

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: P476900

Luminaire Tested: **IFLD-L-SA8B-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476900
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-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

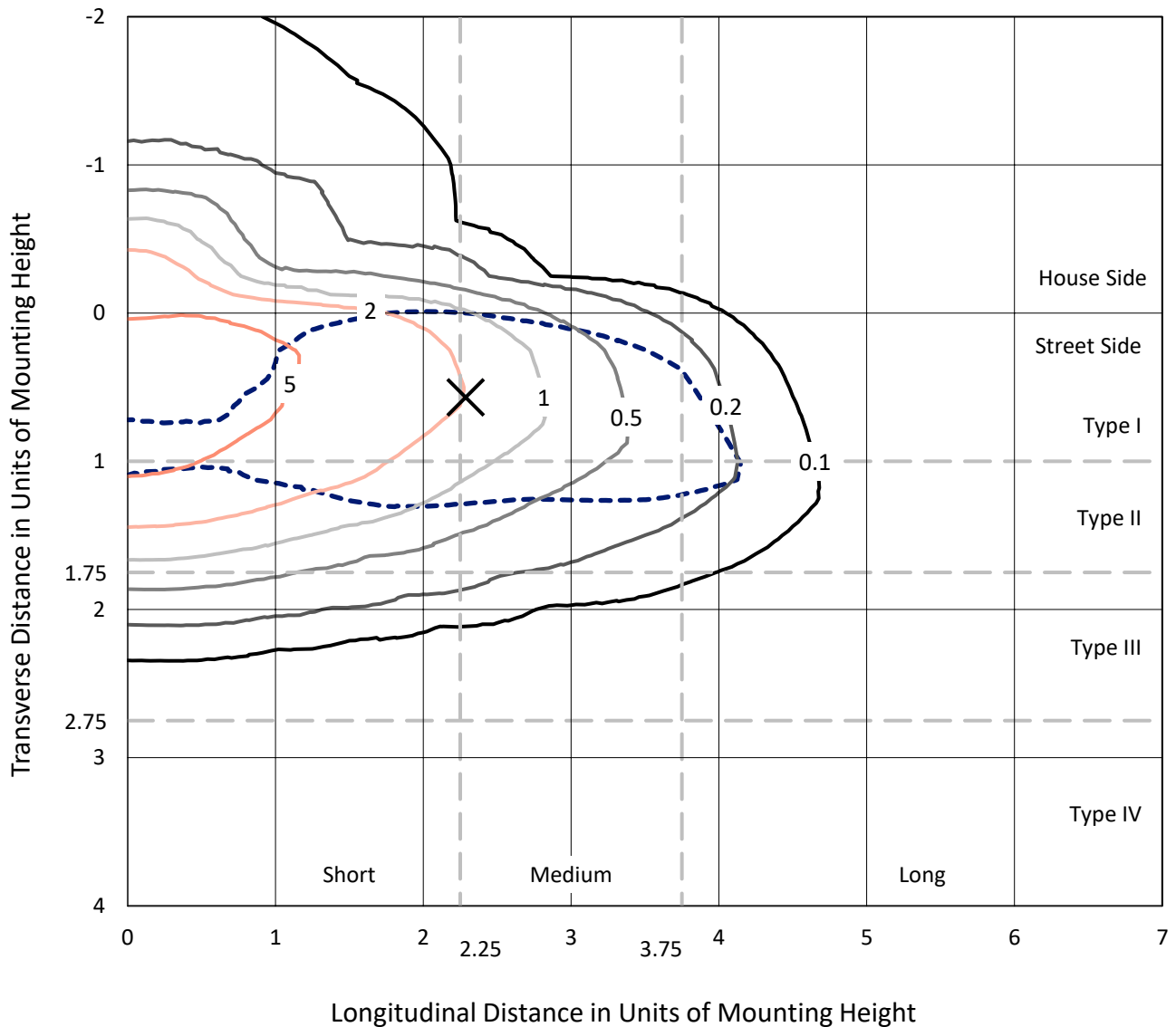
Lumens per Lamp: N/A
Luminaire Lumens: 34227.6 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

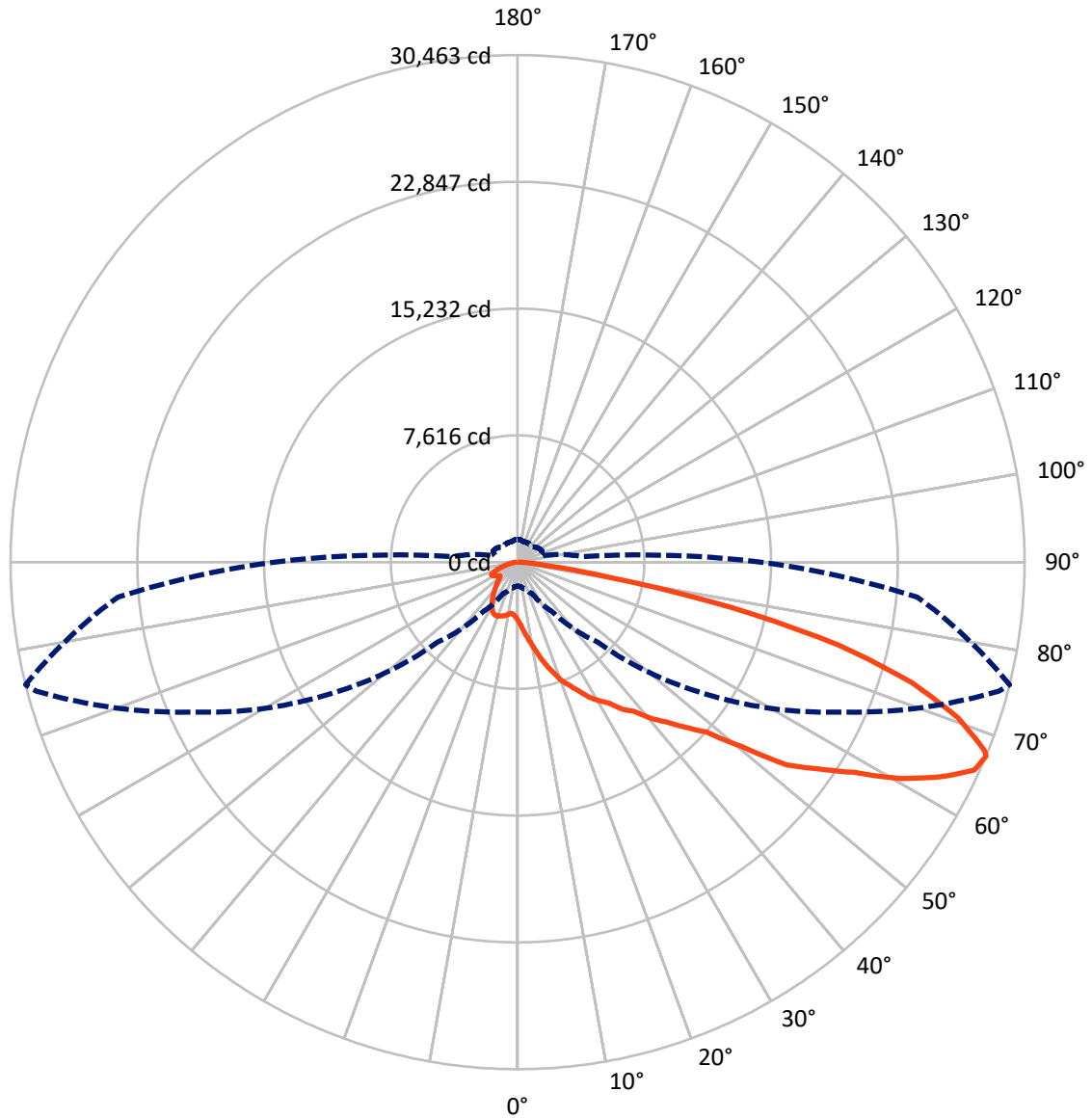
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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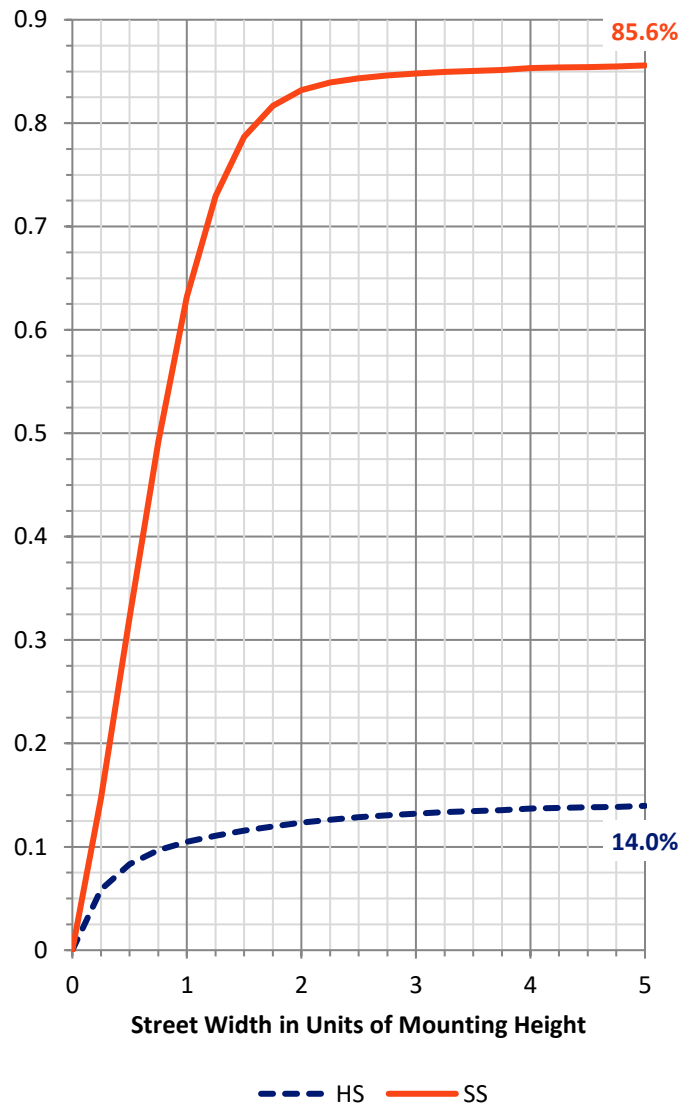
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4869.3	0.0	4869.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	29358.3	0.0	29358.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	34227.6	0.0	34227.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.7	1.2
10°-20°	1521.7	4.4
20°-30°	2829.1	8.3
30°-40°	4484.7	13.1
40°-50°	6202.8	18.1
50°-60°	7629.8	22.3
60°-70°	7099.9	20.7
70°-80°	3562.7	10.4
80°-90°	491.2	1.4
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°	34227.6	100.0
0°-180°	34227.6	100.0

Coefficient of Utilization



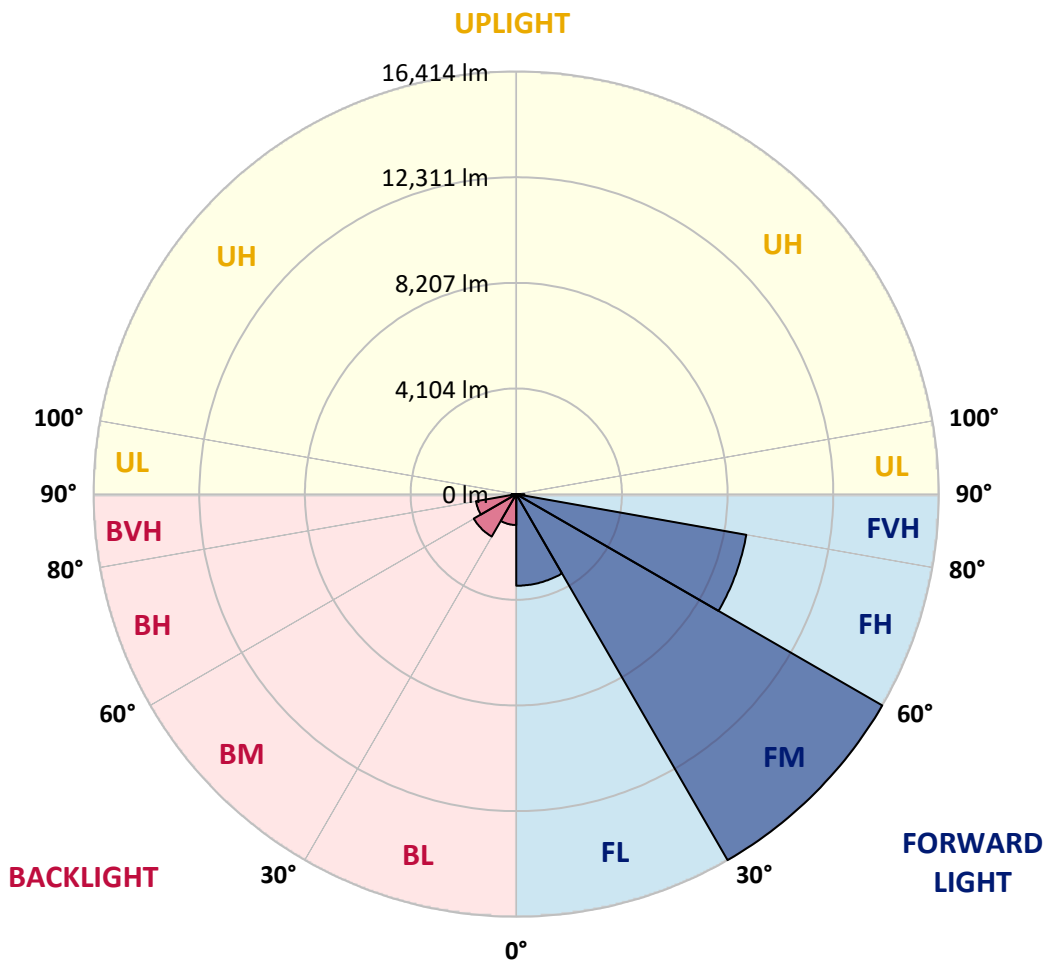
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3557.4	10.4			
