

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: P478211

Luminaire Tested: **IFLD-S-SA6B-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478211
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

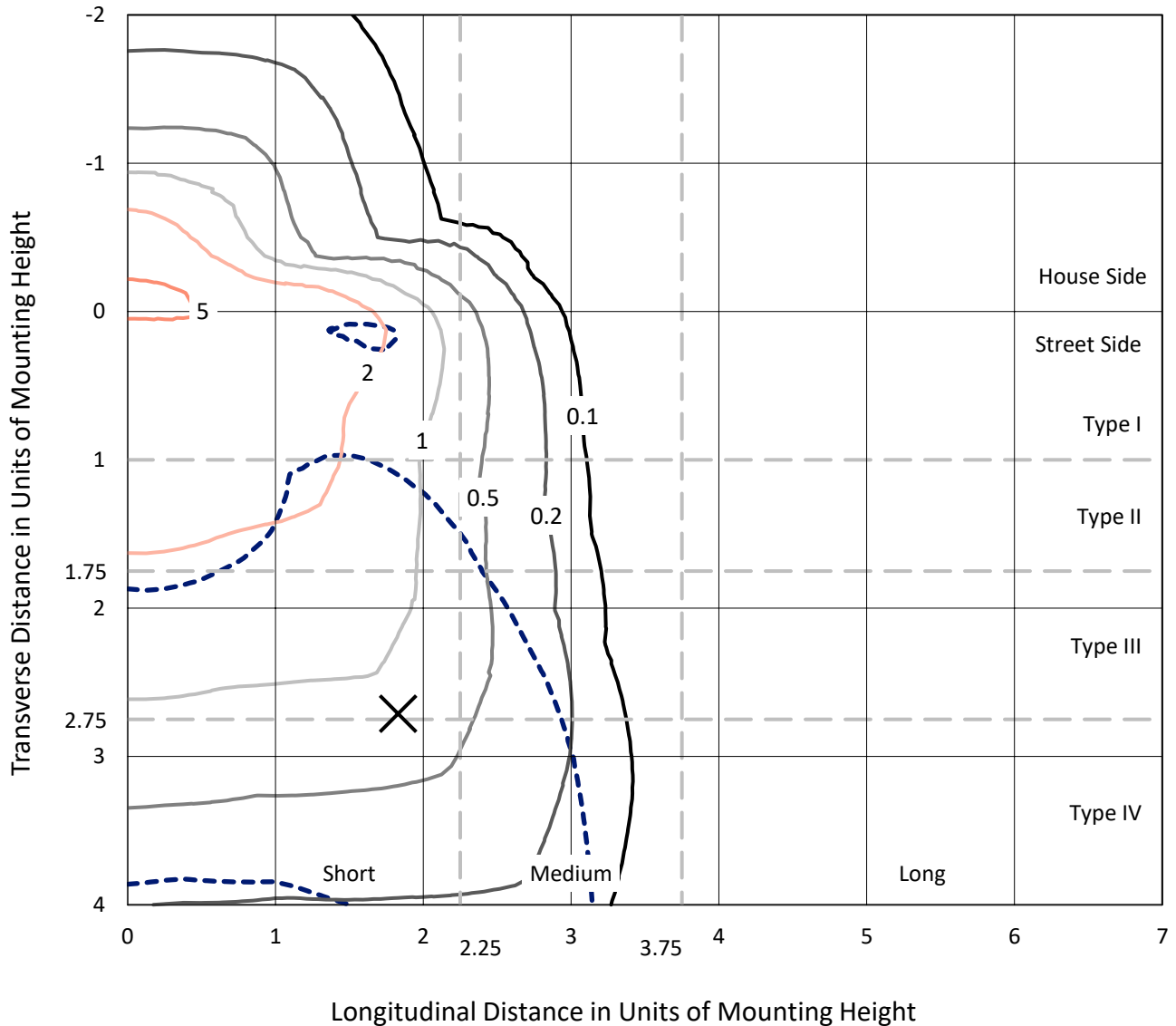
Lumens per Lamp: N/A
Luminaire Lumens: 34980.3 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 244.9
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

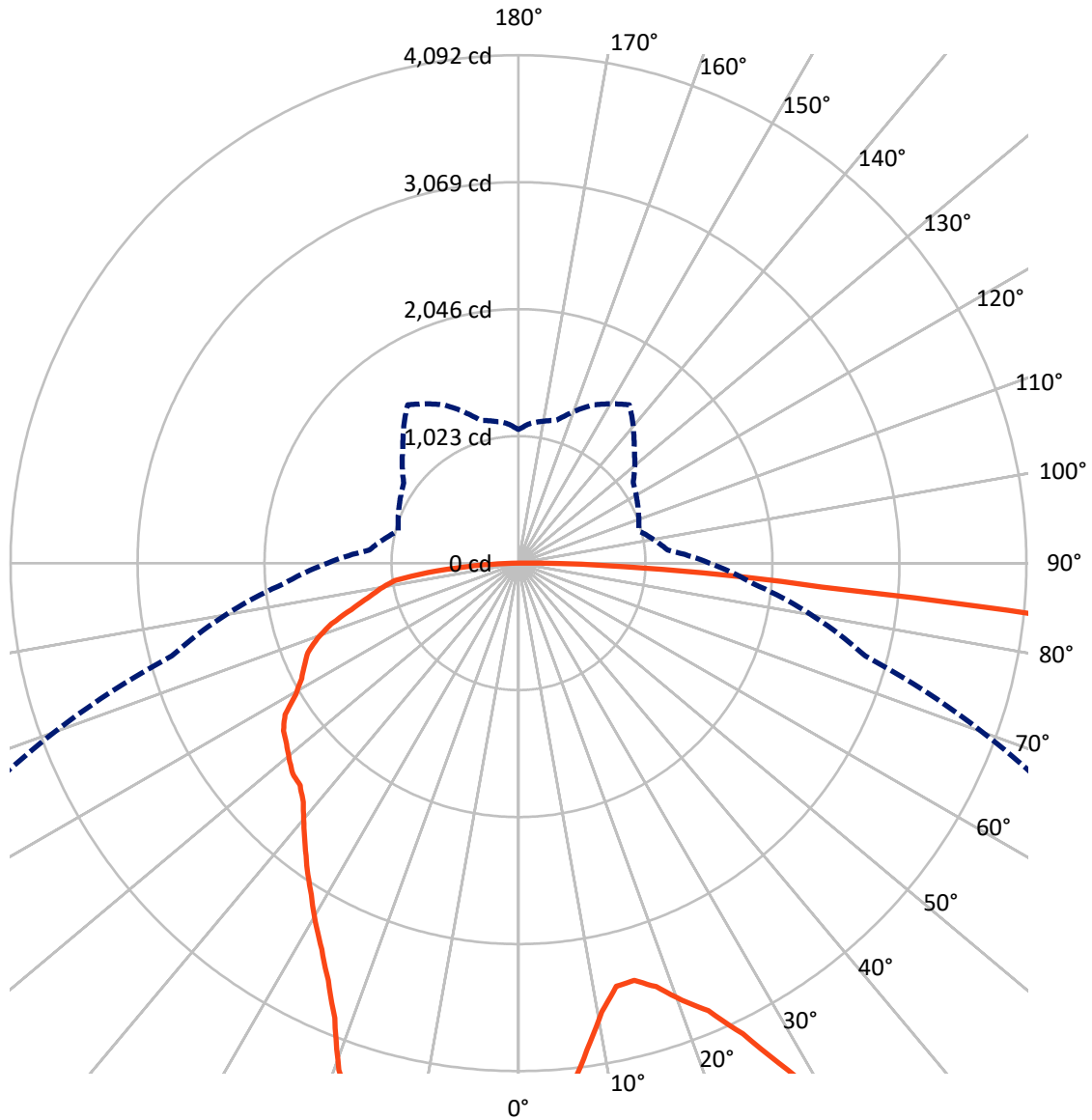
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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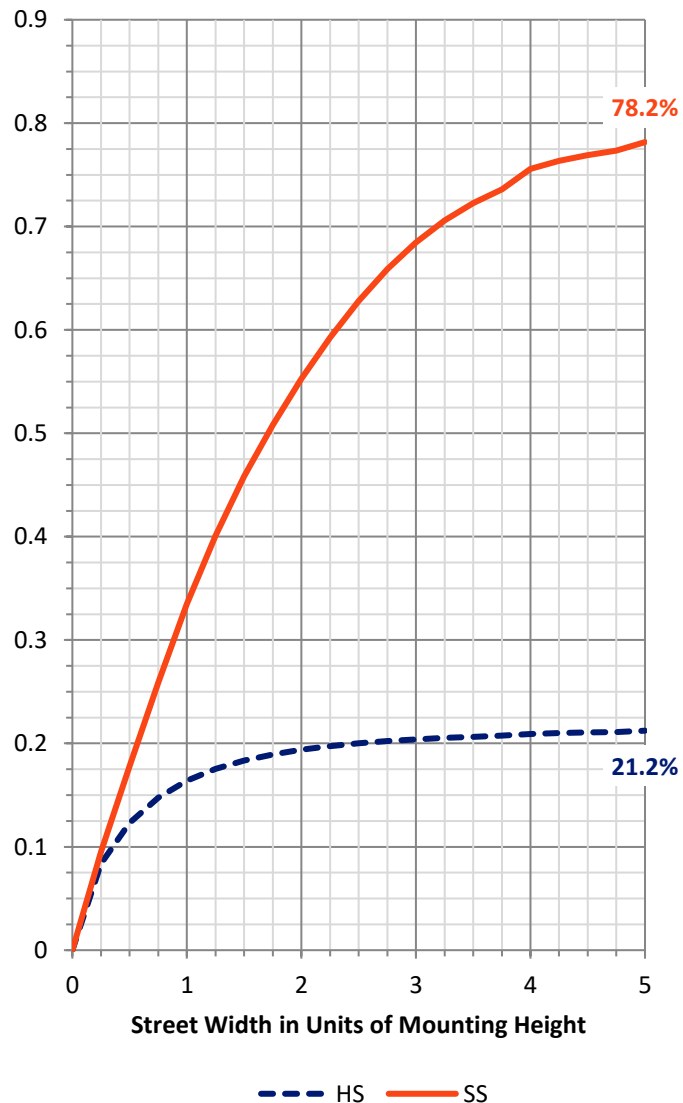
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7556.2	0.0	7556.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27424.1	0.0	27424.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	34980.3	0.0	34980.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.9	1.3
10°-20°	1295.3	3.7
20°-30°	2132.0	6.1
30°-40°	3188.3	9.1
40°-50°	4726.5	13.5
50°-60°	6811.4	19.5
60°-70°	8692.3	24.8
70°-80°	6764.1	19.3
80°-90°	907.4	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°	34980.3	100.0
0°-180°	34980.3	100.0

Coefficient of Utilization



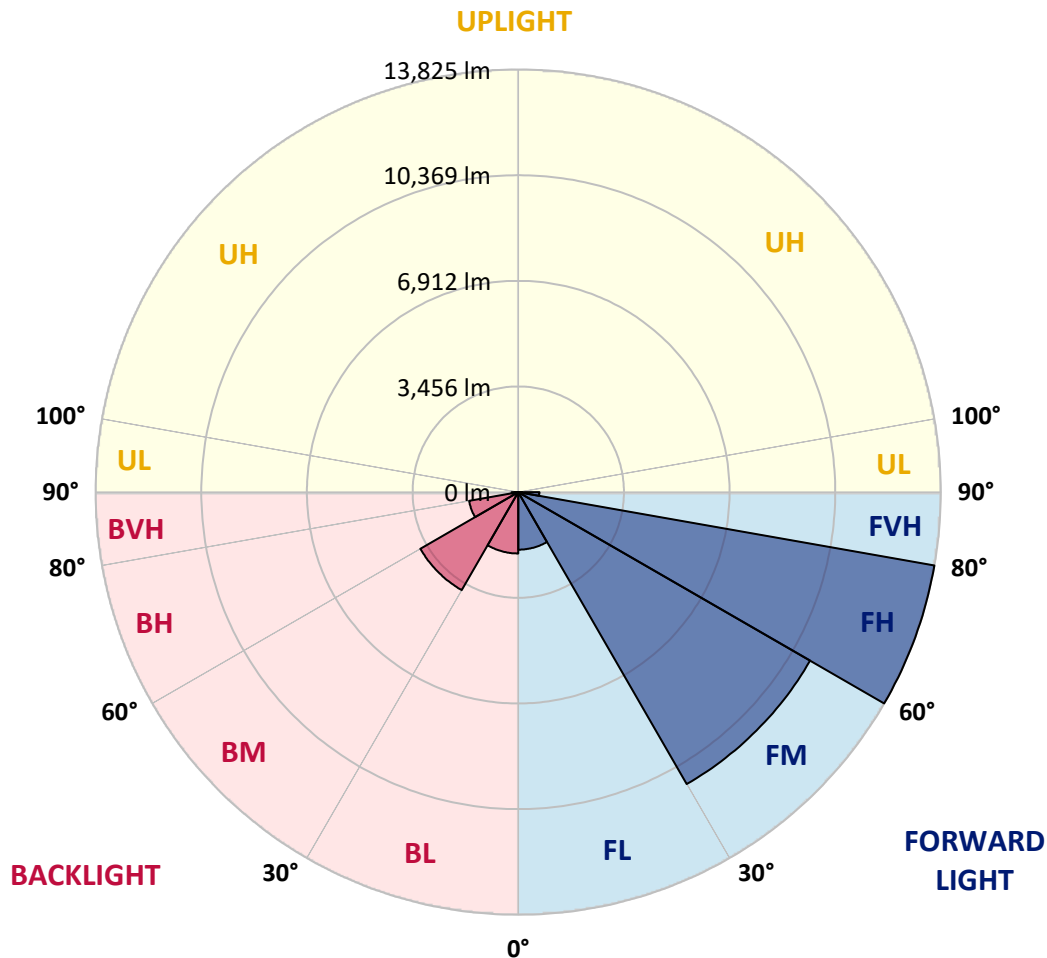
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1882.5	5.4			
FM (30°-60°)	11026.0	31.5			
