

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: P477009

Luminaire Tested: **IFLD-M-SA4D-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477009
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

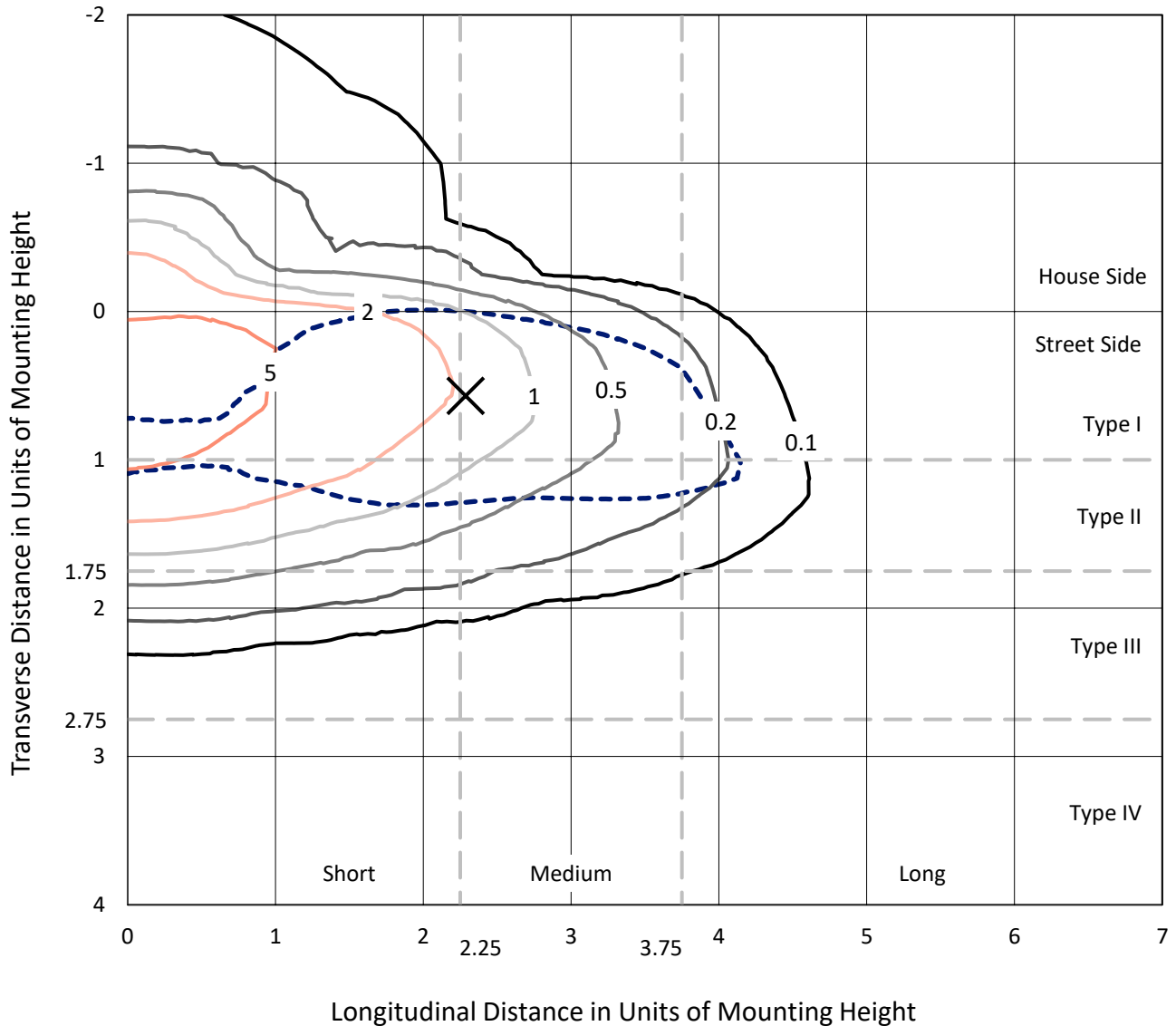
Lumens per Lamp: N/A
Luminaire Lumens: 31459.8 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

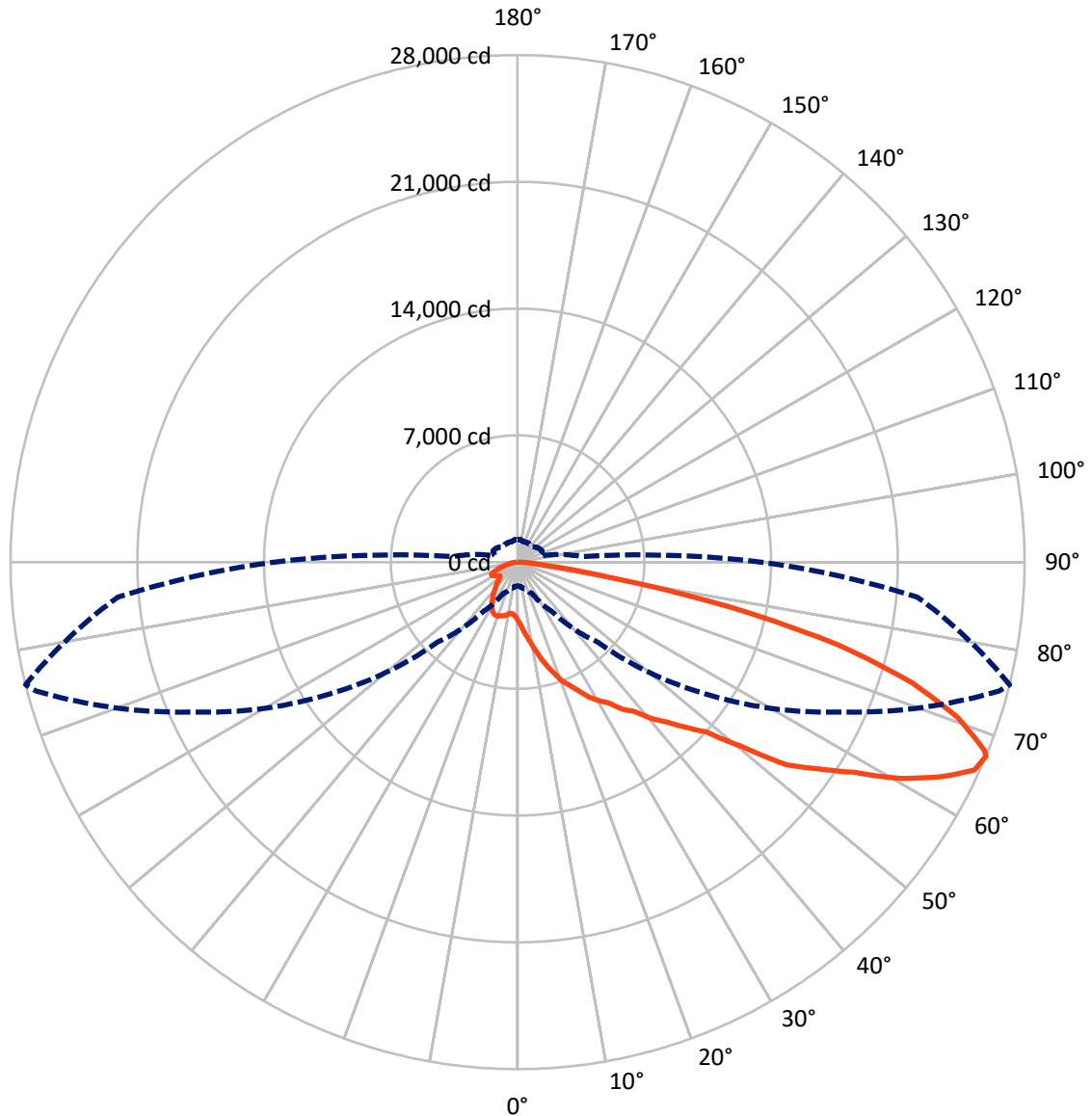
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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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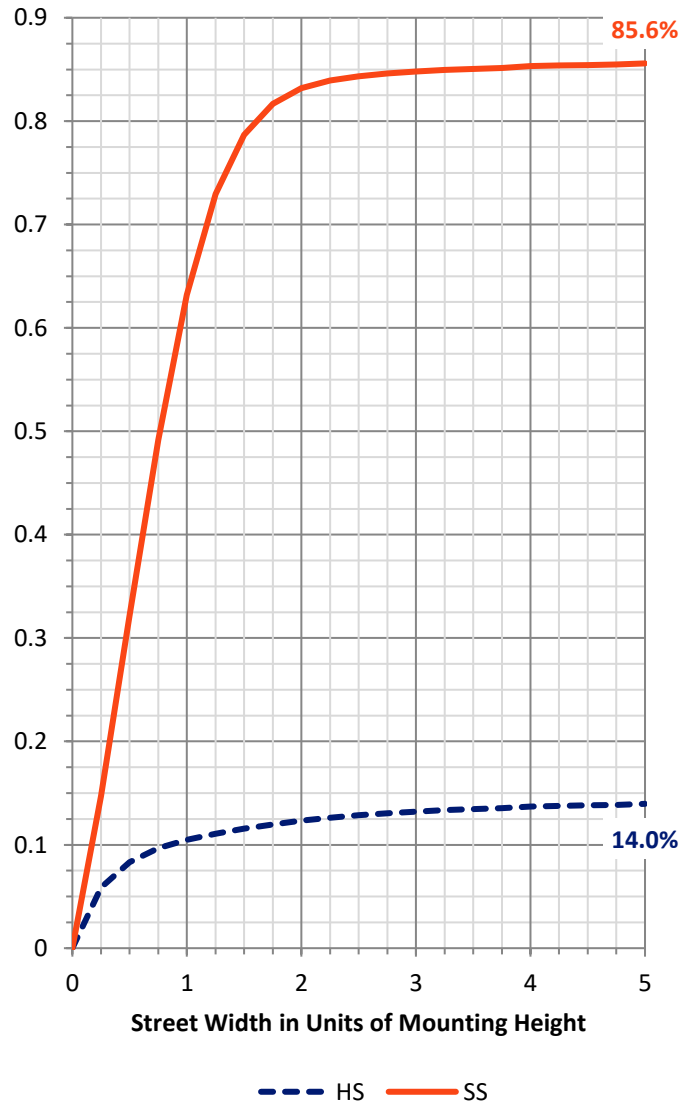
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4475.5	0.0	4475.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26984.2	0.0	26984.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	31459.8	0.0	31459.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.9	1.2
10°-20°	1398.7	4.4
20°-30°	2600.3	8.3
30°-40°	4122.1	13.1
40°-50°	5701.2	18.1
50°-60°	7012.8	22.3
60°-70°	6525.7	20.7
70°-80°	3274.6	10.4
80°-90°	451.5	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°	31459.8	100.0
0°-180°	31459.8	100.0

Coefficient of Utilization



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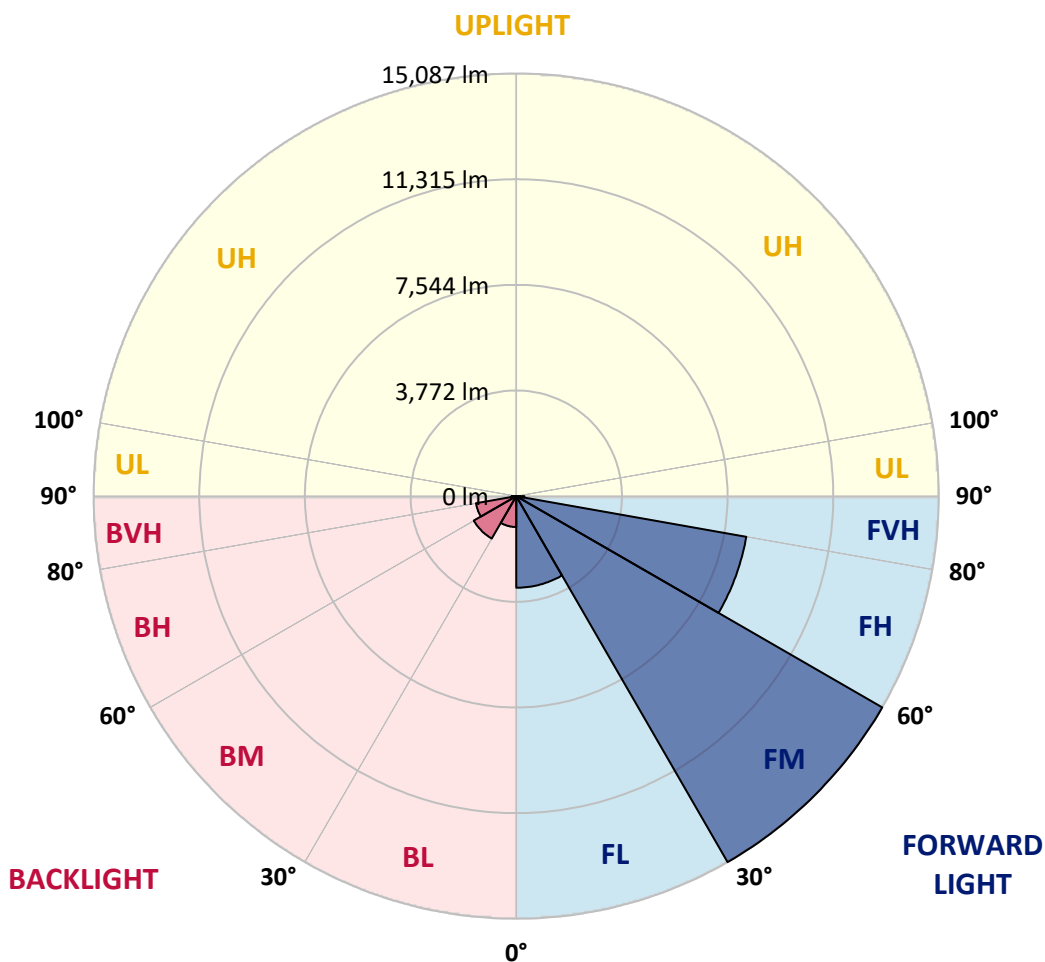
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3269.7	10.4			
