

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: P478485

Luminaire Tested: **IFLD-S-SA6C-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478485
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

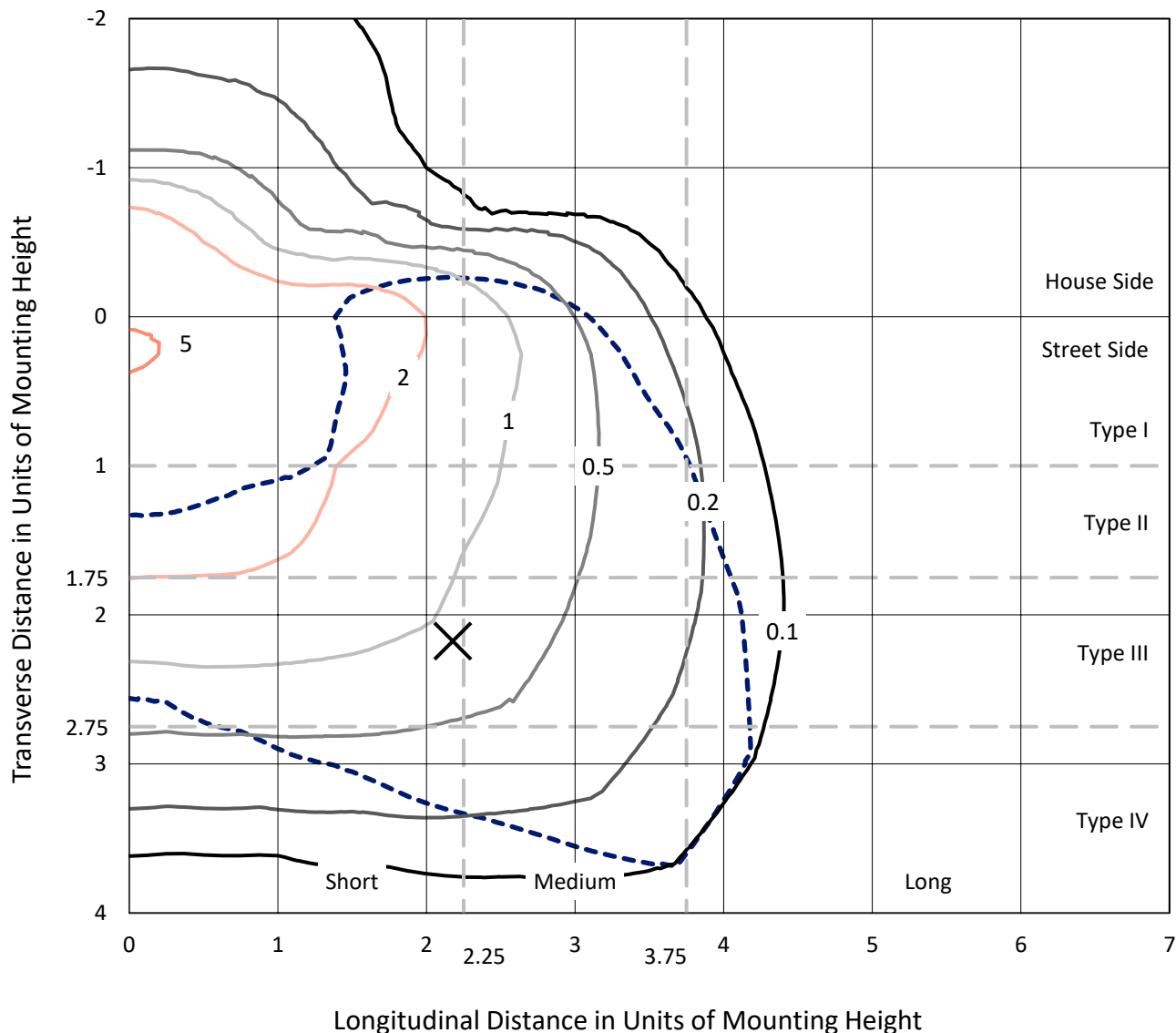
Lumens per Lamp: N/A
Luminaire Lumens: 38244.9 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5
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

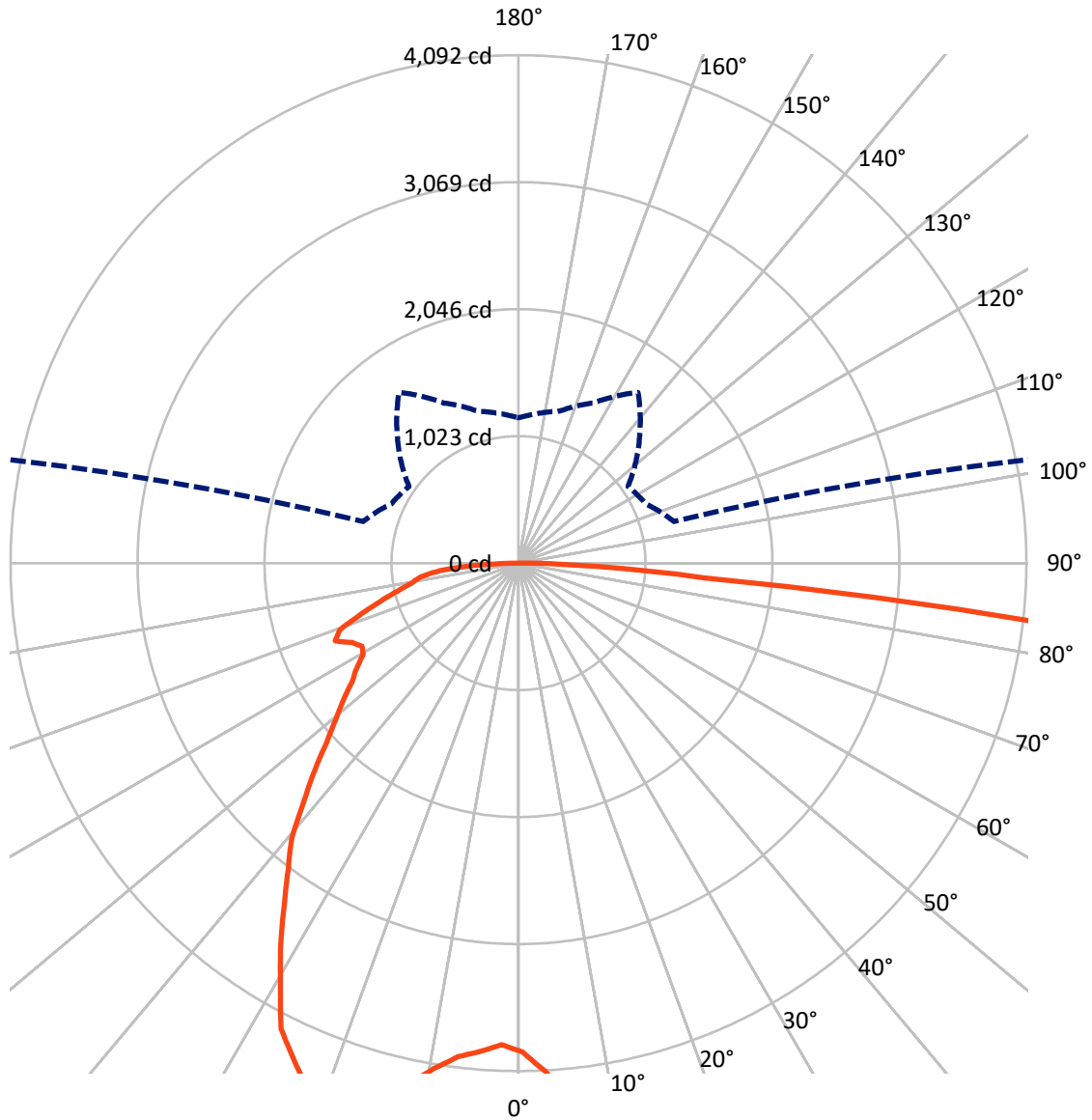
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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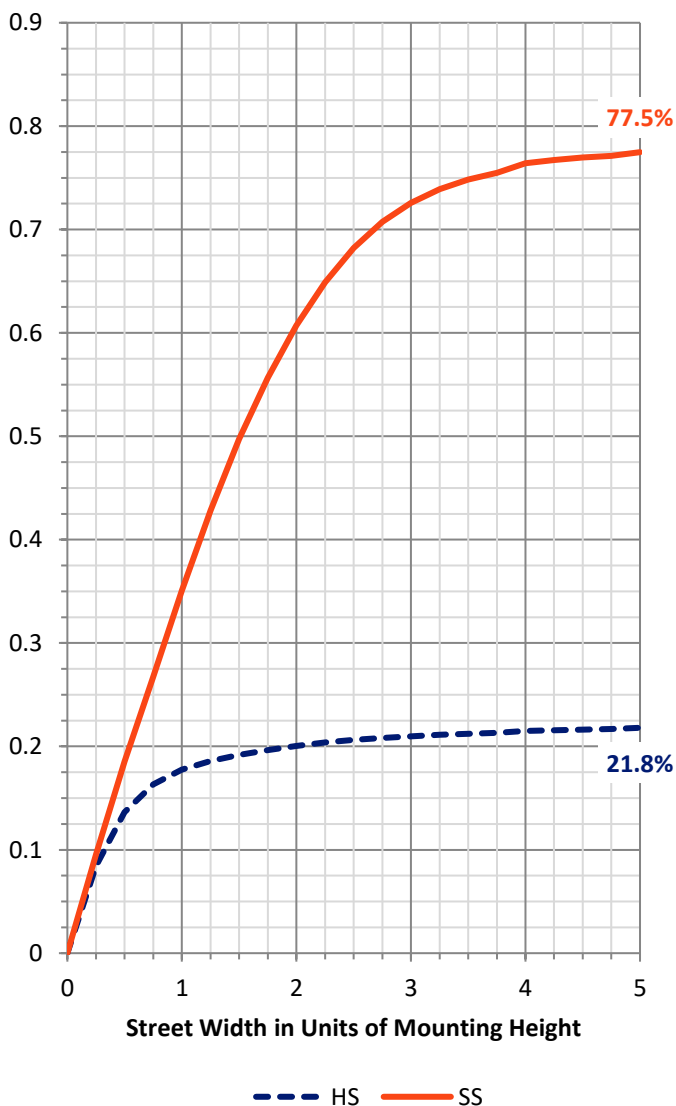
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8513.5	0.0	8513.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	29731.4	0.0	29731.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	38244.9	0.0	38244.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.0	1.1
10°-20°	1340.9	3.5
20°-30°	2264.4	5.9
30°-40°	3133.5	8.2
40°-50°	4482.2	11.7
50°-60°	7229.3	18.9
60°-70°	10662.1	27.9
70°-80°	7742.6	20.2
80°-90°	987.0	2.6
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°	38244.9	100.0
0°-180°	38244.9	100.0

Coefficient of Utilization



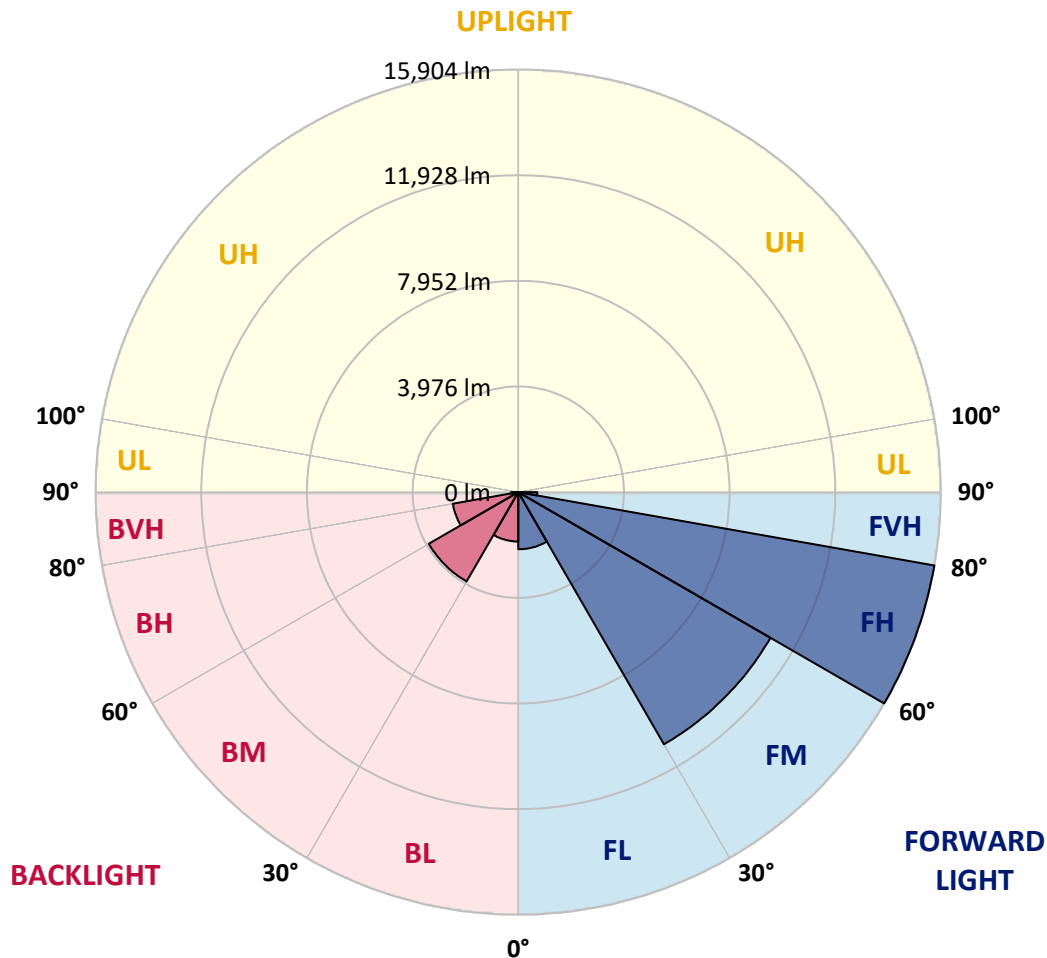
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2149.4	5.6			
FM (30°-60°)	10959.7	28.7			