FH (60°-80°)	13824.9	39.5			G5
FVH (80°-90°)	690.7	2.0			G4/750
BL (0°-30°)	2007.6	5.7	B3/2500		
BM (30°-60°)	3700.3	10.6	B3/5000		
BH (60°-80°)	1631.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	216.7	0.6			G2/225
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°	34°	35°	45°	55°	65°	75°	85°
0°	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0
2.5°	4493.5	4508.3	4556.4	4567.5	4619.3	4589.7	4652.5	4763.5	4826.4	4918.8	5029.8
5°	4138.5	4075.6	4105.2	4219.8	4279.0	4293.8	4360.4	4549.0	4667.3	4804.2	5011.3
7.5°	3720.6	3709.5	3768.6	3842.6	3960.9	3972.0	4120.0	4286.4	4530.5	4833.8	5077.8
10°	3435.8	3483.9	3517.1	3594.8	3676.2	3676.2	3864.8	4153.3	4430.6	4722.8	5092.6
12.5°	3421.0	3391.4	3398.8	3439.5	3498.6	3572.6	3750.1	4009.0	4360.4	4700.6	5155.5
15°	3469.1	3480.2	3413.6	3465.4	3487.6	3513.4	3709.5	4001.6	4316.0	4778.3	5262.8
17.5°	3724.2	3661.4	3557.8	3509.7	3587.4	3587.4	3720.6	3949.8	4323.4	4819.0	5418.1
20°	3924.0	3924.0	3753.8	3702.1	3757.5	3746.4	3838.9	4009.0	4360.4	4900.3	5591.9
22.5°	4260.5	4308.6	4027.5	3920.3	3916.6	3946.2	4027.5	4171.8	4463.9	5015.0	5758.3
25°	4745.0	4756.1	4430.6	4319.7	4201.3	4249.4	4264.2	4408.4	4556.4	5148.1	5947.0
27.5°	5285.0	5277.6	4978.0	4700.6	4622.9	4634.0	4552.7	4648.8	4693.2	5188.8	6216.9