FM (30°-60°)	15087.1	48.0			
FH (60°-80°)	8339.7	26.5			G4/12000
FVH (80°-90°)	287.7	0.9			G3/500
BL (0°-30°)	1102.1	3.5	B3/2500		
BM (30°-60°)	1748.9	5.6	B2/2500		
BH (60°-80°)	1460.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	163.8	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°	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4
2.5°	4467.0	4413.3	4359.5	4244.8	4205.3	4097.8	3900.6	3681.9	3502.6	3477.6	3352.1
5°	5542.6	5463.7	5445.8	5381.2	5176.9	4969.0	4646.3	4295.0	3857.6	3889.8	3459.6
7.5°	6349.2	6302.6	6205.8	6144.9	6023.0	5746.9	5413.5	4947.4	4391.8	4284.2	3699.8
10°	6958.7	6894.2	6890.6	6836.8	6772.3	6489.0	6234.5	5607.1	4893.7	4746.7	3993.8
12.5°	7267.0	7256.3	7446.3	7446.3	7421.2	7302.9	6865.5	6291.9	5370.5	5320.3	4334.4
15°	7600.4	7510.8	7675.7	7801.2	7865.7	7926.7	7564.6	6958.7	5980.0	5883.2	4700.1
17.5°	7600.4	7593.3	7758.2	7966.1	8303.1	8382.0	8184.8	7571.7	6485.5	6413.8	5101.6
20°	7471.4	7575.3	7690.1	7969.7	8335.4	8654.4	8711.8	8199.1	7044.7	6987.4	5556.9
22.5°	8073.7	7973.3	8091.6	8199.1	8482.4	8966.3	9124.1	8751.2	7632.7	7414.0	5969.2
25°	9084.7	9016.5	8930.5	8772.8	8891.1	9102.6	9342.8	9159.9	8134.6	7890.8	6367.1
27.5°	10070.6	10074.1	9887.7	9543.6	9289.0	9332.0	9615.3	9518.5	8557.6	8450.1	6639.6
