

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: P478135

Luminaire Tested: **IFLD-S-SA6D-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478135
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

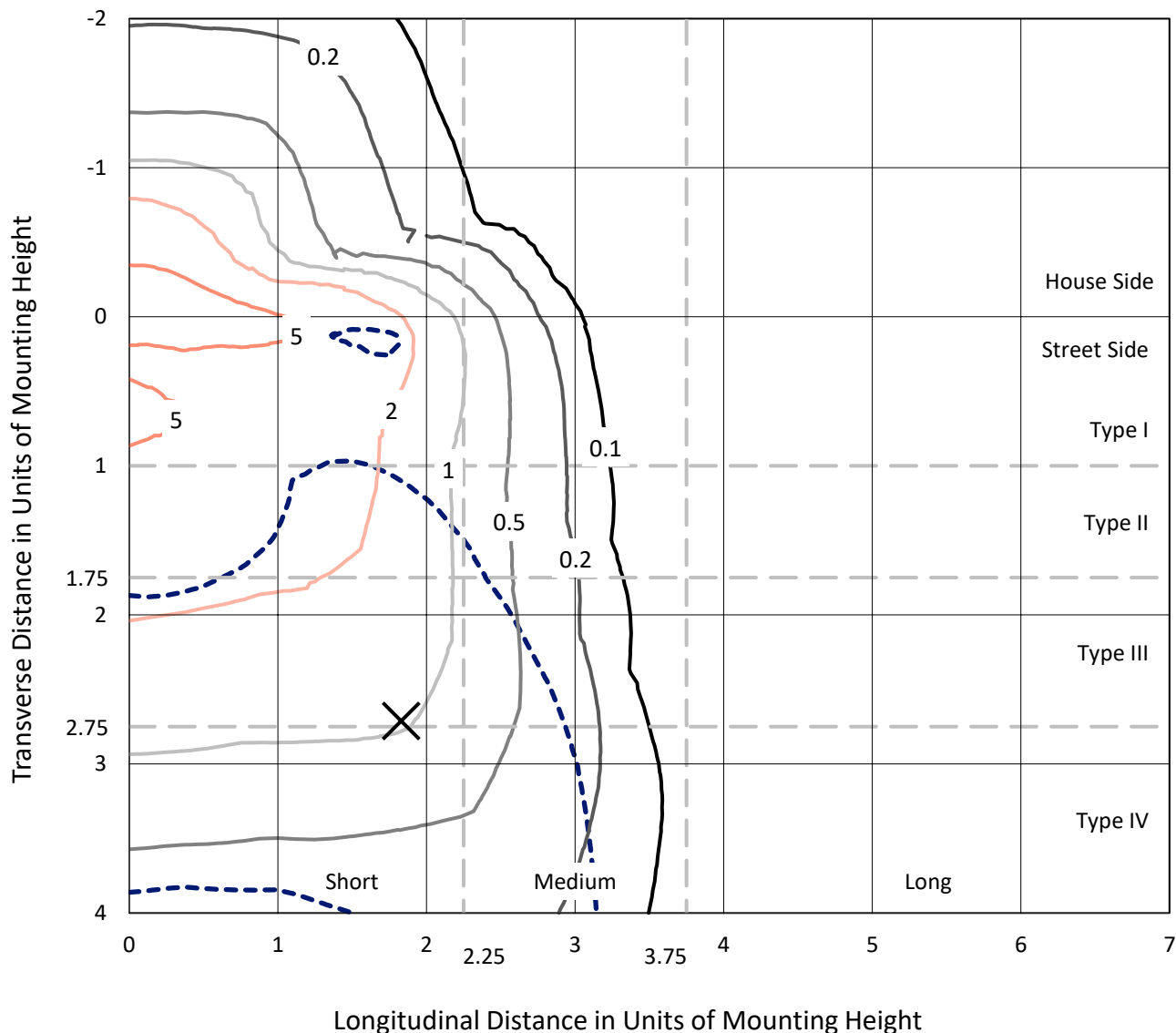
Lumens per Lamp: N/A
Luminaire Lumens: 46199.9 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

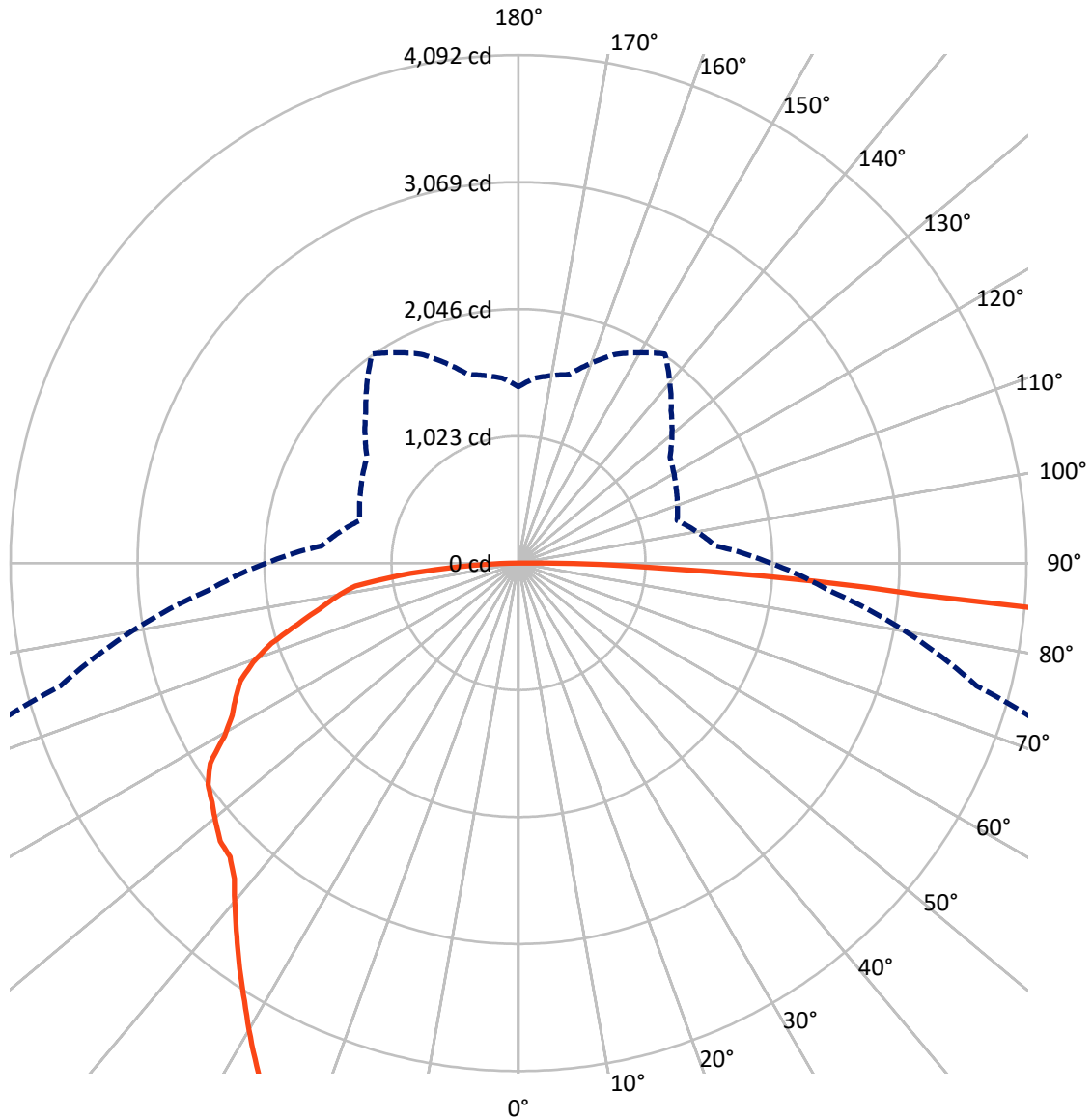
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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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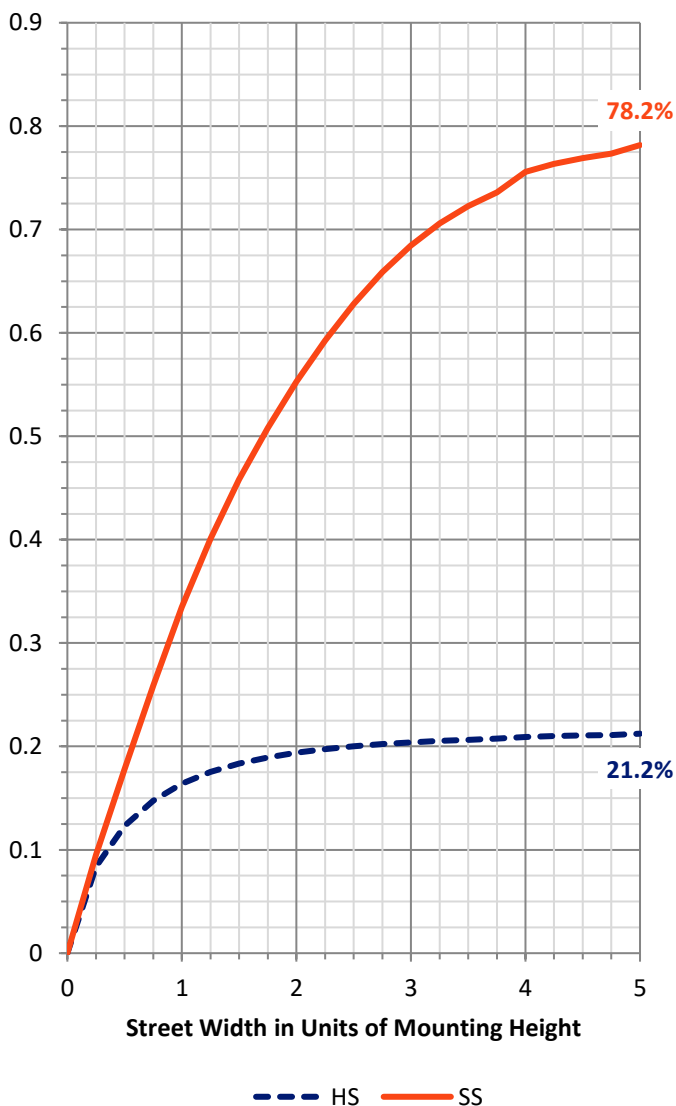
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9979.7	0.0	9979.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	36220.2	0.0	36220.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	46199.9	0.0	46199.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.3	1.3
10°-20°	1710.8	3.7
20°-30°	2815.8	6.1
30°-40°	4210.9	9.1
40°-50°	6242.5	13.5
50°-60°	8996.2	19.5
60°-70°	11480.3	24.8
70°-80°	8933.6	19.3
80°-90°	1198.5	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°	46199.9	100.0
0°-180°	46199.9	100.0

Coefficient of Utilization



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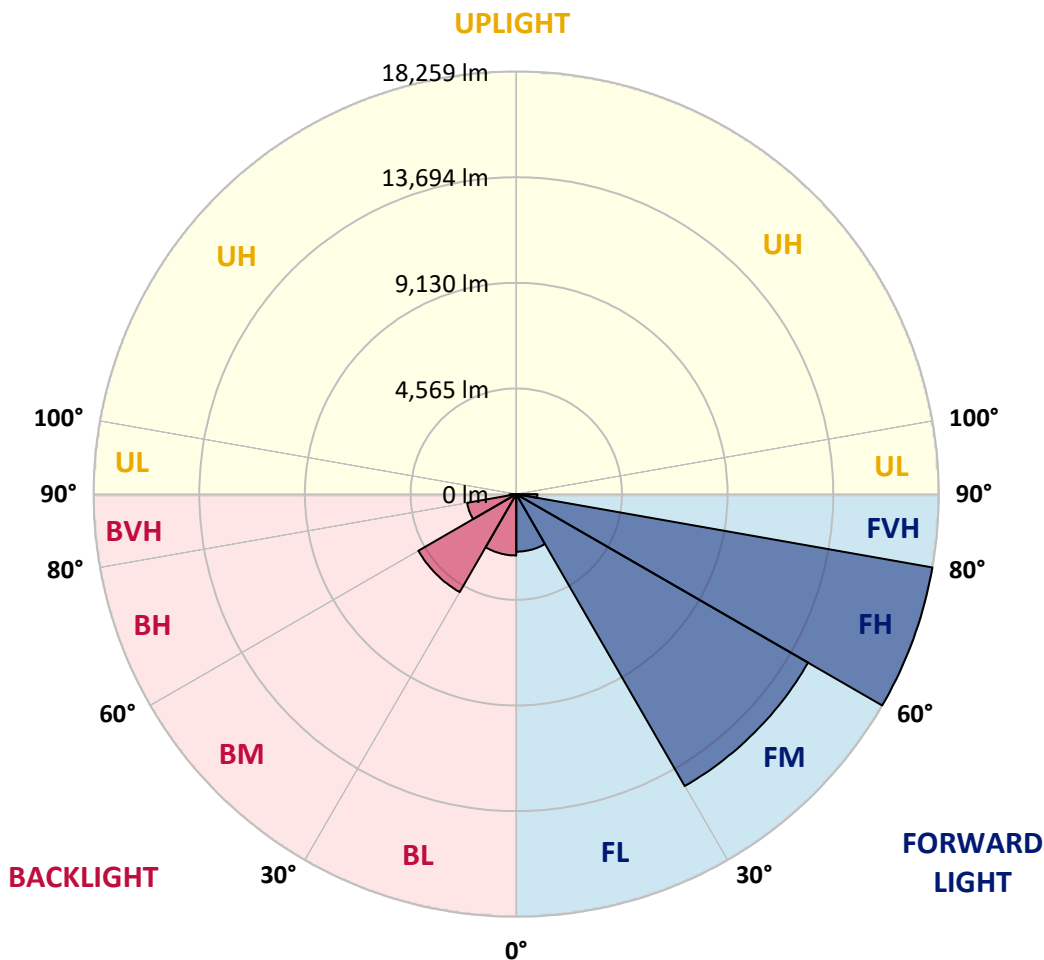
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.3	5.4			