30°	5884.1	5817.5	5591.9	5199.9	5137.0	5066.8	4889.2	4885.5	4978.0	5418.1	6590.5
32.5°	6276.1	6191.1	6035.7	5754.6	5580.8	5588.2	5307.1	5303.4	5222.1	5669.6	6915.9
35°	6660.7	6531.3	6490.6	6202.1	6028.3	6046.8	5821.2	5791.6	5643.7	6050.5	7452.2
37.5°	7123.0	7008.4	7071.3	6853.1	6638.6	6549.8	6446.2	6409.3	6216.9	6586.8	8184.5
40°	7633.4	7596.4	7555.7	7448.5	7319.1	7326.5	7215.5	7178.5	6893.7	7234.0	8887.2
42.5°	8321.3	8180.8	7970.0	8040.2	8106.8	8177.1	8140.1	8043.9	7748.1	7892.3	9671.2
45°	8961.1	8776.2	8387.9	8410.1	8683.7	8739.2	9186.7	9175.6	8580.2	8728.1	10562.5
47.5°	9393.8	9308.8	9075.8	9049.9	9441.9	9438.2	10244.5	10244.5	9456.7	9560.3	11520.4
50°	10037.3	9815.4	9715.6	9845.0	10044.7	10181.6	11324.4	11394.6	10318.4	10429.4	12774.1
52.5°	10791.8	10514.4	10262.9	10595.8	10950.8	11039.6	12393.2	12363.6	10980.4	11439.0	14242.4
55°	11416.8	11276.3	11102.5	11294.8	11875.4	11986.4	13465.7	13192.0	11642.4	12274.9	14948.8
57.5°	12145.4	12230.5	12267.5	12219.4	12911.0	13084.8	14689.9	13905.8	12212.0	12837.0	15363.0
60°	13243.8	13295.6	13343.7	13458.3	14190.6	14434.7	15658.9	14800.8	12570.7	13162.5	15396.3
62.5°	14915.5	14715.8	14823.0	15218.8	15806.8	16084.2	17086.4	15429.6	12844.4	13358.5	14309.0
65°	16827.5	16557.6	16446.6	16957.0	18480.7	18258.8	18869.0	15899.2	12448.7	12626.2	12134.3
