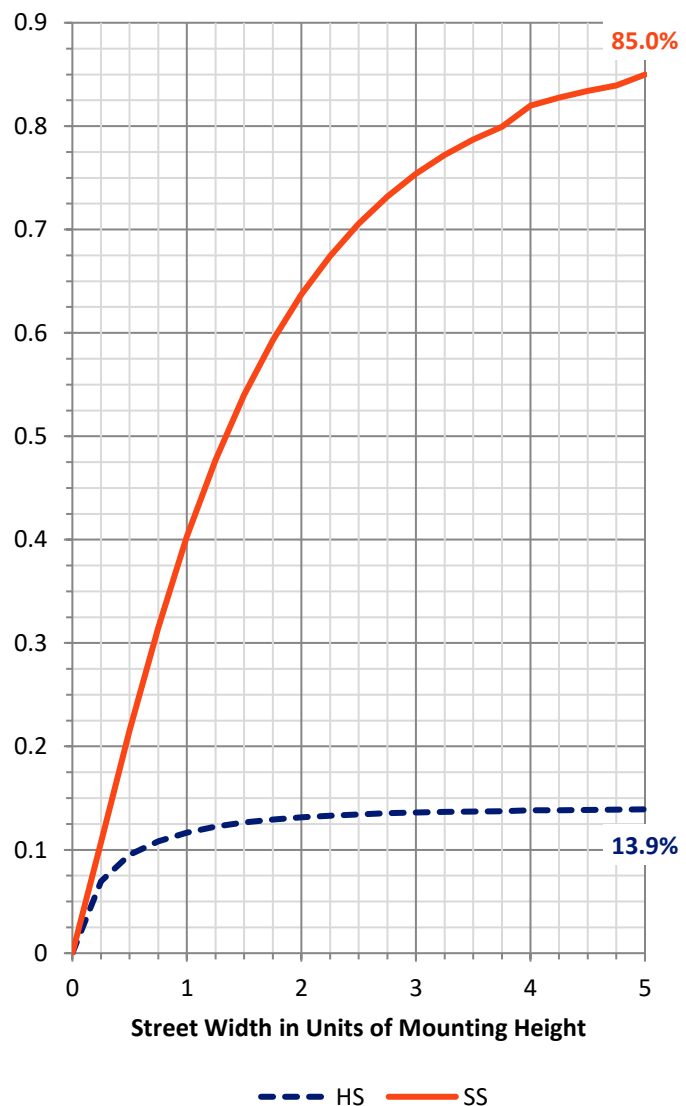
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4397.3	0.0	4397.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	26883.8	0.0	26883.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	31281.1	0.0	31281.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.4	1.5
10°-20°	1228.8	3.9
20°-30°	1877.7	6.0
30°-40°	2737.8	8.8
40°-50°	4137.0	13.2
50°-60°	5990.7	19.2
60°-70°	7611.5	24.3
70°-80°	6170.3	19.7
80°-90°	1044.0	3.3
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°	31281.1	100.0
0°-180°	31281.1	100.0

Coefficient of Utilization



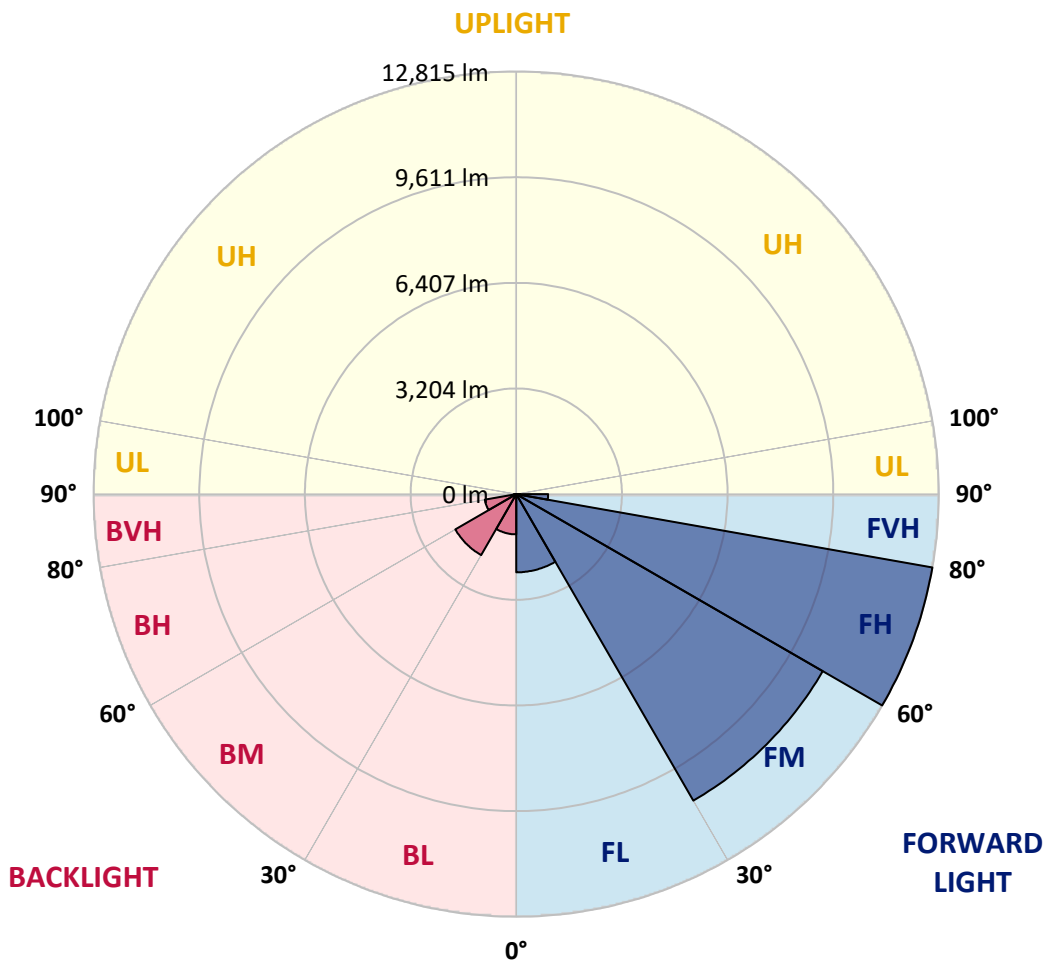
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2370.4	7.6			
FM (30°-60°)	10731.4	34.3			
FH (60°-80°)	12814.6	41.0			G5
FVH (80°-90°)	967.4	3.1			G5
BL (0°-30°)	1219.4	3.9	B3/2500		
BM (30°-60°)	2134.1	6.8	B2/2500		
BH (60°-80°)	967.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	76.6	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2
2.5°	5701.2	5641.7	5652.2	5631.2	5652.2	5645.2	5634.7	5582.2	5634.7	5582.2	5568.2
5°	5624.2	5624.2	5659.2	5606.7	5613.7	5578.7	5613.7	5575.2	5540.2	5452.7	5428.2
7.5°	5599.7	5596.2	5599.7	5526.2	5561.2	5540.2	5505.2	5463.2	5393.2	5337.2	5256.7
10°	5431.7	5466.7	5428.2	5449.2	5477.2	5414.2	5410.7	5400.2	5368.7	5295.2	5246.2
12.5°	5340.7	5400.2	5421.2	5403.7	5428.2	5435.2	5414.2	5400.2	5361.7	5312.7	5172.7
15°	5379.2	5309.2	5368.7	5484.2	5459.7	5477.2	5480.7	5466.7	5449.2	5358.2	5267.2
17.5°	5389.7	5347.7	5473.7	5498.2	5529.7	5592.7	5550.7	5547.2	5480.7	5417.7	5284.7
20°	5414.2	5396.7	5498.2	5627.7	5631.2	5641.7	5662.7	5610.2	5575.2	5466.7	5263.7
22.5°	5505.2	5564.7	5659.2	5715.2	5746.7	5753.7	5753.7	5648.7	5610.2	5522.7	5361.7