FM (30°-60°)	14562.5	31.5			
FH (60°-80°)	18259.0	39.5			G5
FVH (80°-90°)	912.3	2.0			G5
BL (0°-30°)	2651.6	5.7	B4/5000		
BM (30°-60°)	4887.1	10.6	B3/5000		
BH (60°-80°)	2154.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	286.2	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5
2.5°	5934.8	5954.3	6017.8	6032.4	6100.8	6061.8	6144.8	6291.3	6374.4	6496.5	6643.0
5°	5465.8	5382.8	5421.9	5573.3	5651.5	5671.0	5758.9	6008.0	6164.3	6345.1	6618.6
7.5°	4913.9	4899.2	4977.4	5075.1	5231.4	5246.0	5441.4	5661.2	5983.6	6384.1	6706.5
10°	4537.8	4601.3	4645.2	4747.8	4855.3	4855.3	5104.4	5485.4	5851.7	6237.6	6726.1
12.5°	4518.2	4479.2	4488.9	4542.7	4620.8	4718.5	4953.0	5294.9	5758.9	6208.3	6809.1
15°	4581.7	4596.4	4508.5	4576.8	4606.2	4640.3	4899.2	5285.1	5700.3	6310.9	6950.7
17.5°	4918.8	4835.7	4699.0	4635.5	4738.0	4738.0	4913.9	5216.7	5710.1	6364.6	7155.9
20°	5182.5	5182.5	4957.8	4889.5	4962.7	4948.1	5070.2	5294.9	5758.9	6472.1	7385.5
22.5°	5627.0	5690.5	5319.3	5177.6	5172.8	5211.8	5319.3	5509.8	5895.7	6623.5	7605.3
25°	6266.9	6281.6	5851.7	5705.2	5548.9	5612.4	5631.9	5822.4	6017.8	6799.3	7854.4
27.5°	6980.1	6970.3	6574.6	6208.3	6105.7	6120.4	6012.9	6139.9	6198.5	6853.1	8211.0
30°	7771.4	7683.4	7385.5	6867.7	6784.7	6691.9	6457.4	6452.5	6574.6	7155.9	8704.3
