

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: P478730

Luminaire Tested: **IFLD-L-SA7D-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478730
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

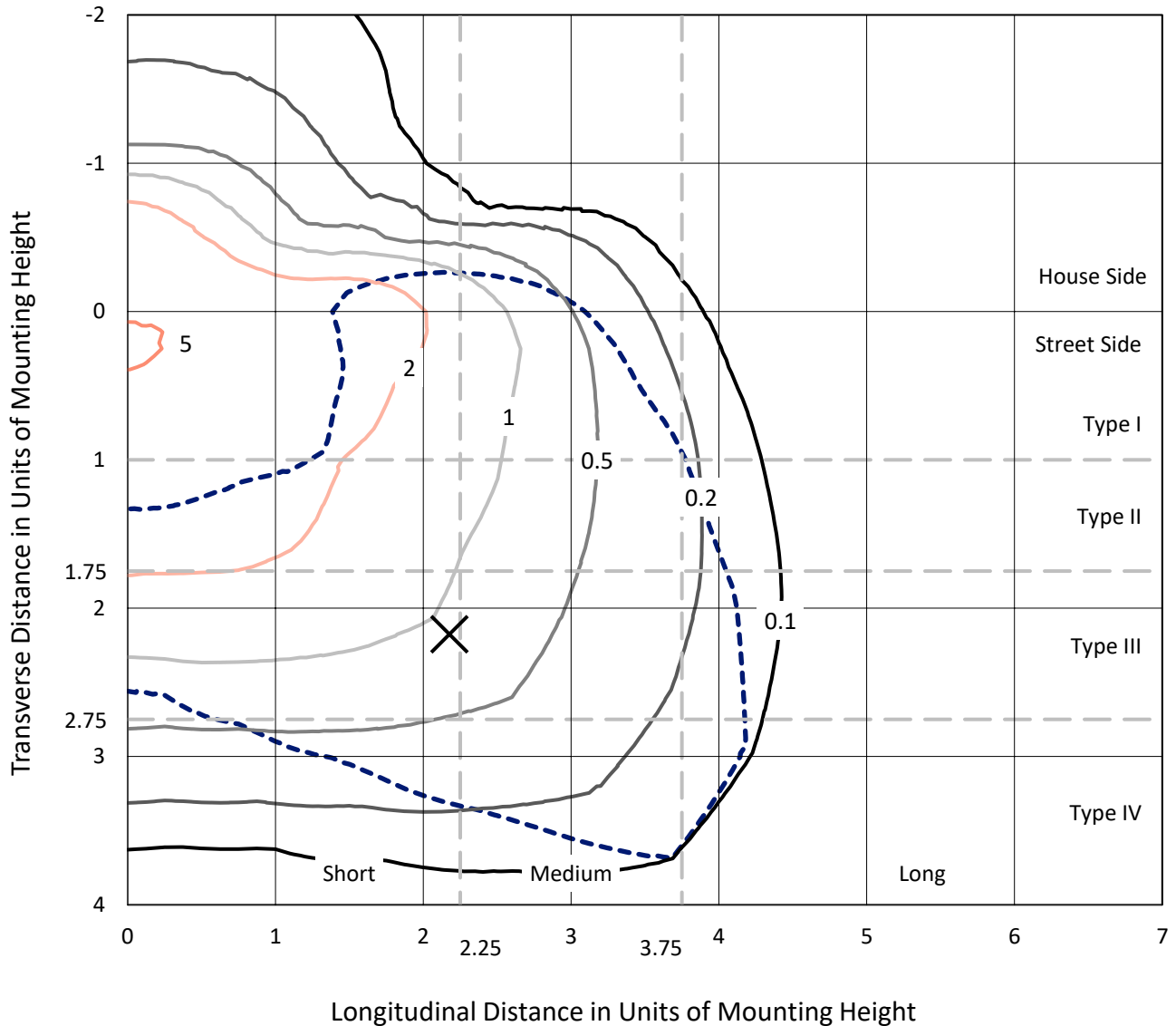
Lumens per Lamp: N/A
Luminaire Lumens: 39177.7 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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

REPORT NUMBER: P478730
 CATALOG NUMBER: IFLD-L-SA7D-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

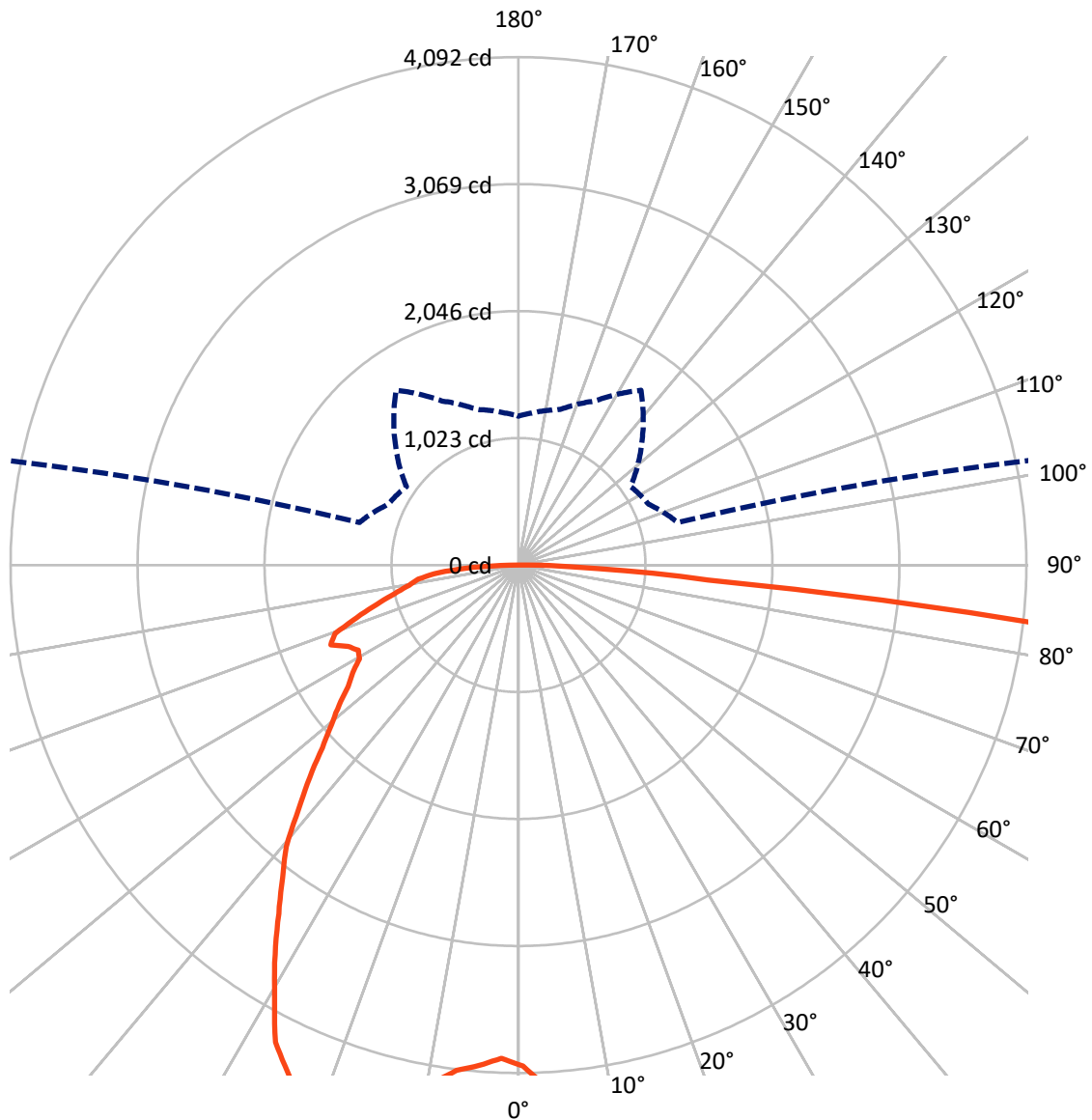
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P478730
CATALOG NUMBER: IFLD-L-SA7D-830-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478730

CATALOG NUMBER: IFLD-L-SA7D-830-U-T4W

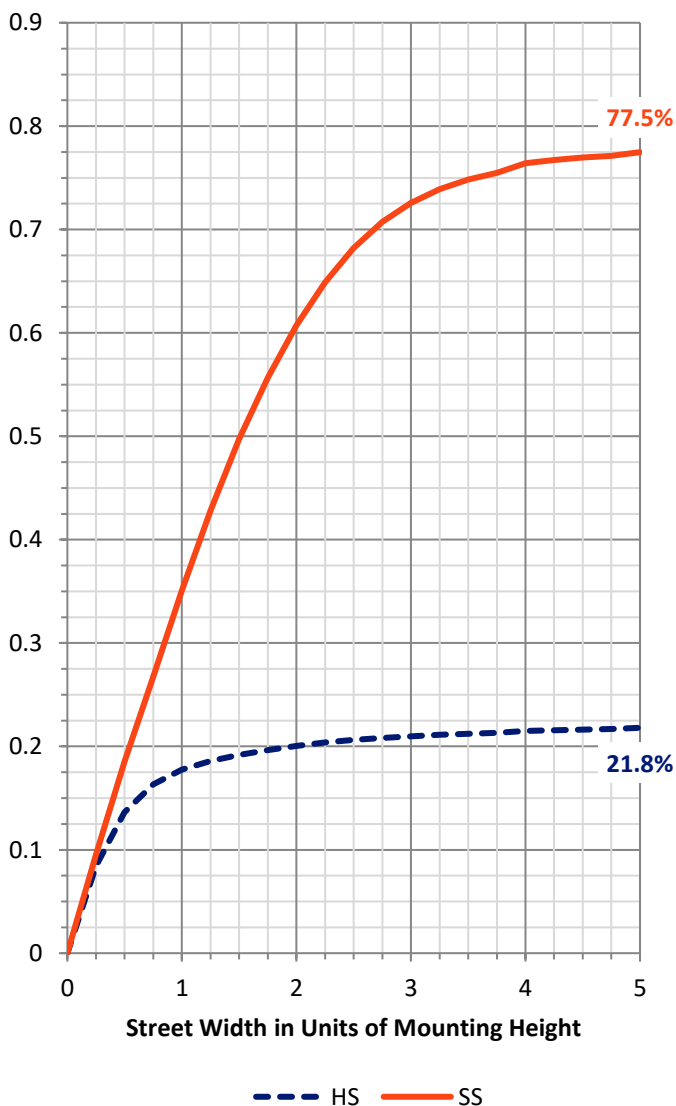
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8721.2	0.0	8721.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	30456.5	0.0	30456.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	39177.7	0.0	39177.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.8	1.1
10°-20°	1373.6	3.5
20°-30°	2319.6	5.9
30°-40°	3209.9	8.2
40°-50°	4591.5	11.7
50°-60°	7405.6	18.9
60°-70°	10922.2	27.9
70°-80°	7931.4	20.2
80°-90°	1011.1	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°	39177.7	100.0
0°-180°	39177.7	100.0



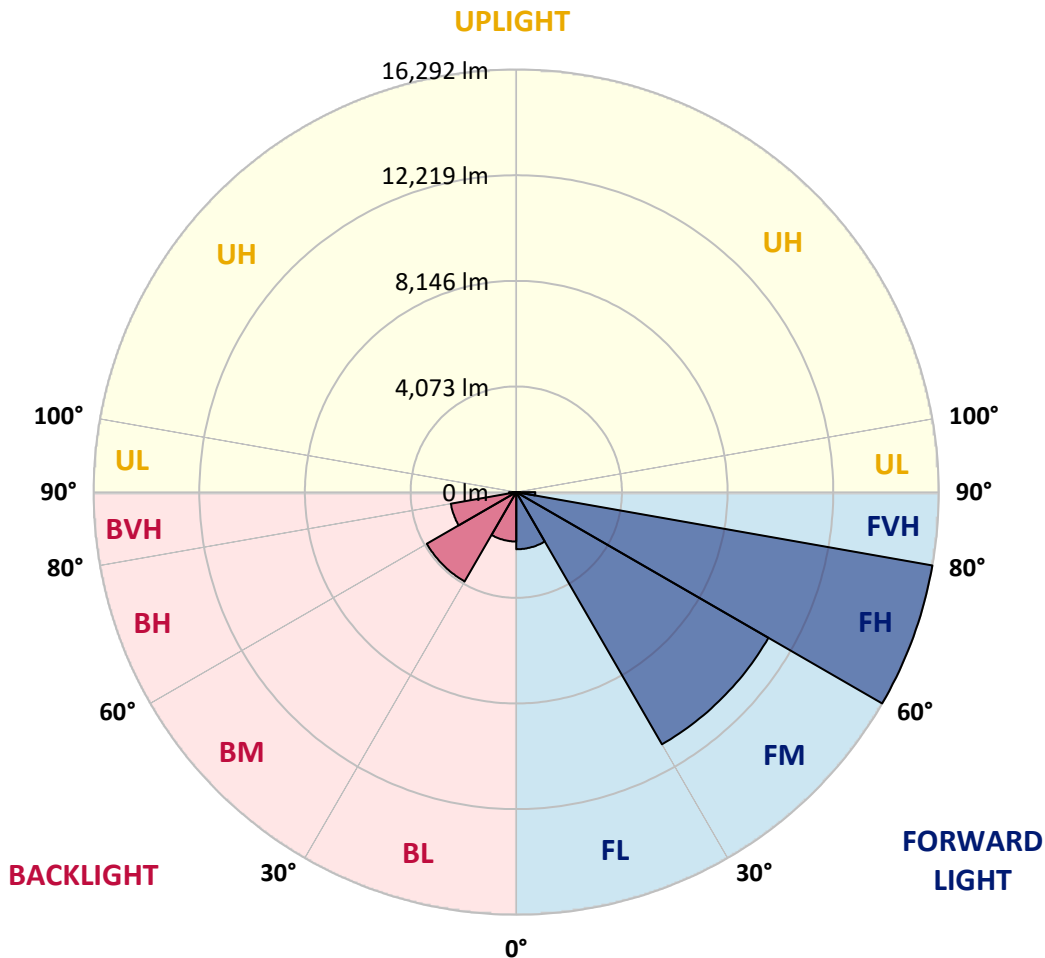