30°	11472.3	11386.3	11178.4	10712.3	10214.0	9805.3	9758.7	9851.9	9095.4	8887.5	7030.4
32.5°	12522.8	12540.7	12246.7	11576.3	10895.1	10561.7	10153.0	10192.5	9436.0	9281.8	7342.3
35°	13372.4	13350.9	13143.0	12587.3	11780.7	11379.1	10827.0	10601.2	10228.3	9984.5	7819.1
37.5°	14290.2	14114.6	13777.6	13150.2	12633.9	12078.2	11540.5	11031.4	10755.3	10461.3	8227.8
40°	14659.5	14659.5	14207.8	13921.0	13307.9	12888.5	12540.7	11597.8	11397.0	11339.7	8751.2
42.5°	14397.8	14559.1	14372.7	14046.4	13795.5	13264.9	13171.7	12185.8	12189.4	12074.6	9378.6
45°	14372.7	14150.4	13996.3	14078.7	13960.4	13931.7	14168.3	12999.6	13021.1	13006.8	10221.1
47.5°	13652.1	13551.7	13781.1	13917.4	14014.2	14458.7	15139.9	13971.2	14125.3	14017.8	11192.7
50°	12935.1	12917.1	13060.5	13555.3	13974.7	14706.1	16064.9	15469.7	15975.2	15968.1	12953.0
52.5°	10970.4	11160.4	11723.3	12770.1	13806.2	15043.1	16764.0	17384.2	18348.6	18610.3	14412.1
55°	9091.8	8991.4	9823.2	11343.3	13071.3	15175.8	17545.5	18535.0	19954.7	20144.7	15910.7
57.5°	7073.4	7259.8	7915.9	9375.1	11551.2	14519.7	18119.1	19671.5	21768.8	21915.7	17649.5
60°	5277.3	5302.4	6023.0	7198.9	9529.2	13039.0	18305.5	20836.6	23848.1	24267.6	19470.7
62.5°	3319.8	3470.4	4018.9	5176.9	7173.8	10966.8	17470.2	21542.9	26027.9	26139.0	21306.3