32.5°	8289.1	8176.8	7971.6	7600.4	7370.8	7380.6	7009.4	7004.5	6897.0	7488.1	9134.2
35°	8797.1	8626.2	8572.4	8191.4	7961.9	7986.3	7688.3	7649.2	7453.9	7991.2	9842.4
37.5°	9407.7	9256.3	9339.3	9051.1	8767.8	8650.6	8513.8	8465.0	8211.0	8699.4	10809.6
40°	10081.8	10032.9	9979.2	9837.5	9666.6	9676.3	9529.8	9481.0	9104.8	9554.2	11737.6
42.5°	10990.3	10804.7	10526.3	10619.1	10707.0	10799.8	10750.9	10623.9	10233.2	10423.7	12773.2
45°	11835.3	11591.1	11078.2	11107.5	11469.0	11542.2	12133.3	12118.6	11332.2	11527.6	13950.3
47.5°	12406.8	12294.5	11986.7	11952.6	12470.3	12465.4	13530.3	13530.3	12489.9	12626.6	15215.4
50°	13256.7	12963.7	12831.8	13002.7	13266.5	13447.2	14956.6	15049.4	13628.0	13774.5	16871.3
52.5°	14253.2	13886.8	13554.7	13994.3	14463.2	14580.5	16368.2	16329.1	14502.3	15108.0	18810.5
55°	15078.7	14893.1	14663.5	14917.5	15684.4	15830.9	17784.7	17423.3	15376.6	16211.9	19743.4
57.5°	16040.9	16153.3	16202.1	16138.6	17052.0	17281.6	19401.5	18366.0	16128.9	16954.4	20290.5
60°	17491.7	17560.0	17623.5	17775.0	18742.1	19064.5	20681.3	19548.1	16602.7	17384.2	20334.5
62.5°	19699.5	19435.7	19577.4	20100.0	20876.7	21243.0	22566.7	20378.4	16964.1	17643.1	18898.4
65°	22224.8	21868.2	21721.7	22395.8	24408.2	24115.1	24921.1	20998.8	16441.5	16675.9	16026.3
67.5°	24784.3	24823.4	24447.3	25800.3	28267.0	28267.0	27109.4	21296.7	15024.9	13515.6	11239.4
