

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: P480480

Luminaire Tested: **IFLD-M-SA4D-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480480
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

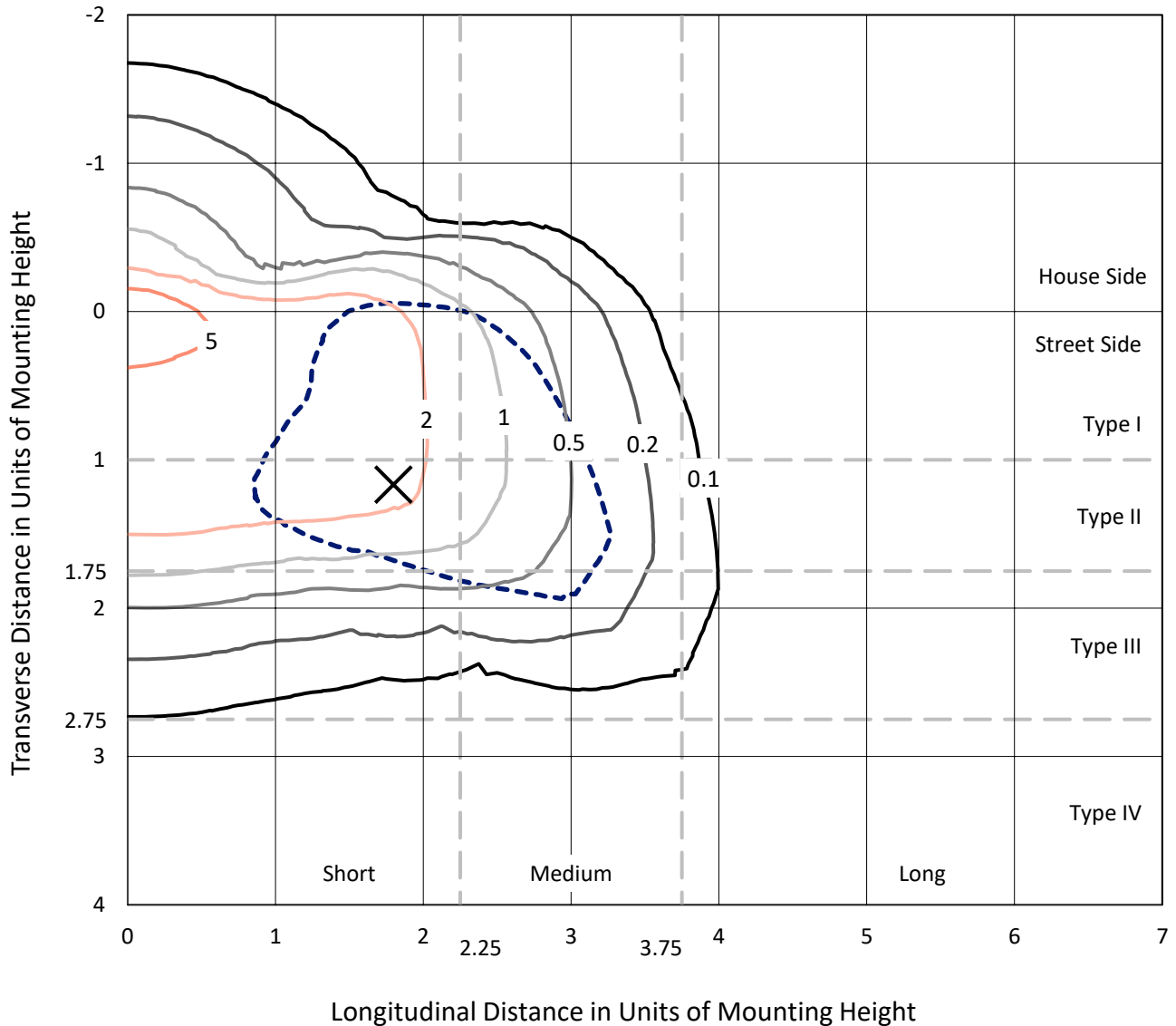
Lumens per Lamp: N/A
Luminaire Lumens: 30445.8 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

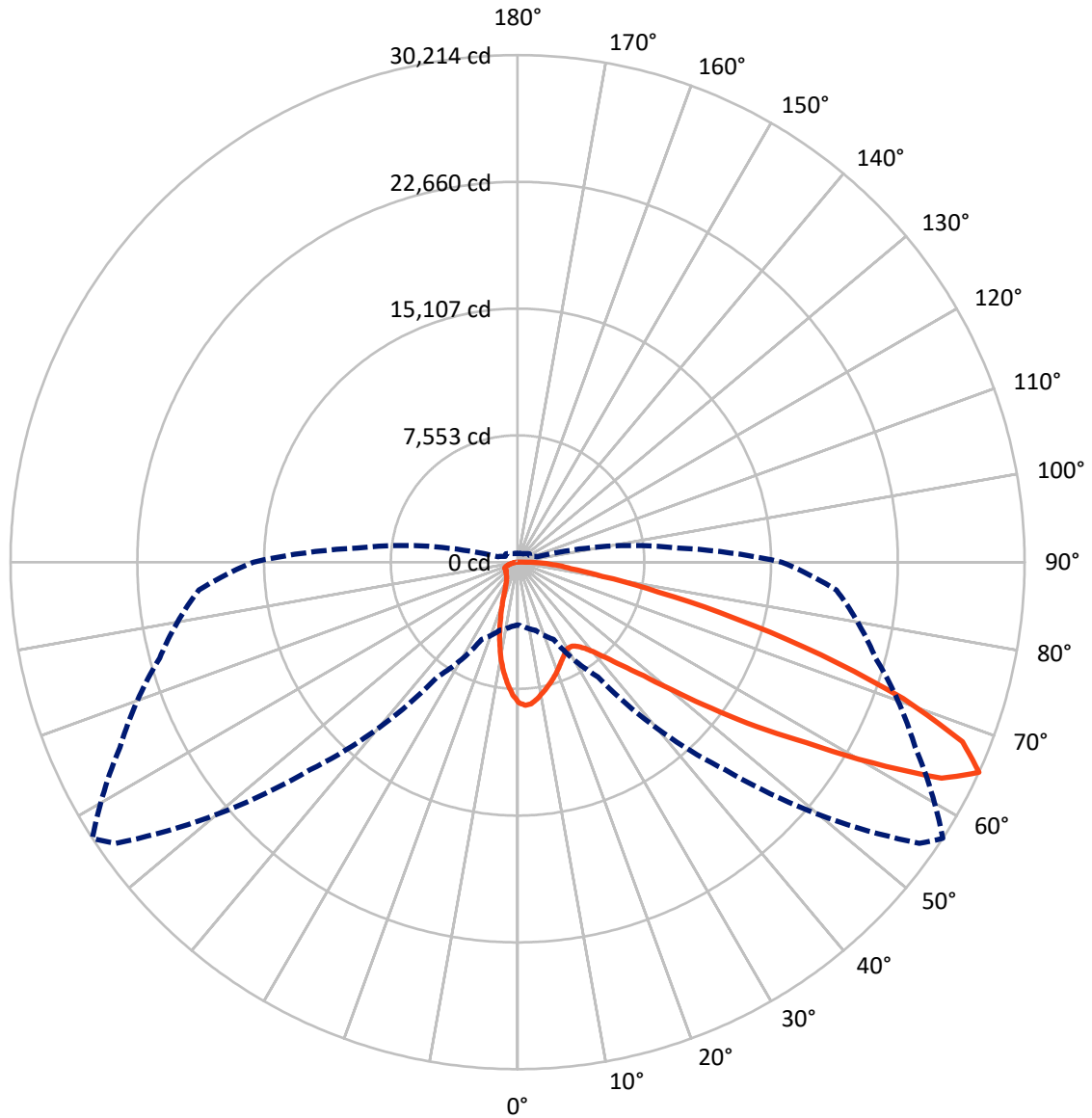
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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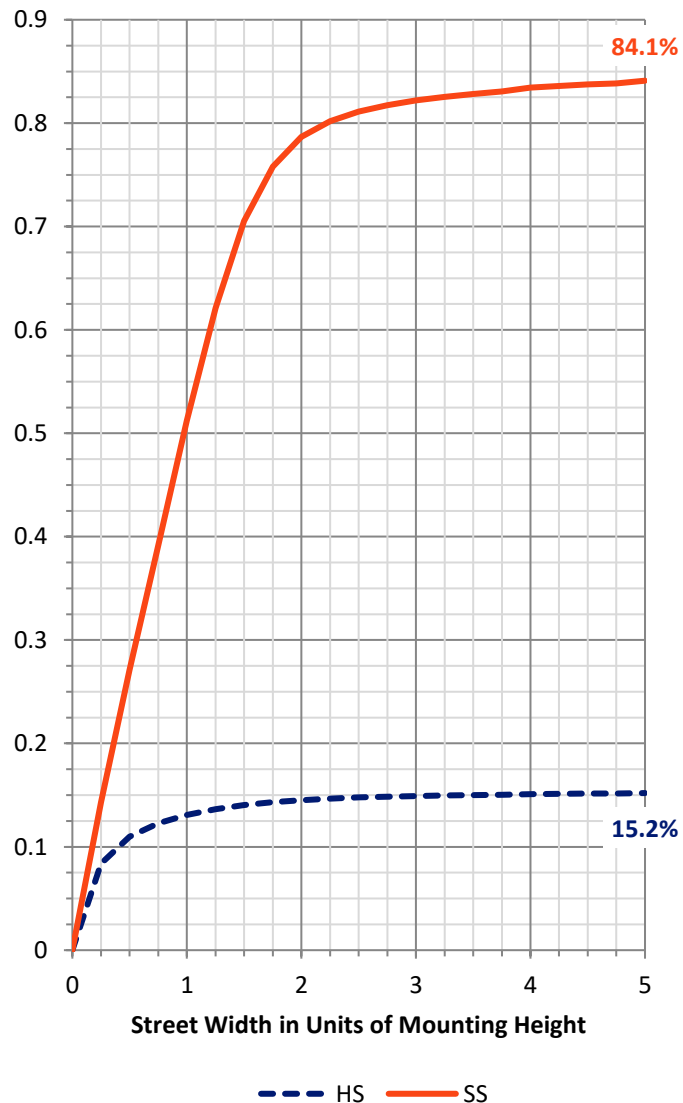
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4669.1	0.0	4669.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	25776.6	0.0	25776.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	30445.8	0.0	30445.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.1	2.3
10°-20°	1508.9	5.0
20°-30°	1950.9	6.4
30°-40°	2625.2	8.6
40°-50°	4186.0	13.7
50°-60°	7393.5	24.3
60°-70°	8133.9	26.7
70°-80°	3402.5	11.2
80°-90°	543.8	1.8
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°	30445.8	100.0
0°-180°	30445.8	100.0

Coefficient of Utilization



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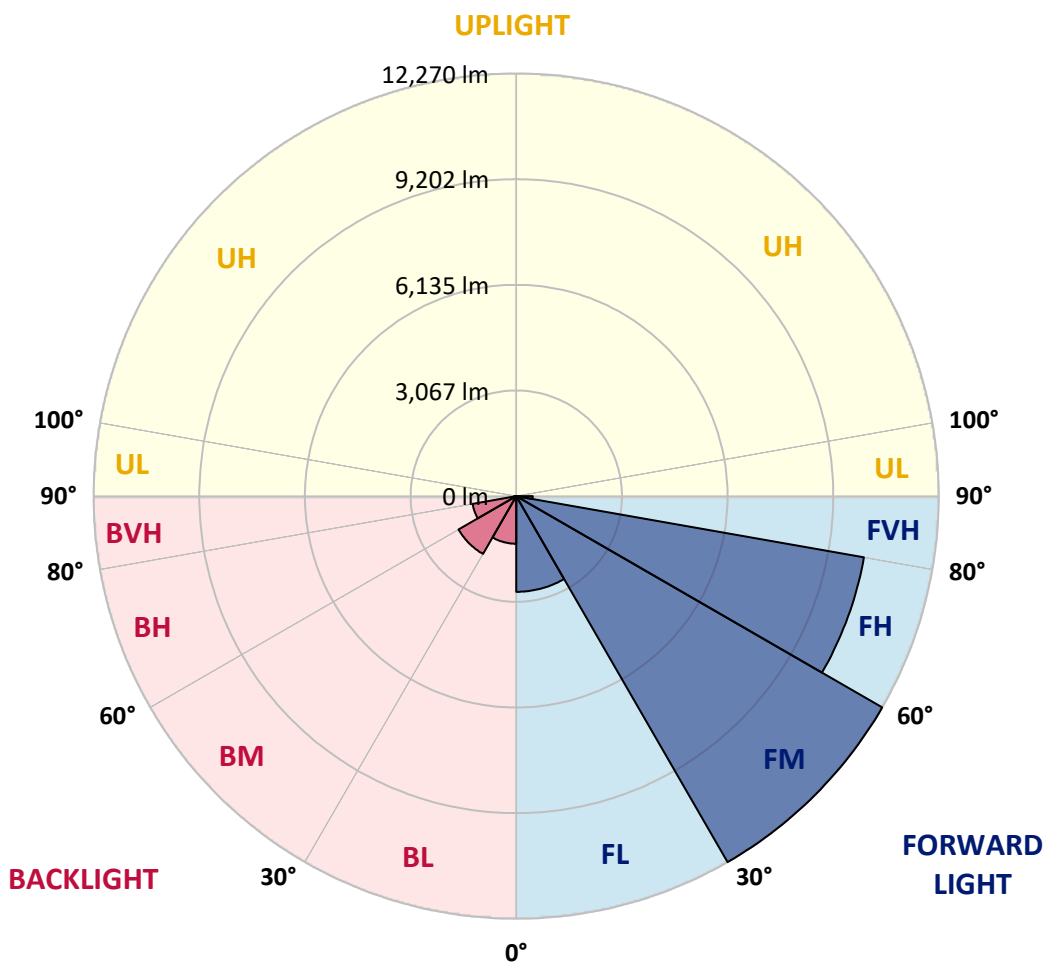