REPORT NUMBER: P478730
 CATALOG NUMBER: IFLD-L-SA7D-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.8	5.6			
FM (30°-60°)	11227.0	28.7			
FH (60°-80°)	16291.8	41.6			G5
FVH (80°-90°)	735.9	1.9			G4/750
BL (0°-30°)	1904.2	4.9	B3/2500		
BM (30°-60°)	3980.1	10.2	B3/5000		
BH (60°-80°)	2561.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	275.1	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





REPORT NUMBER: P478730
 CATALOG NUMBER: IFLD-L-SA7D-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6
2.5°	4250.1	4275.4	4250.1	4245.8	4203.6	4174.0	4199.4	4161.3	4119.1	4102.2	4064.2
5°	4638.7	4642.9	4596.5	4600.7	4512.0	4419.0	4435.9	4321.9	4199.4	4152.9	4076.8
7.5°	5035.8	4989.4	4921.8	4900.7	4761.2	4659.8	4647.2	4545.8	4355.7	4250.1	4144.4
10°	5293.6	5310.5	5200.6	5107.7	4989.4	4866.9	4862.6	4672.5	4562.7	4406.4	4271.2
12.5°	5521.7	5525.9	5433.0	5285.1	5137.2	4985.1	5006.3	4921.8	4735.9	4588.0	4452.8
15°	5699.1	5673.8	5572.4	5437.2	5280.9	5162.6	5149.9	5078.1	4921.8	4799.3	4575.4
17.5°	5749.8	5737.1	5635.8	5492.1	5340.0	5251.3	5285.1	5166.8	5103.4	4993.6	4778.1
20°	5652.7	5623.1	5606.2	5445.6	5335.8	5327.3	5297.8	5323.1	5217.5	5116.1	4959.8
22.5°	5475.2	5462.5	5454.1	5327.3	5276.7	5314.7	5365.4	5403.4	5386.5	5289.3	5111.9
25°	5293.6	5352.7	5297.8	5238.6	5310.5	5407.6	5394.9	5517.5	5517.5	5487.9	5340.0