70°	26816.3	26938.4	27143.6	29766.6	33674.2	34265.3	29820.3	20075.6	12138.2	8997.4	6144.8
72.5°	26787.0	26420.7	27470.8	32301.7	38588.1	38094.8	30386.9	15874.9	7576.0	4405.9	2818.4
73°	26186.2	25878.5	27026.3	32277.3	38788.4	38324.4	29971.7	14634.2	6682.1	3819.7	2505.8
75°	21384.7	20827.8	22781.6	29234.2	35887.0	36243.5	25463.3	9544.5	3663.4	2354.4	1763.3
77.5°	9749.6	9993.8	12538.7	19611.6	27656.5	28076.5	16739.4	4127.5	2007.6	1651.0	1299.3
80°	3131.0	3287.3	4879.7	9749.6	17335.3	18092.5	7737.2	1875.7	1431.2	1265.1	972.0
82.5°	1196.7	1191.8	2046.6	4054.2	8215.9	8699.4	2828.2	1143.0	1064.8	933.0	688.7
85°	420.1	439.6	771.8	1602.1	3233.6	3385.0	981.8	635.0	737.6	625.2	395.7
87.5°	146.5	151.4	273.5	581.3	1113.7	1177.2	273.5	254.0	366.3	361.5	200.3
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°	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5	6623.5
2.5°	6691.9	6735.8	6750.5	6926.3	6926.3	6926.3	6994.7	6994.7	6975.2	6926.3	7043.6
5°	6721.2	6799.3	6950.7	7102.2	7141.2	7175.4	7268.2	7190.1	7219.4	7170.6	7214.5
7.5°	6804.2	6911.7	7195.0	7287.8	7224.3	7297.6	7199.9	7146.1	7092.4	7111.9	7043.6
10°	6945.9	7082.6	7214.5	7385.5	7263.4	7190.1	6989.8	6941.0	6770.0	6711.4	6765.1
12.5°	7121.7	7287.8	7512.5	7449.0	7214.5	7004.5	6789.6	6584.4	6481.8	6335.3	6374.4
