

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: P478682

Luminaire Tested: **IFLD-S-SA6E-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478682
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

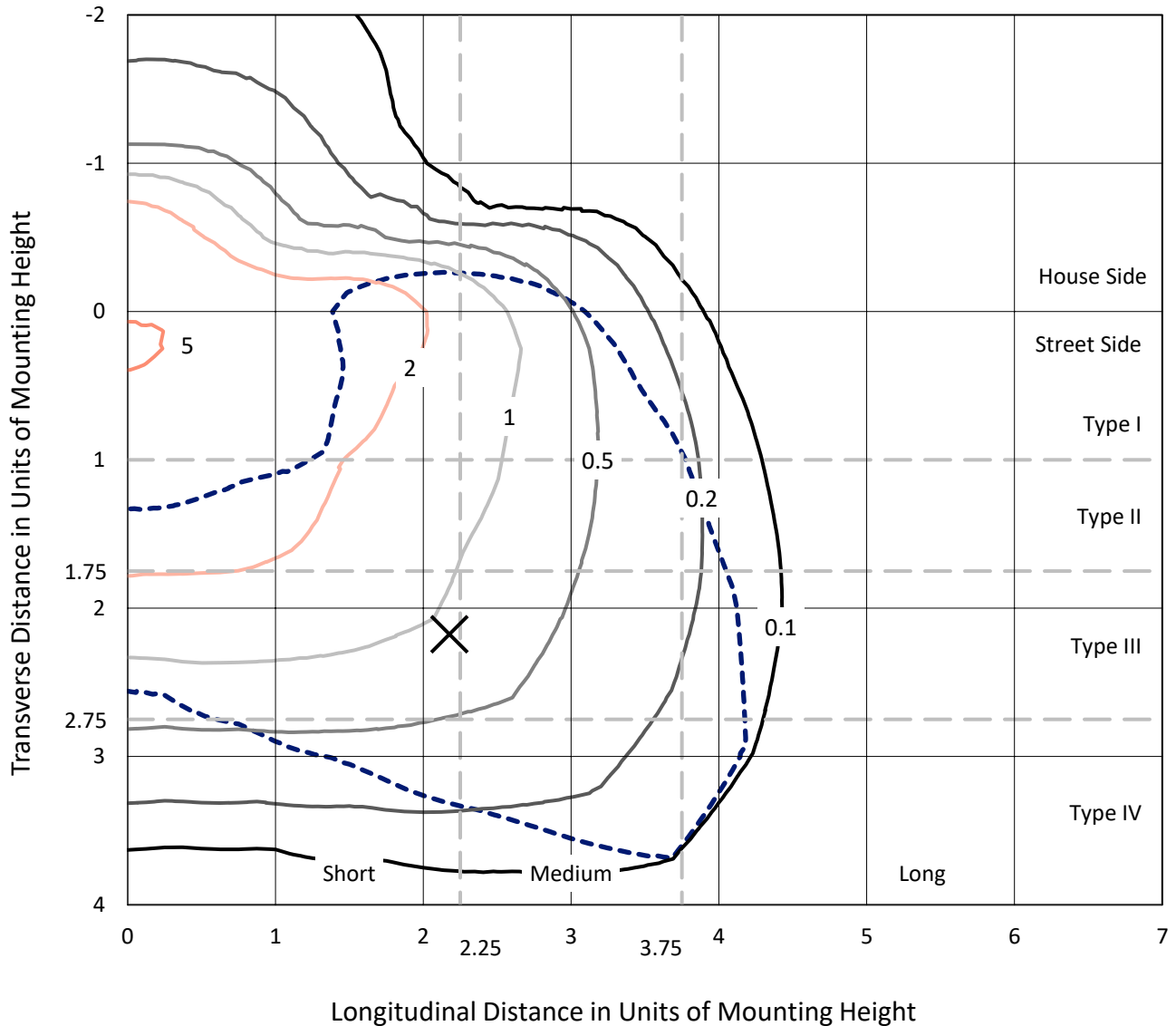
Lumens per Lamp: N/A
Luminaire Lumens: 39315.6 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

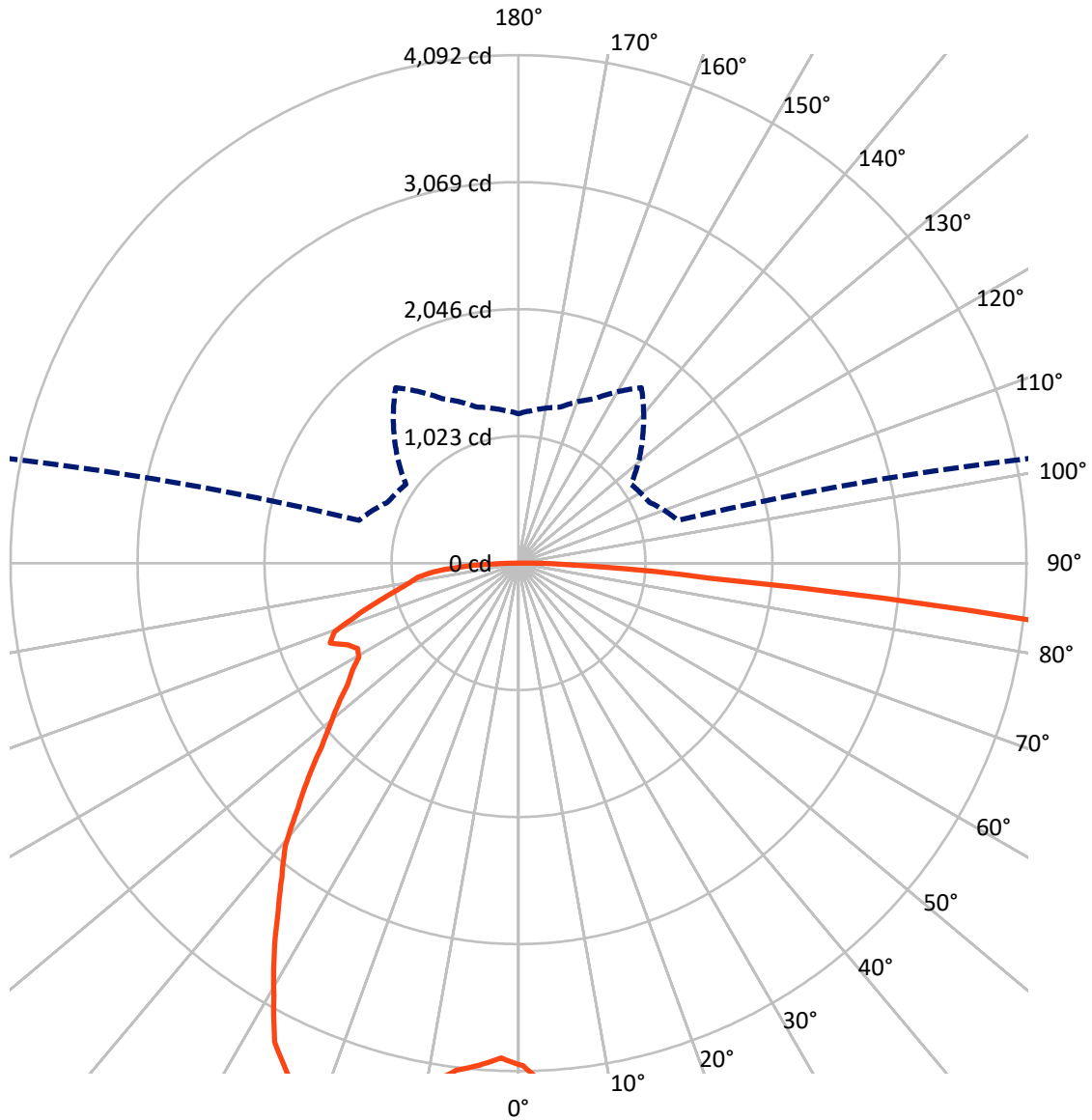
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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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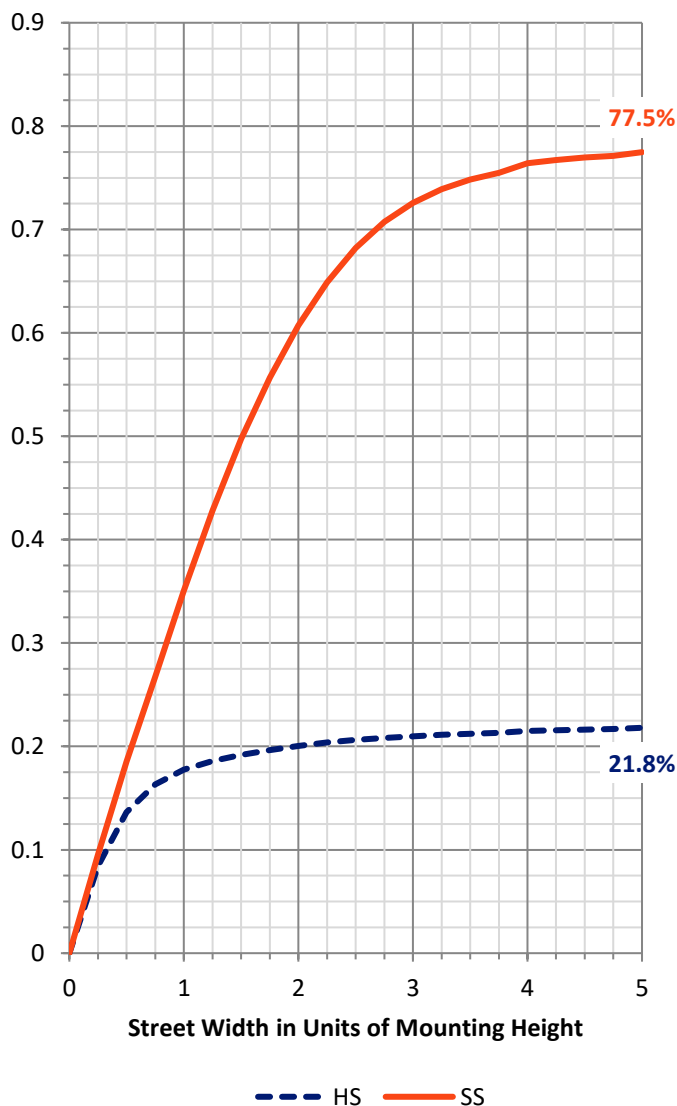
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8751.9	0.0	8751.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	30563.7	0.0	30563.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	39315.6	0.0	39315.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.3	1.1
10°-20°	1378.4	3.5
20°-30°	2327.8	5.9
30°-40°	3221.2	8.2
40°-50°	4607.7	11.7
50°-60°	7431.7	18.9
60°-70°	10960.6	27.9
70°-80°	7959.3	20.2
80°-90°	1014.6	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°	39315.6	100.0
0°-180°	39315.6	100.0

Coefficient of Utilization



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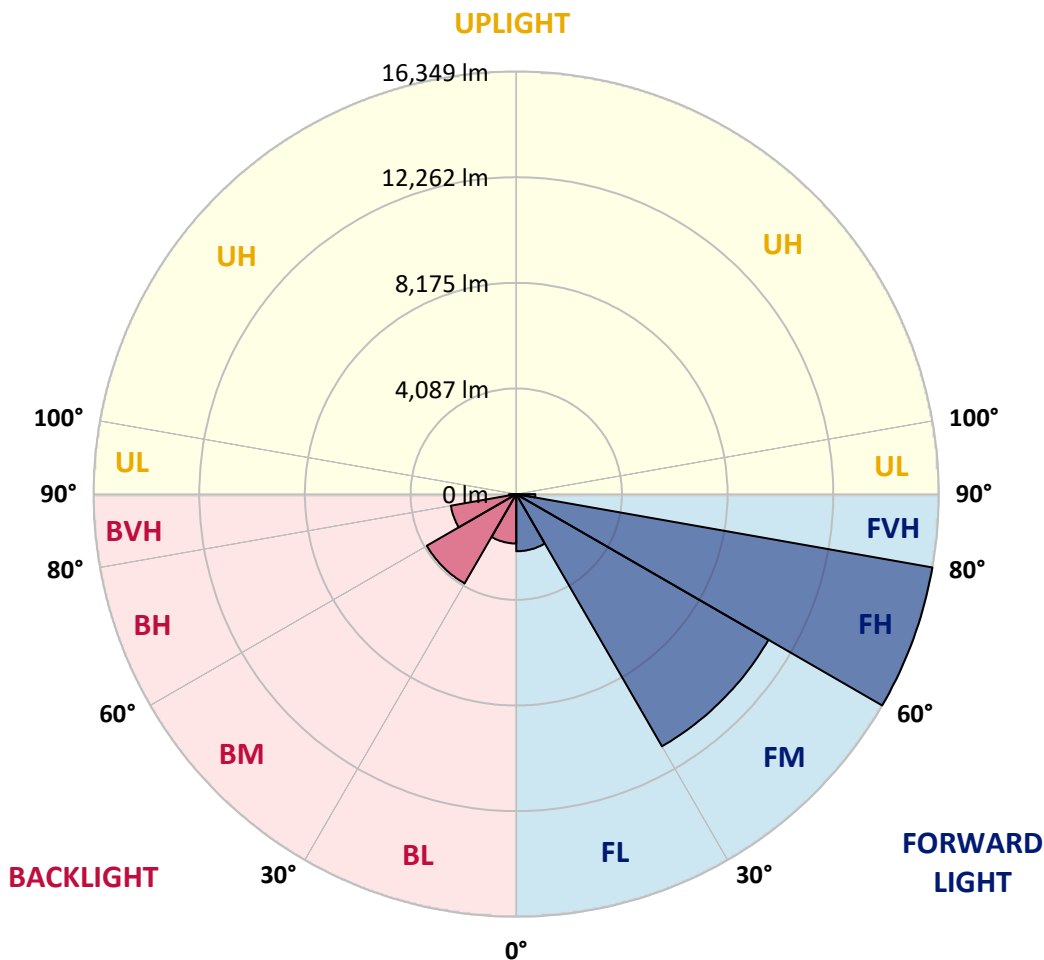
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2209.6	5.6			