27.5°	5420.3	5382.3	5340.0	5310.5	5335.8	5487.9	5479.4	5627.3	5682.2	5627.3	5458.3
30°	5737.1	5699.1	5576.6	5445.6	5411.8	5576.6	5618.9	5749.8	5775.2	5640.0	5496.3
32.5°	6332.8	6311.7	6117.4	5732.9	5525.9	5618.9	5640.0	5787.8	5766.7	5682.2	5623.1
35°	7215.8	7144.0	6873.6	6223.0	5766.7	5673.8	5618.9	5737.1	5817.4	5775.2	5720.2
37.5°	8183.2	8103.0	7769.2	6945.4	6201.9	5821.6	5779.4	5876.6	5969.5	5948.4	5834.3
40°	9108.5	9108.5	8808.5	7849.5	6848.2	6180.7	6189.2	6079.3	6163.8	6125.8	6146.9
42.5°	10021.0	9987.2	9864.7	8909.9	7541.1	6780.6	6645.5	6370.9	6522.9	6510.3	6539.8
45°	10946.2	10920.9	10887.1	9898.5	8533.9	7591.8	7520.0	7025.7	7165.1	7105.9	7232.7
47.5°	11685.5	11715.1	11715.1	11001.1	9594.3	8673.3	8567.7	7786.1	8052.3	8081.9	8111.4
50°	12315.0	12327.7	12315.0	12053.1	10777.2	9911.2	9695.7	8901.4	9167.6	9400.0	9670.3
52.5°	13185.3	13202.2	13143.0	13041.7	12382.6	11212.4	10971.6	10088.6	10633.6	10878.6	11364.5
55°	14258.4	14131.6	14021.8	14097.8	13924.6	12644.5	12395.3	11313.8	12133.3	12458.6	13430.3
57.5°	14456.9	14566.8	14845.6	15449.7	15699.0	14038.7	13895.0	12817.7	13827.5	14110.5	15732.8
60°	15158.2	14976.6	15661.0	16970.6	17249.5	15855.3	15707.4	14465.4	15513.1	15808.8	17857.8
62.5°	15618.7	15610.3	16624.2	18178.9	18812.6	17739.5	17439.6	16607.3	17334.0	17621.2	20173.0