65°	1789.0	1885.8	2298.1	3025.8	5012.0	8295.9	15254.6	21119.9	27053.2	27712.9	22123.7
67°	1322.9	1340.8	1530.8	1932.4	3352.1	6245.3	12720.0	19589.0	27519.3	27999.7	22156.0
67.5°	1240.4	1265.5	1416.1	1735.2	2972.1	5750.5	12056.7	19044.1	27311.3	27827.6	21905.0
70°	1061.2	1068.4	1104.2	1193.8	1667.1	3459.6	8209.9	15606.0	25314.4	25809.2	20144.7
72.5°	942.9	950.1	964.4	982.3	1129.3	2000.5	4994.1	12010.1	22001.8	22790.5	17380.6
75°	828.2	853.3	860.4	846.1	960.8	1301.4	2656.6	8826.5	17947.0	18330.6	13515.8
77.5°	702.7	713.4	727.8	742.1	856.8	971.6	1276.3	5958.4	12318.4	12085.4	7310.0
80°	591.5	595.1	605.9	616.6	742.1	742.1	724.2	3219.4	5381.2	5144.6	2470.1
82.5°	423.0	448.1	473.2	501.9	616.6	498.3	473.2	1434.0	1702.9	1620.5	835.3
85°	164.9	200.8	311.9	344.2	390.8	268.9	315.5	620.2	709.9	702.7	311.9
87.5°	28.7	32.3	86.0	132.6	143.4	93.2	150.6	222.3	265.3	286.8	114.7
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°	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4	3219.4
2.5°	3248.1	3137.0	3004.3	2871.7	2785.6	2649.4	2638.6	2556.2	2545.4	2516.7	2531.1
5°	3273.2	3140.6	2871.7	2660.1	2563.4	2484.5	2502.4	2466.6	2455.8	2437.9	2409.2
7.5°	3470.4	3208.7	2807.1	2624.3	2552.6	2516.7	2516.7	2473.7	2441.5	2463.0	2484.5
10°	3599.4	3240.9	2857.3	2674.5	2617.1	2538.3	2566.9	2513.2	2531.1	2488.1	2488.1