FM (30°-60°)	11266.5	28.7			
FH (60°-80°)	16349.2	41.6			G5
FVH (80°-90°)	738.5	1.9			G4/750
BL (0°-30°)	1910.9	4.9	B3/2500		
BM (30°-60°)	3994.1	10.2	B3/5000		
BH (60°-80°)	2570.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	276.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8
2.5°	4265.0	4290.5	4265.0	4260.8	4218.4	4188.7	4214.1	4176.0	4133.6	4116.6	4078.5
5°	4655.1	4659.3	4612.7	4616.9	4527.9	4434.6	4451.6	4337.1	4214.1	4167.5	4091.2
7.5°	5053.6	5006.9	4939.1	4917.9	4778.0	4676.3	4663.5	4561.8	4371.0	4265.0	4159.0
10°	5312.2	5329.1	5218.9	5125.7	5006.9	4884.0	4879.8	4689.0	4578.7	4421.9	4286.2
12.5°	5541.1	5545.4	5452.1	5303.7	5155.3	5002.7	5023.9	4939.1	4752.6	4604.2	4468.5
15°	5719.2	5693.8	5592.0	5456.3	5299.5	5180.8	5168.0	5096.0	4939.1	4816.2	4591.5
17.5°	5770.1	5757.3	5655.6	5511.5	5358.8	5269.8	5303.7	5185.0	5121.4	5011.2	4795.0
20°	5672.6	5642.9	5625.9	5464.8	5354.6	5346.1	5316.4	5341.9	5235.9	5134.1	4977.3
22.5°	5494.5	5481.8	5473.3	5346.1	5295.2	5333.4	5384.3	5422.4	5405.5	5308.0	5129.9
25°	5312.2	5371.5	5316.4	5257.1	5329.1	5426.7	5413.9	5536.9	5536.9	5507.2	5358.8
27.5°	5439.4	5401.2	5358.8	5329.1	5354.6	5507.2	5498.7	5647.1	5702.2	5647.1	5477.5
30°	5757.3	5719.2	5596.2	5464.8	5430.9	5596.2	5638.6	5770.1	5795.5	5659.8	5515.7