25°	5778.2	5715.2	5848.2	5914.7	5869.2	5858.7	5834.2	5739.7	5697.7	5620.7	5407.2
27.5°	5977.7	5974.2	6051.2	6142.2	6019.7	6044.2	5956.7	5928.7	5834.2	5792.2	5487.7
30°	6250.7	6327.7	6324.2	6352.2	6191.2	6219.2	6107.2	6054.7	6002.2	6026.7	5725.7
32.5°	6600.7	6572.7	6618.2	6597.2	6436.2	6460.7	6327.7	6247.2	6264.7	6338.2	6051.2
35°	6824.6	6796.7	6814.2	6814.2	6765.2	6737.2	6681.2	6576.2	6660.2	6796.7	6415.2
37.5°	7066.1	7101.1	7202.6	7181.6	7118.6	7118.6	7111.6	7038.1	7146.6	7482.6	6996.1
40°	7279.6	7374.1	7437.1	7479.1	7552.6	7552.6	7612.1	7570.1	7766.1	8305.1	7706.6
42.5°	7503.6	7507.1	7850.1	7881.6	8046.1	8116.1	8161.6	8196.6	8564.1	9166.0	8466.1
45°	7790.6	7808.1	8109.1	8350.6	8606.1	8630.6	8802.0	8917.5	9369.0	10107.5	9292.0
47.5°	8168.6	8147.6	8469.6	8854.5	9173.0	9341.0	9547.5	9673.5	10230.0	11129.4	10195.0
50°	8665.6	8602.6	8788.0	9393.5	9768.0	9953.5	10321.0	10531.0	11181.9	12105.9	10814.4
52.5°	9271.0	9166.0	9313.0	9974.5	10394.5	10768.9	11118.9	11353.4	12032.4	12861.8	11272.9
55°	9911.5	9694.5	9736.5	10590.5	11195.9	11549.4	12028.9	12273.9	12966.8	13540.8	11731.4
57.5°	10545.0	10408.5	10324.5	11181.9	12151.4	12490.9	12931.8	13250.3	13838.3	14142.8	12119.9
60°	11076.9	11041.9	10905.4	12098.9	13162.8	13453.3	13915.3	14111.3	14555.8	14699.2	12126.9
62.5°	11514.4	11395.4	11612.4	12837.3	14191.8	14520.8	15028.2	15045.7	15360.7	15045.7	11769.9
65°	11857.4	11864.4	12210.9	13729.8	15381.7	15868.2	16277.7	16232.2	16029.2	14839.2	10926.4
67.5°	12168.9	12301.9	12809.3	14709.7	16911.1	17369.6	17824.6	17222.6	16211.2	13873.3	9278.0
70°	12413.9	12546.9	13617.8	15903.2	18713.5	19385.5	19487.0	17614.6	15374.7	11752.4	6999.6
72.5°	12385.9	12627.4	14076.3	16855.1	20313.0	20893.9	20075.0	16512.2	12809.3	8193.1	4084.3