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2778.1	9.1			
FM (30°-60°)	12269.6	40.3			
FH (60°-80°)	10249.0	33.7			G4/12000
FVH (80°-90°)	480.0	1.6			G3/500
BL (0°-30°)	1382.8	4.5	B3/2500		
BM (30°-60°)	1935.1	6.4	B2/2500		
BH (60°-80°)	1287.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	63.8	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2
2.5°	8598.2	8611.9	8611.9	8639.3	8546.9	8591.4	8584.5	8543.4	8557.1	8485.2	8413.3
5°	8355.0	8344.7	8399.6	8406.4	8478.3	8498.9	8516.0	8488.6	8495.5	8337.9	8269.4
7.5°	7731.6	7728.1	7820.6	7899.4	8050.1	8190.6	8283.1	8255.7	8293.4	8194.0	8033.0
10°	6991.6	7070.4	7166.3	7245.1	7522.6	7700.7	7940.5	7964.5	8108.4	8084.4	7793.2
12.5°	6436.7	6470.9	6542.9	6769.0	7022.5	7317.1	7659.6	7690.5	7830.9	7899.4	7645.9
15°	5981.1	6011.9	6104.4	6272.3	6556.6	6906.0	7341.0	7419.8	7700.7	7724.7	7454.1
17.5°	5648.8	5672.8	5734.4	5902.3	6135.2	6584.0	6995.1	7135.5	7505.5	7621.9	7255.4
20°	5518.6	5467.2	5501.5	5607.7	5840.6	6186.6	6717.6	6840.9	7313.6	7543.2	7067.0
22.5°	5460.4	5415.9	5436.4	5429.6	5614.5	5861.2	6419.6	6549.7	7132.1	7450.7	6899.1
25°	5504.9	5504.9	5484.4	5467.2	5487.8	5648.8	6097.6	6299.7	6888.9	7371.9	6727.9
27.5°	5744.7	5652.2	5662.5	5590.6	5570.0	5570.0	5953.7	6073.6	6810.1	7327.3	6587.4