32.5°	6355.1	6333.9	6138.9	5753.1	5545.4	5638.6	5659.8	5808.2	5787.0	5702.2	5642.9
35°	7241.2	7169.1	6897.8	6244.9	5787.0	5693.8	5638.6	5757.3	5837.9	5795.5	5740.4
37.5°	8212.1	8131.5	7796.6	6969.9	6223.7	5842.1	5799.7	5897.3	5990.5	5969.3	5854.9
40°	9140.5	9140.5	8839.5	7877.1	6872.4	6202.5	6211.0	6100.8	6185.5	6147.4	6168.6
42.5°	10056.3	10022.4	9899.4	8941.3	7567.6	6804.5	6668.9	6393.3	6545.9	6533.2	6562.9
45°	10984.7	10959.3	10925.4	9933.3	8563.9	7618.5	7546.4	7050.4	7190.3	7131.0	7258.2
47.5°	11726.7	11756.4	11756.4	11039.9	9628.1	8703.9	8597.9	7813.5	8080.6	8110.3	8140.0
50°	12358.4	12371.1	12358.4	12095.5	10815.2	9946.1	9729.8	8932.8	9199.9	9433.1	9704.4
52.5°	13231.7	13248.7	13189.3	13087.6	12426.2	11251.8	11010.2	10124.1	10671.0	10916.9	11404.5
55°	14308.6	14181.4	14071.2	14147.5	13973.6	12689.1	12438.9	11353.6	12176.1	12502.5	13477.6
57.5°	14507.8	14618.1	14897.9	15504.1	15754.3	14088.1	13944.0	12862.9	13876.1	14160.2	15788.2
60°	15211.6	15029.3	15716.1	17030.4	17310.2	15911.1	15762.8	14516.3	15567.7	15864.5	17920.7
62.5°	15673.7	15665.2	16682.7	18242.9	18878.8	17802.0	17501.0	16665.8	17395.0	17683.3	20244.0
65°	15538.1	15661.0	17467.1	18955.2	20188.9	19951.5	19777.6	18514.2	19476.6	19451.2	21757.5
67.5°	14300.1	14647.7	16971.0	19468.1	22139.1	22571.5	22516.4	21113.1	21168.2	20629.8	22431.6