FM (30°-60°)	16414.5	48.0			
FH (60°-80°)	9073.5	26.5			G4/12000
FVH (80°-90°)	313.0	0.9			G3/500
BL (0°-30°)	1199.1	3.5	B3/2500		
BM (30°-60°)	1902.8	5.6	B2/2500		
BH (60°-80°)	1589.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	178.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7
2.5°	4860.1	4801.5	4743.0	4618.2	4575.3	4458.3	4243.8	4005.8	3810.8	3783.5	3647.0
5°	6030.2	5944.4	5924.9	5854.7	5632.4	5406.1	5055.1	4672.8	4197.0	4232.1	3764.0
7.5°	6907.8	6857.1	6751.8	6685.5	6552.9	6252.5	5889.8	5382.7	4778.1	4661.1	4025.3
10°	7570.9	7500.7	7496.8	7438.3	7368.1	7060.0	6783.0	6100.4	5324.2	5164.3	4345.2
12.5°	7906.4	7894.7	8101.4	8101.4	8074.1	7945.4	7469.5	6845.4	5843.0	5788.4	4715.7
15°	8269.1	8171.6	8351.0	8487.5	8557.8	8624.1	8230.1	7570.9	6506.1	6400.8	5113.6
17.5°	8269.1	8261.3	8440.7	8667.0	9033.6	9119.4	8904.9	8237.9	7056.1	6978.0	5550.4
20°	8128.7	8241.8	8366.6	8670.9	9068.7	9415.9	9478.3	8920.5	7664.5	7602.1	6045.8
22.5°	8784.0	8674.8	8803.5	8920.5	9228.6	9755.2	9926.8	9521.2	8304.2	8066.3	6494.4
25°	9883.9	9809.8	9716.2	9544.6	9673.3	9903.4	10164.8	9965.8	8850.3	8585.1	6927.3
27.5°	10956.6	10960.5	10757.6	10383.2	10106.3	10153.1	10461.2	10355.9	9310.6	9193.5	7223.8
30°	12481.7	12388.1	12161.8	11654.8	11112.6	10667.9	10617.2	10718.6	9895.6	9669.4	7648.9