73°	12445.4	12564.4	14037.8	17121.1	20799.4	21089.9	19802.0	16165.7	12081.4	7349.6	3454.3
75°	11297.4	11699.9	13341.3	16687.1	20278.0	20225.5	18234.1	13470.8	8588.6	3860.3	1672.9
77.5°	8357.6	8613.1	10513.5	13722.8	16645.1	16309.2	13754.3	8609.6	4077.3	1431.4	903.0
80°	4084.3	4283.8	5571.7	7923.6	10884.4	10912.4	8536.1	4479.8	1746.4	808.5	616.0
82.5°	2040.4	2159.4	2677.4	3482.3	5354.7	5610.2	4329.3	2547.9	1081.4	458.5	350.0
85°	1333.4	1417.4	1648.4	1704.4	2271.4	2397.4	2015.9	1987.9	703.5	248.5	283.5
87.5°	885.5	899.5	1011.4	861.0	910.0	875.0	973.0	1252.9	206.5	105.0	77.0
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°	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2	5568.2
2.5°	5550.7	5501.7	5449.2	5375.7	5323.2	5242.7	5169.2	5137.7	5130.7	5134.2	5099.2
5°	5407.2	5337.2	5232.2	5081.7	4994.2	4861.3	4749.3	4689.8	4626.8	4637.3	4609.3
7.5°	5207.7	5130.7	4969.7	4794.8	4577.8	4388.8	4283.8	4136.8	4052.8	3989.8	4024.8
10°	5144.7	5011.7	4770.3	4528.8	4192.8	3944.3	3702.8	3534.8	3419.3	3307.3	3356.3
12.5°	5113.2	4980.2	4644.3	4287.3	3853.3	3475.3	3135.8	2929.3	2764.9	2666.9	2705.4
15°	5085.2	4920.7	4525.3	4021.3	3534.8	3037.8	2656.4	2383.4	2225.9	2131.4	2141.9
17.5°	5123.7	4889.2	4350.3	3762.3	3184.8	2652.9	2229.4	1945.9	1784.9	1725.4	1711.4
20°	5085.2	4854.3	4178.8	3503.3	2834.9	2285.4	1879.4	1644.9	1532.9	1483.9	1473.4
22.5°	5099.2	4770.3	4000.3	3216.3	2509.4	1977.4	1644.9	1466.4	1378.9	1354.4	1361.4
25°	5165.7	4721.3	3821.8	2901.4	2187.4	1749.9	1494.4	1357.9	1294.9	1270.4	1277.4
27.5°	5214.7	4763.3	3660.8	2603.9	1914.4	1546.9	1368.4	1277.4	1235.4	1217.9	1214.4
30°	5337.2	4787.8	3503.3	2337.9	1690.4	1413.9	1280.9	1207.4	1179.4	1168.9	1165.4
32.5°	5519.2	4833.3	3321.3	2092.9	1525.9	1287.9	1210.9	1147.9	1140.9	1130.4	1133.9