FH (60°-80°)	15904.0	41.6			G5
FVH (80°-90°)	718.4	1.9			G4/750
BL (0°-30°)	1858.9	4.9	B3/2500		
BM (30°-60°)	3885.3	10.2	B3/5000		
BH (60°-80°)	2500.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	268.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5
2.5°	4148.9	4173.6	4148.9	4144.7	4103.5	4074.6	4099.4	4062.3	4021.0	4004.5	3967.4
5°	4528.3	4532.4	4487.0	4491.2	4404.6	4313.8	4330.3	4219.0	4099.4	4054.0	3979.8
7.5°	4916.0	4870.6	4804.6	4784.0	4647.9	4548.9	4536.5	4437.6	4252.0	4148.9	4045.8
10°	5167.5	5184.0	5076.8	4986.1	4870.6	4751.0	4746.9	4561.3	4454.1	4301.5	4169.5
12.5°	5390.2	5394.4	5303.6	5159.3	5014.9	4866.5	4887.1	4804.6	4623.1	4478.8	4346.8
15°	5563.4	5538.7	5439.7	5307.7	5155.2	5039.7	5027.3	4957.2	4804.6	4685.0	4466.4
17.5°	5612.9	5600.6	5501.6	5361.4	5212.9	5126.3	5159.3	5043.8	4981.9	4874.7	4664.4
20°	5518.1	5489.2	5472.7	5316.0	5208.8	5200.5	5171.7	5196.4	5093.3	4994.3	4841.7
22.5°	5344.9	5332.5	5324.2	5200.5	5151.0	5188.1	5237.6	5274.8	5258.3	5163.4	4990.2
25°	5167.5	5225.3	5171.7	5113.9	5184.0	5278.9	5266.5	5386.1	5386.1	5357.2	5212.9
27.5°	5291.3	5254.1	5212.9	5184.0	5208.8	5357.2	5349.0	5493.3	5546.9	5493.3	5328.4
30°	5600.6	5563.4	5443.8	5316.0	5283.0	5443.8	5485.1	5612.9	5637.7	5505.7	5365.5