32.5°	13624.5	13644.0	13324.2	12594.8	11853.7	11490.9	11046.3	11089.2	10266.2	10098.5	7988.3
35°	14549.0	14525.6	14299.3	13694.7	12817.1	12380.3	11779.6	11533.9	11128.2	10863.0	8507.0
37.5°	15547.5	15356.4	14989.7	14307.1	13745.5	13140.9	12555.8	12001.9	11701.6	11381.7	8951.7
40°	15949.2	15949.2	15457.8	15145.7	14478.7	14022.4	13644.0	12618.2	12399.8	12337.4	9521.2
42.5°	15664.5	15840.0	15637.2	15282.3	15009.2	14431.9	14330.5	13257.9	13261.8	13137.0	10203.8
45°	15637.2	15395.4	15227.7	15317.4	15188.6	15157.4	15414.9	14143.3	14166.7	14151.1	11120.4
47.5°	14853.2	14744.0	14993.6	15141.8	15247.2	15730.8	16471.9	15200.3	15368.1	15251.1	12177.4
50°	14073.1	14053.6	14209.6	14747.9	15204.2	16000.0	17478.3	16830.8	17380.7	17372.9	14092.6
52.5°	11935.6	12142.3	12754.7	13893.7	15020.9	16366.6	18238.9	18913.6	19962.9	20247.6	15680.1
55°	9891.7	9782.5	10687.4	12341.3	14221.3	16510.9	19089.2	20165.7	21710.3	21917.1	17310.5
57.5°	7695.7	7898.6	8612.4	10199.9	12567.5	15797.1	19713.3	21402.2	23684.0	23843.9	19202.3
60°	5741.6	5768.9	6552.9	7832.3	10367.6	14186.2	19916.1	22669.9	25946.3	26402.7	21183.8
62.5°	3611.9	3775.7	4372.5	5632.4	7805.0	11931.7	19007.3	23438.3	28317.8	28438.7	23180.8
65°	1946.4	2051.7	2500.2	3292.0	5452.9	9025.8	16596.7	22978.0	29433.4	30151.1	24070.1