15°	7297.6	7488.1	7522.2	7414.8	7121.7	6857.9	6467.2	6179.0	6076.4	5944.5	6012.9
17.5°	7488.1	7668.8	7610.2	7331.7	6936.1	6535.6	6091.1	5807.8	5592.8	5509.8	5509.8
20°	7771.4	7859.3	7766.5	7195.0	6711.4	6183.9	5754.0	5431.6	5216.7	5182.5	5128.8
22.5°	7991.2	8132.8	7717.6	6994.7	6384.1	5724.7	5231.4	5109.3	5045.8	4992.0	4923.6
25°	8274.5	8269.6	7629.7	6809.1	5822.4	5177.6	4879.7	4869.9	4840.6	4821.1	4913.9
27.5°	8543.1	8430.8	7527.1	6349.9	5241.1	4762.5	4601.3	4708.7	4752.7	4723.4	4762.5
30°	8968.1	8782.5	7380.6	5861.5	4728.3	4342.4	4371.7	4518.2	4591.5	4635.5	4576.8
32.5°	9417.5	9134.2	7077.7	5353.5	4274.0	4078.6	4147.0	4298.4	4386.3	4435.2	4488.9
35°	10067.1	9407.7	6770.0	4689.2	3946.7	3917.4	3956.5	4039.5	4166.5	4200.7	4215.4
37.5°	10868.2	9822.9	6354.8	4156.8	3692.7	3726.9	3766.0	3795.3	3800.2	3863.7	3839.3
40°	11669.2	10174.6	5749.1	3648.8	3429.0	3614.6	3595.0	3541.3	3497.4	3438.7	3424.1
42.5°	12372.6	10482.3	5075.1	3218.9	3194.5	3497.4	3433.9	3297.1	3194.5	3150.5	3077.3
45°	13163.9	10917.0	4396.1	2950.3	3013.8	3355.7	3336.2	3126.1	2994.2	2837.9	2818.4
47.5°	14189.7	11371.3	3746.5	2671.9	2842.8	3302.0	3311.7	3043.1	2852.6	2642.6	2613.2
50°	15503.6	12025.8	3253.1	2554.6	2740.2	3223.8	3238.5	2930.7	2681.6	2466.7	2447.2