65°	15483.5	15606.1	17405.8	18888.6	20118.0	19881.5	19708.2	18449.3	19408.3	19382.9	21681.2
67.5°	14249.9	14596.3	16911.5	19399.8	22061.4	22492.3	22437.4	21039.0	21093.9	20557.4	22352.9
70°	12538.9	12420.6	14820.3	18867.5	23033.1	25589.0	25576.3	22965.5	22610.6	20815.1	20426.4
72°	9632.3	9501.4	11474.3	16201.7	22521.9	26826.9	27207.1	24300.5	22593.7	19746.3	16873.5
72.5°	8745.1	8631.1	10595.6	15251.2	21955.8	27147.9	26970.5	24351.2	22416.3	19243.5	15762.4
75°	4026.1	3895.2	5293.6	9336.6	17126.9	24055.5	24659.6	22788.0	19577.3	15318.8	9442.2
77.5°	1199.8	1161.8	1702.6	3768.4	9953.4	17722.6	17955.0	17194.5	13666.9	8390.3	3502.3
80°	667.5	671.7	878.7	1411.1	4376.8	10244.9	11081.4	10620.9	6704.6	2771.4	1166.0
82.5°	371.8	392.9	549.2	836.5	2011.0	4702.1	5061.2	4879.5	2425.0	1301.2	637.9
85°	194.3	202.8	287.3	447.8	1140.7	1487.1	1529.3	1639.2	1259.0	887.2	342.2
87.5°	76.0	76.0	105.6	185.9	422.5	460.5	414.0	502.7	722.4	574.6	169.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478730
 CATALOG NUMBER: IFLD-L-SA7D-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6	4034.6
2.5°	4098.0	4064.2	4059.9	4005.0	4021.9	3975.4	3979.7	3971.2	3975.4	3967.0	3945.9
5°	4076.8	4051.5	3979.7	4026.1	3983.9	4043.0	4089.5	4072.6	4085.3	4081.1	4085.3
7.5°	4106.4	4072.6	4064.2	4038.8	4076.8	4102.2	4140.2	4245.8	4237.4	4250.1	4275.4
10°	4195.1	4157.1	4131.8	4169.8	4148.7	4228.9	4271.2	4326.1	4423.3	4427.5	4376.8