67°	1439.3	1458.8	1665.5	2102.4	3647.0	6794.7	13839.1	21312.5	29940.4	30463.1	24105.2
67.5°	1349.6	1376.9	1540.7	1887.9	3233.5	6256.4	13117.5	20719.6	29714.2	30275.9	23832.2
70°	1154.6	1162.4	1201.4	1298.9	1813.7	3764.0	8932.2	16979.0	27541.6	28079.9	21917.1
72.5°	1025.8	1033.6	1049.2	1068.7	1228.7	2176.5	5433.4	13066.8	23937.5	24795.6	18909.7
75°	901.0	928.3	936.1	920.5	1045.3	1415.9	2890.3	9603.1	19526.0	19943.4	14705.0
77.5°	764.5	776.2	791.8	807.4	932.2	1057.0	1388.6	6482.7	13402.2	13148.7	7953.2
80°	643.6	647.5	659.2	670.9	807.4	807.4	787.9	3502.7	5854.7	5597.3	2687.5
82.5°	460.3	487.6	514.9	546.1	670.9	542.2	514.9	1560.2	1852.7	1763.0	908.8
85°	179.4	218.4	339.3	374.5	425.2	292.5	343.2	674.8	772.3	764.5	339.3
87.5°	31.2	35.1	93.6	144.3	156.0	101.4	163.8	241.8	288.6	312.0	124.8
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°	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7
2.5°	3533.9	3413.0	3268.6	3124.3	3030.7	2882.5	2870.8	2781.1	2769.4	2738.2	2753.8
5°	3561.2	3416.9	3124.3	2894.2	2788.9	2703.1	2722.6	2683.6	2671.9	2652.4	2621.2
7.5°	3775.7	3491.0	3054.1	2855.2	2777.2	2738.2	2738.2	2691.4	2656.3	2679.7	2703.1
10°	3916.1	3526.1	3108.7	2909.8	2847.4	2761.6	2792.8	2734.3	2753.8	2707.0	2707.0