30°	5898.9	5943.4	5946.8	5840.6	5734.4	5542.6	5820.1	5936.6	6745.0	7382.2	6505.2
32.5°	6292.8	6272.3	6214.0	6193.5	6035.9	5820.1	5885.2	5964.0	6707.3	7505.5	6529.2
35°	6686.8	6676.5	6679.9	6669.6	6505.2	6186.6	6059.9	6166.1	6775.8	7721.3	6611.4
37.5°	7094.4	7121.8	7238.3	7238.3	7063.6	6717.6	6549.7	6518.9	7025.9	8074.1	6806.7
40°	7502.1	7570.6	7717.9	7950.8	7704.2	7382.2	7111.5	7063.6	7327.3	8546.9	7276.0
42.5°	7892.6	8005.6	8296.8	8642.8	8560.6	8238.6	7878.9	7824.1	7947.4	9249.1	7930.3
45°	8392.7	8488.6	8947.7	9478.6	9591.7	9307.3	8886.0	8841.5	8834.6	10276.8	8831.2
47.5°	9153.2	9256.0	9715.0	10249.4	10598.8	10643.3	10170.6	10122.6	9958.2	11664.1	10150.0
50°	10105.5	10273.4	10660.4	11283.9	11790.9	12267.1	12133.5	11993.0	11671.0	13277.6	11821.7
52.5°	10800.9	11006.4	11530.6	12328.7	13222.8	13979.9	14459.4	14459.4	13719.5	15048.6	13832.6
55°	10985.9	11109.2	11770.3	12924.8	14456.0	16370.9	17374.6	17299.3	16158.5	16912.2	16172.2
57.5°	10249.4	10410.4	11212.0	12421.2	15103.4	18607.8	20269.2	20286.4	18823.6	19077.1	18481.1
60°	8221.4	8272.8	9218.3	10835.2	14480.0	20409.7	24222.4	24287.5	21855.3	21005.7	19656.1
62.5°	5683.1	5847.5	6560.0	7978.2	11996.4	20207.6	28035.1	28357.1	24284.0	22023.1	19841.0