67.5°	18765.5	18795.1	18510.3	19534.7	21402.4	21402.4	20525.9	16124.8	11376.2	10233.4	8509.9
70°	20304.0	20396.5	20551.8	22537.8	25496.5	25944.0	22578.5	15200.3	9190.4	6812.4	4652.5
72.5°	20281.8	20004.4	20799.6	24457.3	29217.0	28843.5	23007.5	12019.7	5736.2	3335.9	2134.0
73°	19826.9	19593.9	20463.0	24438.8	29368.7	29017.3	22693.1	11080.3	5059.4	2892.1	1897.3
75°	16191.4	15769.8	17249.2	22134.7	27171.9	27441.8	19279.6	7226.6	2773.8	1782.6	1335.1
77.5°	7381.9	7566.8	9493.7	14848.9	20940.1	21258.2	12674.3	3125.1	1520.0	1250.0	983.8
80°	2370.6	2489.0	3694.7	7381.9	13125.5	13698.7	5858.2	1420.2	1083.6	957.9	736.0
82.5°	906.1	902.4	1549.6	3069.6	6220.6	6586.8	2141.4	865.4	806.2	706.4	521.5
85°	318.1	332.9	584.3	1213.1	2448.3	2563.0	743.4	480.8	558.5	473.4	299.6
87.5°	111.0	114.6	207.1	440.1	843.2	891.3	207.1	192.3	277.4	273.7	151.6
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°	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0	5015.0
2.5°	5066.8	5100.0	5111.1	5244.3	5244.3	5244.3	5296.1	5296.1	5281.3	5244.3	5333.0
5°	5088.9	5148.1	5262.8	5377.4	5407.0	5432.9	5503.2	5444.0	5466.2	5429.2	5462.5
7.5°	5151.8	5233.2	5447.7	5518.0	5469.9	5525.3	5451.4	5410.7	5370.0	5384.8	5333.0
10°	5259.1	5362.6	5462.5	5591.9	5499.5	5444.0	5292.4	5255.4	5125.9	5081.5	5122.2