12.5°	4142.4	3725.0	3221.8	2991.7	2890.3	2812.3	2843.5	2777.2	2761.6	2765.5	2753.8
15°	4446.6	3857.6	3272.5	3038.5	2968.3	2870.8	2847.4	2788.9	2730.4	2710.9	2734.3
17.5°	4731.3	4021.4	3307.6	3065.8	2952.7	2843.5	2816.2	2742.1	2722.6	2664.1	2617.3
20°	5070.7	4216.5	3354.5	3089.2	2894.2	2785.0	2714.8	2640.7	2574.3	2539.2	2554.8
22.5°	5296.9	4317.9	3377.9	3042.4	2808.4	2707.0	2558.7	2508.0	2414.4	2375.4	2344.2
25°	5667.5	4442.7	3319.3	2913.7	2656.3	2492.4	2359.8	2289.6	2223.3	2172.6	2157.0
27.5°	5761.1	4536.3	3182.8	2695.3	2414.4	2242.8	2129.7	2043.9	2001.0	1923.0	1907.4
30°	6034.1	4442.7	2980.0	2430.0	2184.3	2008.8	1895.7	1833.2	1731.8	1712.3	1669.4
32.5°	6209.6	4470.0	2722.6	2172.6	1919.1	1763.0	1688.9	1626.5	1599.2	1505.6	1482.2
35°	6502.2	4376.4	2461.2	1934.7	1700.6	1579.7	1517.3	1497.8	1408.1	1365.2	1326.2
37.5°	6689.4	4321.8	2199.9	1665.5	1462.7	1412.0	1431.5	1349.6	1240.4	1158.5	1131.2
40°	7017.0	4302.3	1903.5	1443.2	1298.9	1287.2	1349.6	1193.6	994.6	924.4	885.4
42.5°	7489.0	4169.7	1673.3	1244.3	1170.2	1220.9	1232.6	994.6	881.5	823.0	795.7
45°	7941.5	4197.0	1447.1	1029.7	1018.0	1092.1	1064.8	842.5	776.2	733.3	756.7
47.5°	8811.3	4333.5	1224.8	858.1	916.6	986.8	826.9	752.8	690.4	659.2	663.1
50°	10157.0	4466.1	1029.7	784.0	865.9	893.2	709.9	682.6	678.7	616.3	612.4