32.5°	6182.1	6161.4	5971.7	5596.4	5394.4	5485.1	5505.7	5650.1	5629.4	5546.9	5489.2
35°	7044.0	6973.9	6710.0	6074.8	5629.4	5538.7	5485.1	5600.6	5678.9	5637.7	5584.1
37.5°	7988.4	7910.1	7584.3	6780.1	6054.2	5683.0	5641.8	5736.7	5827.4	5806.8	5695.4
40°	8891.6	8891.6	8598.8	7662.6	6685.2	6033.6	6041.8	5934.6	6017.1	5980.0	6000.6
42.5°	9782.4	9749.4	9629.8	8697.8	7361.6	6619.2	6487.2	6219.2	6367.6	6355.3	6384.1
45°	10685.6	10660.9	10627.9	9662.8	8330.7	7411.1	7340.9	6858.4	6994.5	6936.8	7060.5
47.5°	11407.3	11436.2	11436.2	10739.2	9365.9	8466.8	8363.7	7600.8	7860.6	7889.4	7918.3
50°	12021.8	12034.2	12021.8	11766.1	10520.6	9675.2	9464.9	8689.5	8949.3	9176.2	9440.1
52.5°	12871.4	12887.9	12830.2	12731.2	12087.8	10945.4	10710.4	9848.4	10380.4	10619.6	11093.9
55°	13918.9	13795.2	13688.0	13762.2	13593.1	12343.5	12100.2	11044.4	11844.5	12162.0	13110.6
57.5°	14112.8	14220.0	14492.2	15081.9	15325.2	13704.5	13564.2	12512.6	13498.3	13774.6	15358.2
60°	14797.4	14620.0	15288.1	16566.6	16838.8	15477.8	15333.5	14121.0	15143.8	15432.5	17432.7
62.5°	15246.9	15238.6	16228.4	17746.1	18364.7	17317.2	17024.4	16211.9	16921.3	17201.7	19692.7
65°	15114.9	15234.5	16991.4	18439.0	19639.1	19408.1	19239.0	18010.1	18946.2	18921.5	21165.0
67.5°	13910.7	14248.8	16508.9	18938.0	21536.2	21956.8	21903.2	20538.1	20591.8	20068.0	21820.7