65°	3740.7	3840.1	4220.3	5083.6	8351.6	17515.1	29220.3	30213.7	26140.7	22081.4	19066.9
67.5°	2713.1	2730.2	2843.2	3288.6	5018.5	12595.9	27195.8	28596.9	26836.1	21594.9	17251.3
70°	2192.4	2206.1	2247.2	2531.5	3240.6	7882.3	22180.7	24376.5	24749.9	19289.5	13894.2
72.5°	1781.3	1798.4	1849.8	2117.0	2672.0	4384.8	16220.2	18895.6	20132.2	14271.0	9235.4
75°	1401.1	1414.8	1538.1	1801.9	2511.0	3011.1	10759.8	13380.4	13548.2	8341.3	4323.1
77.5°	959.2	983.1	1133.9	1527.8	2363.7	2634.3	6707.3	8570.8	7690.5	3264.6	1486.7
80°	609.8	644.0	733.1	1157.9	2089.6	2514.4	4172.4	5117.8	3367.4	1116.7	715.9
82.5°	359.7	393.9	483.0	750.2	1640.9	2332.8	2939.2	3202.9	1579.2	572.1	431.6
85°	198.7	222.7	291.2	452.2	962.6	2072.5	2353.4	2298.6	904.4	304.9	270.6
87.5°	65.1	75.4	106.2	181.6	397.4	976.3	1411.3	1325.7	469.3	140.4	106.2
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°	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2	8372.2
2.5°	8365.3	8355.0	8200.9	8084.4	7885.7	7721.3	7656.2	7567.1	7563.7	7498.6	7481.5
5°	8163.2	8057.0	7820.6	7594.5	7241.7	7005.3	6789.5	6638.8	6577.1	6443.5	6412.7
7.5°	7902.8	7762.4	7399.3	6974.5	6560.0	6190.0	5854.3	5518.6	5330.2	5265.1	5193.2
10°	7632.2	7385.6	6847.8	6371.6	5792.7	5224.0	4696.5	4223.8	3966.8	3785.3	3706.5