35°	5816.7	4990.7	3118.3	1882.9	1368.4	1203.9	1137.4	1095.4	1095.4	1095.4	1105.9
37.5°	6243.7	5211.2	2936.3	1683.4	1266.9	1130.4	1074.4	1060.4	1053.4	1063.9	1070.9
40°	6793.2	5477.2	2789.4	1525.9	1179.4	1081.4	1032.4	1025.4	1021.9	1018.4	1025.4
42.5°	7395.1	5816.7	2663.4	1403.4	1116.4	1028.9	993.9	986.9	973.0	979.9	990.4
45°	7993.6	6236.7	2551.4	1305.4	1074.4	1000.9	952.0	948.5	941.5	938.0	955.5
47.5°	8658.6	6649.7	2516.4	1245.9	1042.9	959.0	924.0	920.5	899.5	896.0	910.0
50°	9176.5	6954.1	2554.9	1217.9	997.4	927.5	903.0	885.5	868.0	850.5	850.5
52.5°	9533.5	7164.1	2582.9	1196.9	973.0	885.5	854.0	847.0	829.5	812.0	805.0
55°	9855.5	7290.1	2589.9	1200.4	948.5	836.5	815.5	812.0	801.5	773.5	766.5
57.5°	9964.0	7237.6	2449.9	1168.9	934.5	805.0	777.0	784.0	770.0	745.5	742.0
60°	9953.5	6873.6	2131.4	1126.9	903.0	770.0	735.0	756.0	756.0	728.0	724.5
62.5°	9348.0	6033.7	1742.9	1046.4	868.0	735.0	696.5	728.0	738.5	721.0	717.5
65°	8091.6	4913.7	1455.9	966.0	815.5	696.5	658.0	693.0	710.5	703.5	700.0
67.5°	6695.2	3758.8	1210.9	861.0	749.0	644.0	612.5	637.0	647.5	651.0	654.5
70°	4731.8	2502.4	1011.4	745.5	658.0	588.0	553.0	556.5	553.0	563.5	563.5
72.5°	2572.4	1441.9	822.5	633.5	567.0	511.0	486.5	469.0	469.0	465.5	465.5
73°	2201.4	1294.9	784.0	616.0	542.5	497.0	469.0	455.0	455.0	451.5	448.0
75°	1235.4	948.5	672.0	528.5	469.0	434.0	413.0	392.0	388.5	388.5	388.5
77.5°	812.0	738.5	535.5	423.5	378.0	346.5	339.5	318.5	318.5	318.5	315.0
80°	609.0	581.0	413.0	322.0	290.5	266.0	259.0	245.0	241.5	227.5	231.0
82.5°	406.0	458.5	301.0	227.5	196.0	182.0	182.0	178.5	168.0	150.5	150.5
85°	322.0	374.5	217.0	140.0	115.5	98.0	101.5	98.0	94.5	77.0	73.5
87.5°	59.5	150.5	63.0	38.5	28.0	17.5	17.5	10.5	7.0	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)