12.5°	5392.2	5518.0	5688.1	5640.0	5462.5	5303.4	5140.7	4985.4	4907.7	4796.8	4826.4
15°	5525.3	5669.6	5695.5	5614.1	5392.2	5192.5	4896.6	4678.4	4600.8	4500.9	4552.7
17.5°	5669.6	5806.4	5762.0	5551.2	5251.7	4948.4	4611.9	4397.3	4234.6	4171.8	4171.8
20°	5884.1	5950.7	5880.4	5447.7	5081.5	4682.1	4356.7	4112.6	3949.8	3924.0	3883.3
22.5°	6050.5	6157.8	5843.4	5296.1	4833.8	4334.5	3960.9	3868.5	3820.4	3779.7	3727.9
25°	6265.0	6261.3	5776.8	5155.5	4408.4	3920.3	3694.7	3687.3	3665.1	3650.3	3720.6
27.5°	6468.4	6383.4	5699.2	4807.9	3968.3	3605.9	3483.9	3565.2	3598.5	3576.3	3605.9
30°	6790.2	6649.7	5588.2	4438.0	3580.0	3287.8	3310.0	3421.0	3476.5	3509.7	3465.4
32.5°	7130.4	6915.9	5358.9	4053.4	3236.1	3088.1	3139.9	3254.6	3321.1	3358.1	3398.8
35°	7622.3	7123.0	5125.9	3550.4	2988.3	2966.1	2995.7	3058.5	3154.7	3180.6	3191.7
37.5°	8228.9	7437.4	4811.6	3147.3	2796.0	2821.8	2851.4	2873.6	2877.3	2925.4	2906.9
40°	8835.4	7703.7	4353.0	2762.7	2596.2	2736.8	2722.0	2681.3	2648.0	2603.6	2592.6
42.5°	9367.9	7936.7	3842.6	2437.2	2418.7	2648.0	2599.9	2496.4	2418.7	2385.4	2330.0
45°	9967.1	8265.8	3328.5	2233.8	2281.9	2540.8	2526.0	2367.0	2267.1	2148.7	2134.0
47.5°	10743.7	8609.8	2836.6	2023.0	2152.4	2500.1	2507.5	2304.1	2159.8	2000.8	1978.6
50°	11738.6	9105.4	2463.1	1934.2	2074.8	2440.9	2452.0	2219.0	2030.4	1867.7	1852.9