12.5°	7416.4	7087.6	6402.4	5689.9	4926.0	4165.5	3552.3	3055.6	2764.5	2627.4	2565.8
15°	7173.2	6738.1	5916.0	5015.1	4062.8	3199.5	2600.0	2209.5	2093.0	2028.0	2017.7
17.5°	6916.3	6412.7	5388.5	4350.5	3220.1	2408.2	2021.1	1863.5	1812.1	1784.7	1771.0
20°	6676.5	6121.5	4847.2	3610.6	2521.2	1932.0	1750.5	1668.3	1664.8	1678.5	1675.1
22.5°	6337.3	5741.3	4312.8	2925.5	2014.2	1682.0	1565.5	1544.9	1565.5	1582.6	1589.5
25°	6145.5	5429.6	3716.8	2322.6	1664.8	1493.6	1455.9	1449.0	1479.9	1500.4	1497.0
27.5°	5946.8	5107.6	3161.8	1860.1	1459.3	1360.0	1353.1	1360.0	1390.8	1421.6	1418.2
30°	5792.7	4850.6	2641.1	1555.2	1301.7	1264.0	1257.2	1264.0	1281.2	1284.6	1284.6
32.5°	5665.9	4545.8	2199.2	1349.7	1205.8	1175.0	1181.8	1178.4	1181.8	1185.3	1188.7
35°	5590.6	4364.2	1836.1	1222.9	1127.0	1103.0	1099.6	1089.3	1092.8	1096.2	1092.8
37.5°	5751.6	4275.1	1548.4	1133.9	1072.2	1051.7	1044.8	1038.0	1027.7	1027.7	1027.7
40°	5994.8	4227.2	1373.7	1075.6	1031.1	1007.1	986.6	979.7	979.7	983.1	986.6
42.5°	6477.8	4306.0	1253.8	1031.1	979.7	952.3	931.8	935.2	945.5	955.7	948.9
45°	7176.6	4545.8	1199.0	996.8	948.9	911.2	897.5	894.1	904.4	921.5	935.2
47.5°	8091.3	4919.2	1178.4	966.0	928.3	877.0	859.8	870.1	883.8	907.8	897.5