52.5°	10964.4	4415.4	994.6	877.6	928.3	893.2	772.3	752.8	721.6	694.3	663.1
55°	12247.6	4563.6	1068.7	1025.8	1053.1	858.1	865.9	858.1	834.7	764.5	784.0
57.5°	13269.6	4661.1	1166.3	1146.8	1131.2	893.2	904.9	908.8	893.2	862.0	889.3
60°	14673.8	4856.2	1267.7	1271.6	1275.5	971.2	990.7	1014.1	1010.2	998.5	1006.3
62.5°	15535.8	4766.4	1380.8	1443.2	1423.7	1131.2	1127.3	1142.9	1142.9	1162.4	1174.1
65°	15407.1	4434.9	1439.3	1595.3	1493.9	1248.2	1248.2	1256.0	1259.9	1298.9	1302.8
67°	14634.8	3842.0	1408.1	1618.7	1493.9	1295.0	1295.0	1302.8	1275.5	1376.9	1345.7
67.5°	14275.9	3666.5	1380.8	1599.2	1482.2	1291.1	1291.1	1295.0	1271.6	1369.1	1337.9
70°	12415.4	2722.6	1189.7	1415.9	1373.0	1256.0	1256.0	1232.6	1213.1	1341.8	1314.5
72.5°	10597.7	1977.6	955.6	1205.3	1240.4	1209.2	1217.0	1158.5	1103.8	1193.6	1170.2
75°	8117.0	1454.9	745.0	928.3	1049.2	1131.2	1181.9	1033.6	963.4	986.8	943.9
77.5°	4528.5	947.8	589.0	686.5	799.6	1053.1	1135.1	932.2	787.9	760.6	760.6
80°	1536.8	553.9	433.0	511.0	550.0	932.2	1060.9	756.7	620.2	592.9	573.4
82.5°	581.2	339.3	296.4	351.0	351.0	737.2	865.9	581.2	468.1	604.6	616.3
85°	265.2	202.8	195.0	202.8	202.8	452.5	612.4	378.4	421.3	362.7	319.8
87.5°	105.3	97.5	89.7	85.8	70.2	78.0	210.6	101.4	191.1	50.7	46.8
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)