52.5°	12692.8	9612.0	2152.4	1797.4	2023.0	2370.6	2396.5	2141.4	1923.1	1719.7	1730.8
55°	13173.6	9427.1	1886.2	1697.5	1904.7	2256.0	2352.2	2085.9	1760.4	1619.9	1616.2
57.5°	13280.8	8972.2	1675.4	1594.0	1804.8	2134.0	2278.2	1919.4	1686.5	1568.1	1553.3
60°	12929.5	8177.1	1508.9	1483.0	1679.1	2008.2	2108.1	1830.7	1612.5	1516.3	1494.1
62.5°	12064.1	7352.3	1394.3	1431.3	1571.8	1871.4	2000.8	1767.8	1542.2	1475.6	1427.6
65°	9893.1	6046.8	1301.8	1331.4	1460.9	1738.2	1934.2	1697.5	1479.3	1416.5	1412.8
67.5°	6853.1	4168.1	1227.9	1283.3	1372.1	1642.1	1867.7	1619.9	1398.0	1375.8	1346.2
70°	3509.7	2222.7	1131.7	1176.1	1275.9	1520.0	1749.3	1538.5	1312.9	1309.2	1272.2
72.5°	1778.9	1301.8	1020.7	1087.3	1157.6	1361.0	1601.4	1431.3	1205.7	1165.0	1105.8
73°	1538.5	1205.7	1002.3	1061.4	1128.0	1316.6	1557.0	1405.4	1190.9	1131.7	1076.2
75°	1120.6	950.5	898.7	957.9	1009.7	1187.2	1409.1	1287.0	1094.7	1031.8	980.1
77.5°	839.5	732.3	747.1	813.6	858.0	1024.4	1253.7	1165.0	991.2	906.1	883.9
80°	617.6	558.5	617.6	680.5	713.8	902.4	1142.8	1009.7	835.8	739.7	721.2
82.5°	440.1	406.8	477.1	517.8	532.6	747.1	1028.1	806.2	632.4	506.7	466.0
85°	251.5	247.8	321.8	318.1	329.2	436.4	676.8	536.3	406.8	310.7	303.3
87.5°	111.0	122.0	162.7	129.4	136.8	207.1	288.5	199.7	166.4	92.5	70.3
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)