50°	9588.2	5758.4	1195.5	938.6	897.5	859.8	839.3	829.0	839.3	856.4	863.2
52.5°	11544.3	7282.8	1260.6	924.9	877.0	846.1	811.9	794.7	805.0	818.7	818.7
55°	13883.9	9365.6	1442.2	907.8	842.7	825.6	787.9	753.6	760.5	760.5	757.1
57.5°	15946.1	10937.9	1658.0	883.8	822.1	798.2	750.2	709.1	702.2	705.7	709.1
60°	16871.1	11355.8	1760.8	877.0	822.1	763.9	698.8	657.7	647.4	640.6	640.6
62.5°	16710.0	10633.0	1551.8	846.1	842.7	736.5	650.9	606.3	592.6	578.9	582.4
65°	15737.2	9601.9	1222.9	805.0	846.1	719.4	602.9	558.4	534.4	517.3	513.8
67.5°	13959.3	8197.4	969.4	774.2	811.9	688.5	561.8	510.4	489.9	472.7	465.9
70°	10920.8	6426.4	842.7	733.1	729.7	613.2	513.8	469.3	438.5	417.9	417.9
72.5°	7080.7	4062.8	722.8	650.9	630.3	513.8	445.3	417.9	393.9	376.8	376.8
75°	3206.4	1887.5	582.4	544.7	513.8	411.1	376.8	363.1	342.6	325.4	325.4
77.5°	1151.0	805.0	435.1	428.2	383.7	318.6	304.9	294.6	280.9	263.8	263.8
80°	644.0	510.4	325.4	311.7	267.2	236.4	219.2	219.2	212.4	202.1	198.7
82.5°	407.6	332.3	239.8	209.0	174.7	157.6	150.7	147.3	143.9	130.2	126.7
85°	256.9	226.1	157.6	123.3	102.8	78.8	75.4	71.9	65.1	58.2	58.2
87.5°	116.5	130.2	61.7	37.7	27.4	17.1	10.3	3.4	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)