70°	12583.1	12464.4	14872.4	18934.0	23114.2	25679.1	25666.4	23046.3	22690.2	20888.4	20498.4
72°	9666.2	9534.8	11514.7	16258.8	22601.2	26921.3	27302.9	24386.1	22673.3	19815.8	16932.9
72.5°	8775.9	8661.5	10632.9	15304.9	22033.1	27243.5	27065.5	24436.9	22495.2	19311.3	15817.9
75°	4040.3	3908.9	5312.2	9369.5	17187.2	24140.2	24746.4	22868.3	19646.2	15372.7	9475.5
77.5°	1204.0	1165.9	1708.6	3781.7	9988.4	17785.0	18018.2	17255.1	13715.0	8419.8	3514.6
80°	669.9	674.1	881.8	1416.0	4392.2	10281.0	11120.4	10658.3	6728.2	2781.2	1170.1
82.5°	373.1	394.3	551.1	839.4	2018.0	4718.7	5079.0	4896.7	2433.5	1305.8	640.2
85°	195.0	203.5	288.3	449.4	1144.7	1492.3	1534.7	1645.0	1263.4	890.3	343.4
87.5°	76.3	76.3	106.0	186.5	424.0	462.1	415.5	504.5	725.0	576.6	169.6
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°	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8	4048.8
2.5°	4112.4	4078.5	4074.2	4019.1	4036.1	3989.4	3993.7	3985.2	3989.4	3981.0	3959.8
5°	4091.2	4065.8	3993.7	4040.3	3997.9	4057.3	4103.9	4087.0	4099.7	4095.4	4099.7
7.5°	4120.9	4087.0	4078.5	4053.0	4091.2	4116.6	4154.8	4260.8	4252.3	4265.0	4290.5
10°	4209.9	4171.7	4146.3	4184.5	4163.3	4243.8	4286.2	4341.3	4438.8	4443.1	4392.2
12.5°	4383.7	4358.3	4307.4	4315.9	4388.0	4413.4	4438.8	4472.8	4536.3	4523.6	4570.3