70°	12240.4	12124.9	14467.4	18418.3	22484.7	24979.8	24967.4	22418.7	22072.3	20319.6	19940.1
72°	9403.0	9275.2	11201.1	15816.0	21985.7	26188.2	26559.4	23722.0	22055.8	19276.2	16471.8
72.5°	8536.9	8425.6	10343.3	14888.1	21433.1	26501.6	26328.4	23771.5	21882.6	18785.4	15387.1
75°	3930.3	3802.4	5167.5	9114.3	16719.2	23482.8	24072.5	22245.5	19111.2	14954.1	9217.4
77.5°	1171.3	1134.1	1662.0	3678.7	9716.4	17300.7	17527.5	16785.2	13341.5	8190.5	3418.9
80°	651.6	655.7	857.8	1377.5	4272.6	10001.0	10817.6	10368.0	6545.0	2705.4	1138.3
82.5°	362.9	383.5	536.1	816.6	1963.1	4590.2	4940.7	4763.4	2367.2	1270.2	622.7
85°	189.7	198.0	280.4	437.2	1113.5	1451.7	1492.9	1600.2	1229.0	866.1	334.1
87.5°	74.2	74.2	103.1	181.5	412.4	449.5	404.2	490.8	705.2	560.9	165.0
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°	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5	3938.5
2.5°	4000.4	3967.4	3963.3	3909.7	3926.2	3880.8	3884.9	3876.7	3880.8	3872.6	3851.9
5°	3979.8	3955.0	3884.9	3930.3	3889.0	3946.8	3992.2	3975.7	3988.0	3983.9	3988.0
7.5°	4008.6	3975.7	3967.4	3942.7	3979.8	4004.5	4041.6	4144.7	4136.5	4148.9	4173.6
10°	4095.3	4058.1	4033.4	4070.5	4049.9	4128.2	4169.5	4223.1	4318.0	4322.1	4272.6
12.5°	4264.3	4239.6	4190.1	4198.4	4268.5	4293.2	4318.0	4351.0	4412.8	4400.4	4445.8