12.5°	4368.3	4343.0	4292.3	4300.7	4372.6	4397.9	4423.3	4457.1	4520.4	4507.8	4554.2
15°	4566.9	4512.0	4482.4	4474.0	4490.9	4520.4	4516.2	4550.0	4583.8	4613.4	4600.7
17.5°	4710.5	4638.7	4647.2	4689.4	4685.2	4676.7	4621.8	4604.9	4621.8	4638.7	4630.3
20°	4858.4	4866.9	4803.5	4765.5	4748.6	4664.1	4621.8	4571.1	4520.4	4545.8	4583.8
22.5°	5044.3	5006.3	4913.3	4799.3	4714.8	4664.1	4533.1	4444.4	4444.4	4469.7	4457.1
25°	5255.5	5175.3	5014.7	4807.7	4702.1	4486.6	4393.7	4381.0	4347.2	4385.2	4402.1
27.5°	5420.3	5348.5	5128.8	4778.1	4486.6	4313.4	4258.5	4241.6	4296.5	4300.7	4368.3
30°	5487.9	5466.8	5145.7	4702.1	4266.9	3988.1	3954.3	4030.4	4089.5	4178.2	4182.5
32.5°	5576.6	5585.1	5171.0	4524.7	3979.7	3700.8	3650.1	3743.1	3912.1	3983.9	4038.8
35°	5724.5	5766.7	5149.9	4305.0	3675.5	3409.3	3400.9	3426.2	3591.0	3717.7	3789.6
37.5°	5982.2	5973.7	5145.7	4043.0	3434.7	3155.9	3088.3	3096.7	3206.5	3312.2	3299.5
40°	6328.6	6294.8	5133.0	3700.8	3122.1	2940.4	2826.3	2784.1	2775.6	2746.1	2754.5
42.5°	6801.8	6734.2	5128.8	3354.4	2839.0	2644.7	2564.4	2454.6	2374.3	2222.2	2230.6
45°	7460.8	7342.5	5018.9	3029.1	2560.2	2399.6	2277.1	2196.8	2023.6	1833.5	1833.5
47.5°	8479.0	8094.5	5023.2	2670.0	2289.8	2158.8	2074.3	1934.9	1749.0	1596.9	1580.0
50°	9978.7	9100.0	4879.5	2387.0	2070.1	1981.4	1892.7	1732.1	1554.7	1449.1	1461.7