15°	4583.0	4527.9	4498.2	4489.7	4506.7	4536.3	4532.1	4566.0	4599.9	4629.6	4616.9
17.5°	4727.1	4655.1	4663.5	4705.9	4701.7	4693.2	4638.1	4621.1	4638.1	4655.1	4646.6
20°	4875.5	4884.0	4820.4	4782.2	4765.3	4680.5	4638.1	4587.2	4536.3	4561.8	4599.9
22.5°	5062.1	5023.9	4930.6	4816.2	4731.4	4680.5	4549.1	4460.0	4460.0	4485.5	4472.8
25°	5274.0	5193.5	5032.4	4824.6	4718.7	4502.4	4409.2	4396.4	4362.5	4400.7	4417.6
27.5°	5439.4	5367.3	5146.8	4795.0	4502.4	4328.6	4273.5	4256.5	4311.7	4315.9	4383.7
30°	5507.2	5486.0	5163.8	4718.7	4282.0	4002.2	3968.2	4044.6	4103.9	4192.9	4197.2
32.5°	5596.2	5604.7	5189.2	4540.6	3993.7	3713.9	3663.0	3756.3	3925.8	3997.9	4053.0
35°	5744.6	5787.0	5168.0	4320.1	3688.4	3421.3	3412.9	3438.3	3603.6	3730.8	3802.9
37.5°	6003.2	5994.8	5163.8	4057.3	3446.8	3167.0	3099.1	3107.6	3217.8	3323.8	3311.1
40°	6350.9	6317.0	5151.1	3713.9	3133.0	2950.7	2836.3	2793.9	2785.4	2755.7	2764.2
42.5°	6825.7	6757.9	5146.8	3366.2	2849.0	2654.0	2573.4	2463.2	2382.6	2230.0	2238.5
45°	7487.1	7368.4	5036.6	3039.8	2569.2	2408.1	2285.1	2204.6	2030.8	1840.0	1840.0
47.5°	8508.8	8123.0	5040.9	2679.4	2297.9	2166.4	2081.6	1941.7	1755.2	1602.6	1585.6
50°	10013.9	9132.1	4896.7	2395.4	2077.4	1988.4	1899.3	1738.2	1560.2	1454.2	1466.9
52.5°	11955.6	10637.1	4892.5	2141.0	1903.6	1840.0	1742.5	1598.3	1466.9	1399.1	1373.6