15°	4458.2	4404.6	4375.7	4367.4	4383.9	4412.8	4408.7	4441.7	4474.7	4503.5	4491.2
17.5°	4598.4	4528.3	4536.5	4577.8	4573.7	4565.4	4511.8	4495.3	4511.8	4528.3	4520.0
20°	4742.7	4751.0	4689.1	4652.0	4635.5	4553.0	4511.8	4462.3	4412.8	4437.6	4474.7
22.5°	4924.2	4887.1	4796.4	4685.0	4602.5	4553.0	4425.2	4338.6	4338.6	4363.3	4351.0
25°	5130.4	5052.1	4895.3	4693.3	4590.2	4379.8	4289.1	4276.7	4243.7	4280.8	4297.3
27.5°	5291.3	5221.1	5006.7	4664.4	4379.8	4210.7	4157.1	4140.6	4194.2	4198.4	4264.3
30°	5357.2	5336.6	5023.2	4590.2	4165.4	3893.2	3860.2	3934.4	3992.2	4078.8	4082.9
32.5°	5443.8	5452.1	5047.9	4416.9	3884.9	3612.7	3563.2	3654.0	3818.9	3889.0	3942.7
35°	5588.2	5629.4	5027.3	4202.5	3588.0	3328.2	3319.9	3344.7	3505.5	3629.2	3699.3
37.5°	5839.8	5831.5	5023.2	3946.8	3352.9	3080.7	3014.7	3023.0	3130.2	3233.3	3220.9
40°	6177.9	6144.9	5010.8	3612.7	3047.7	2870.4	2759.0	2717.8	2709.5	2680.7	2688.9
42.5°	6639.8	6573.9	5006.7	3274.6	2771.4	2581.7	2503.3	2396.1	2317.8	2169.3	2177.5
45°	7283.2	7167.7	4899.5	2957.0	2499.2	2342.5	2222.9	2144.5	1975.5	1789.9	1789.9
47.5°	8277.1	7901.8	4903.6	2606.4	2235.3	2107.4	2024.9	1888.8	1707.4	1558.9	1542.4
50°	9741.2	8883.4	4763.4	2330.1	2020.8	1934.2	1847.6	1690.9	1517.7	1414.6	1426.9
52.5°	11630.0	10347.4	4759.2	2082.7	1851.7	1789.9	1695.0	1554.8	1426.9	1361.0	1336.2