52.5°	16763.9	12695.0	2842.8	2373.9	2671.9	3131.0	3165.2	2828.2	2540.0	2271.3	2286.0
55°	17398.8	12450.8	2491.1	2242.0	2515.6	2979.6	3106.6	2754.9	2325.1	2139.4	2134.6
57.5°	17540.5	11850.0	2212.7	2105.3	2383.7	2818.4	3008.9	2535.1	2227.4	2071.1	2051.5
60°	17076.5	10799.8	1992.9	1958.7	2217.6	2652.3	2784.2	2417.9	2129.7	2002.7	1973.4
62.5°	15933.5	9710.5	1841.5	1890.3	2075.9	2471.6	2642.6	2334.8	2036.9	1948.9	1885.4
65°	13066.2	7986.3	1719.4	1758.4	1929.4	2295.7	2554.6	2242.0	1953.8	1870.8	1865.9
67.5°	9051.1	5504.9	1621.7	1694.9	1812.2	2168.8	2466.7	2139.4	1846.4	1817.1	1778.0
70°	4635.5	2935.6	1494.7	1553.3	1685.2	2007.6	2310.4	2032.0	1734.0	1729.1	1680.3
72.5°	2349.5	1719.4	1348.1	1436.1	1528.9	1797.5	2115.0	1890.3	1592.4	1538.6	1460.5
73°	2032.0	1592.4	1323.7	1401.9	1489.8	1738.9	2056.4	1856.1	1572.8	1494.7	1421.4
75°	1480.0	1255.3	1187.0	1265.1	1333.5	1567.9	1861.0	1699.8	1445.8	1362.8	1294.4
77.5°	1108.8	967.1	986.7	1074.6	1133.2	1353.0	1655.9	1538.6	1309.1	1196.7	1167.4
80°	815.7	737.6	815.7	898.8	942.7	1191.8	1509.3	1333.5	1103.9	976.9	952.5
82.5°	581.3	537.3	630.1	683.8	703.4	986.7	1357.9	1064.8	835.3	669.2	615.5
85°	332.2	327.3	425.0	420.1	434.7	576.4	893.9	708.3	537.3	410.3	400.5
87.5°	146.5	161.2	214.9	171.0	180.7	273.5	381.0	263.8	219.8	122.1	92.8
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)