12.5°	3807.4	3423.8	2961.3	2749.8	2656.6	2584.9	2613.5	2552.6	2538.3	2541.8	2531.1
15°	4087.0	3545.7	3007.9	2792.8	2728.3	2638.6	2617.1	2563.4	2509.6	2491.6	2513.2
17.5°	4348.7	3696.2	3040.2	2817.9	2713.9	2613.5	2588.4	2520.3	2502.4	2448.6	2405.6
20°	4660.6	3875.5	3083.2	2839.4	2660.1	2559.8	2495.2	2427.1	2366.2	2333.9	2348.2
22.5°	4868.6	3968.7	3104.7	2796.4	2581.3	2488.1	2351.8	2305.2	2219.2	2183.3	2154.6
25°	5209.2	4083.4	3050.9	2678.1	2441.5	2290.9	2169.0	2104.5	2043.5	1996.9	1982.6
27.5°	5295.2	4169.5	2925.4	2477.3	2219.2	2061.4	1957.5	1878.6	1839.2	1767.5	1753.1
30°	5546.2	4083.4	2739.0	2233.5	2007.7	1846.3	1742.4	1685.0	1591.8	1573.9	1534.4
32.5°	5707.5	4108.5	2502.4	1996.9	1763.9	1620.5	1552.4	1495.0	1469.9	1383.9	1362.3
35°	5976.4	4022.5	2262.2	1778.2	1563.1	1452.0	1394.6	1376.7	1294.2	1254.8	1218.9
37.5°	6148.5	3972.3	2022.0	1530.8	1344.4	1297.8	1315.7	1240.4	1140.1	1064.8	1039.7
40°	6449.6	3954.4	1749.5	1326.5	1193.8	1183.1	1240.4	1097.0	914.2	849.7	813.8
42.5°	6883.4	3832.5	1538.0	1143.6	1075.5	1122.1	1132.9	914.2	810.2	756.5	731.4
45°	7299.3	3857.6	1330.1	946.5	935.7	1003.8	978.7	774.4	713.4	674.0	695.5
47.5°	8098.8	3983.1	1125.7	788.7	842.5	907.0	760.0	691.9	634.6	605.9	609.5
50°	9335.6	4104.9	946.5	720.6	795.9	821.0	652.5	627.4	623.8	566.4	562.9