55°	14270.4	12629.7	5045.1	1933.2	1725.5	1691.6	1649.2	1530.5	1403.3	1343.9	1339.7
57.5°	16640.3	14575.7	5291.0	1784.9	1572.9	1598.3	1568.6	1475.4	1373.6	1305.8	1297.3
60°	18747.4	16118.9	4795.0	1606.8	1437.2	1492.3	1534.7	1454.2	1399.1	1394.8	1365.1
62.5°	20337.3	16780.3	3646.0	1471.1	1365.1	1466.9	1581.4	1632.2	1606.8	1640.7	1645.0
65°	20918.1	16381.7	2509.8	1399.1	1310.0	1526.2	1780.6	1763.7	1615.3	1551.7	1585.6
67.5°	20104.1	14766.5	1861.2	1314.3	1271.9	1649.2	1895.1	1683.1	1458.4	1449.9	1424.5
70°	17289.0	12515.2	1517.8	1225.2	1208.3	1581.4	1844.2	1560.2	1373.6	1318.5	1293.1
72°	13774.4	9746.8	1331.2	1161.6	1106.5	1411.8	1725.5	1462.7	1301.6	1233.7	1204.0
72.5°	12574.6	9034.5	1305.8	1132.0	1085.3	1373.6	1666.2	1433.0	1284.6	1225.2	1178.6
75°	6897.8	4625.4	1148.9	1038.7	915.7	1187.1	1543.2	1343.9	1212.5	1127.7	1119.2
77.5°	2564.9	1793.3	992.1	920.0	792.8	1026.0	1403.3	1276.1	1102.3	996.3	975.1
80°	983.6	945.4	809.8	775.8	665.6	898.8	1293.1	1144.7	936.9	831.0	797.0
82.5°	597.8	551.1	614.7	606.3	508.7	818.2	1216.8	1072.6	831.0	674.1	652.9
85°	326.4	326.4	428.2	411.2	356.1	652.9	920.0	712.2	525.7	432.4	440.9
87.5°	144.1	169.6	228.9	216.2	195.0	368.8	449.4	377.3	262.9	178.1	190.8
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)