55°	13881.8	12285.8	4907.7	1880.6	1678.5	1645.5	1604.3	1488.8	1365.1	1307.3	1303.2
57.5°	16187.2	14178.7	5146.9	1736.3	1530.1	1554.8	1525.9	1435.2	1336.2	1270.2	1262.0
60°	18236.9	15679.9	4664.4	1563.0	1398.1	1451.7	1492.9	1414.6	1361.0	1356.8	1328.0
62.5°	19783.4	16323.3	3546.7	1431.1	1328.0	1426.9	1538.3	1587.8	1563.0	1596.0	1600.2
65°	20348.4	15935.6	2441.5	1361.0	1274.4	1484.7	1732.1	1715.6	1571.3	1509.4	1542.4
67.5°	19556.6	14364.3	1810.5	1278.5	1237.2	1604.3	1843.5	1637.3	1418.7	1410.5	1385.7
70°	16818.2	12174.4	1476.4	1191.9	1175.4	1538.3	1794.0	1517.7	1336.2	1282.6	1257.9
72°	13399.3	9481.4	1295.0	1130.0	1076.4	1373.3	1678.5	1422.8	1266.1	1200.1	1171.3
72.5°	12232.2	8788.5	1270.2	1101.1	1055.8	1336.2	1620.8	1394.0	1249.6	1191.9	1146.5
75°	6710.0	4499.4	1117.6	1010.4	890.8	1154.8	1501.2	1307.3	1179.5	1097.0	1088.8
77.5°	2495.1	1744.5	965.0	894.9	771.2	998.0	1365.1	1241.4	1072.3	969.2	948.5
80°	956.8	919.7	787.7	754.7	647.5	874.3	1257.9	1113.5	911.4	808.3	775.3
82.5°	581.5	536.1	598.0	589.7	494.9	796.0	1183.6	1043.4	808.3	655.7	635.1
85°	317.6	317.6	416.5	400.0	346.4	635.1	894.9	692.9	511.4	420.7	428.9
87.5°	140.2	165.0	222.7	210.3	189.7	358.8	437.2	367.0	255.7	173.2	185.6
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)