52.5°	10077.7	4058.3	914.2	806.6	853.3	821.0	709.9	691.9	663.2	638.1	609.5
55°	11257.2	4194.6	982.3	942.9	968.0	788.7	795.9	788.7	767.2	702.7	720.6
57.5°	12196.5	4284.2	1071.9	1054.0	1039.7	821.0	831.7	835.3	821.0	792.3	817.4
60°	13487.2	4463.5	1165.2	1168.7	1172.3	892.7	910.6	932.1	928.5	917.8	925.0
62.5°	14279.5	4381.0	1269.1	1326.5	1308.6	1039.7	1036.1	1050.4	1050.4	1068.4	1079.1
65°	14161.2	4076.3	1322.9	1466.3	1373.1	1147.2	1147.2	1154.4	1158.0	1193.8	1197.4
67°	13451.3	3531.3	1294.2	1487.8	1373.1	1190.3	1190.3	1197.4	1172.3	1265.5	1236.9
67.5°	13121.5	3370.0	1269.1	1469.9	1362.3	1186.7	1186.7	1190.3	1168.7	1258.4	1229.7
70°	11411.4	2502.4	1093.5	1301.4	1262.0	1154.4	1154.4	1132.9	1115.0	1233.3	1208.2
72.5°	9740.7	1817.6	878.4	1107.8	1140.1	1111.4	1118.6	1064.8	1014.6	1097.0	1075.5
75°	7460.6	1337.2	684.8	853.3	964.4	1039.7	1086.3	950.1	885.5	907.0	867.6
77.5°	4162.3	871.2	541.4	631.0	734.9	968.0	1043.3	856.8	724.2	699.1	699.1
80°	1412.5	509.1	397.9	469.6	505.5	856.8	975.1	695.5	570.0	544.9	527.0
82.5°	534.2	311.9	272.5	322.7	322.7	677.6	795.9	534.2	430.2	555.7	566.4
85°	243.8	186.4	179.3	186.4	186.4	415.9	562.9	347.8	387.2	333.4	294.0
87.5°	96.8	89.6	82.5	78.9	64.5	71.7	193.6	93.2	175.7	46.6	43.0
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)