52.5°	11913.7	10599.8	4875.3	2133.5	1896.9	1833.5	1736.4	1592.7	1461.7	1394.2	1368.8
55°	14220.3	12585.4	5027.4	1926.5	1719.5	1685.7	1643.4	1525.1	1398.4	1339.2	1335.0
57.5°	16582.0	14524.5	5272.4	1778.6	1567.4	1592.7	1563.1	1470.2	1368.8	1301.2	1292.8
60°	18681.6	16062.3	4778.1	1601.2	1432.2	1487.1	1529.3	1449.1	1394.2	1389.9	1360.4
62.5°	20265.9	16721.4	3633.2	1466.0	1360.4	1461.7	1575.8	1626.5	1601.2	1635.0	1639.2
65°	20844.7	16324.3	2501.0	1394.2	1305.4	1520.9	1774.4	1757.5	1609.6	1546.2	1580.0
67.5°	20033.5	14714.6	1854.6	1309.7	1267.4	1643.4	1888.4	1677.2	1453.3	1444.8	1419.5
70°	17228.3	12471.3	1512.4	1220.9	1204.0	1575.8	1837.7	1554.7	1368.8	1313.9	1288.5
72°	13726.1	9712.6	1326.6	1157.6	1102.6	1406.8	1719.5	1457.5	1297.0	1229.4	1199.8
72.5°	12530.5	9002.8	1301.2	1128.0	1081.5	1368.8	1660.3	1427.9	1280.1	1220.9	1174.5
75°	6873.6	4609.2	1144.9	1035.1	912.5	1182.9	1537.8	1339.2	1208.3	1123.8	1115.3
77.5°	2555.9	1787.0	988.6	916.8	790.0	1022.4	1398.4	1271.6	1098.4	992.8	971.7
80°	980.1	942.1	806.9	773.1	663.3	895.6	1288.5	1140.7	933.7	828.0	794.2
82.5°	595.7	549.2	612.6	604.1	507.0	815.4	1212.5	1068.8	828.0	671.7	650.6
85°	325.3	325.3	426.7	409.8	354.9	650.6	916.8	709.8	523.9	430.9	439.4
87.5°	143.6	169.0	228.1	215.5	194.3	367.5	447.8	376.0	261.9	177.4	190.1
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)