

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: P478330

Luminaire Tested: **IFLD-S-SA6D-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478330
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

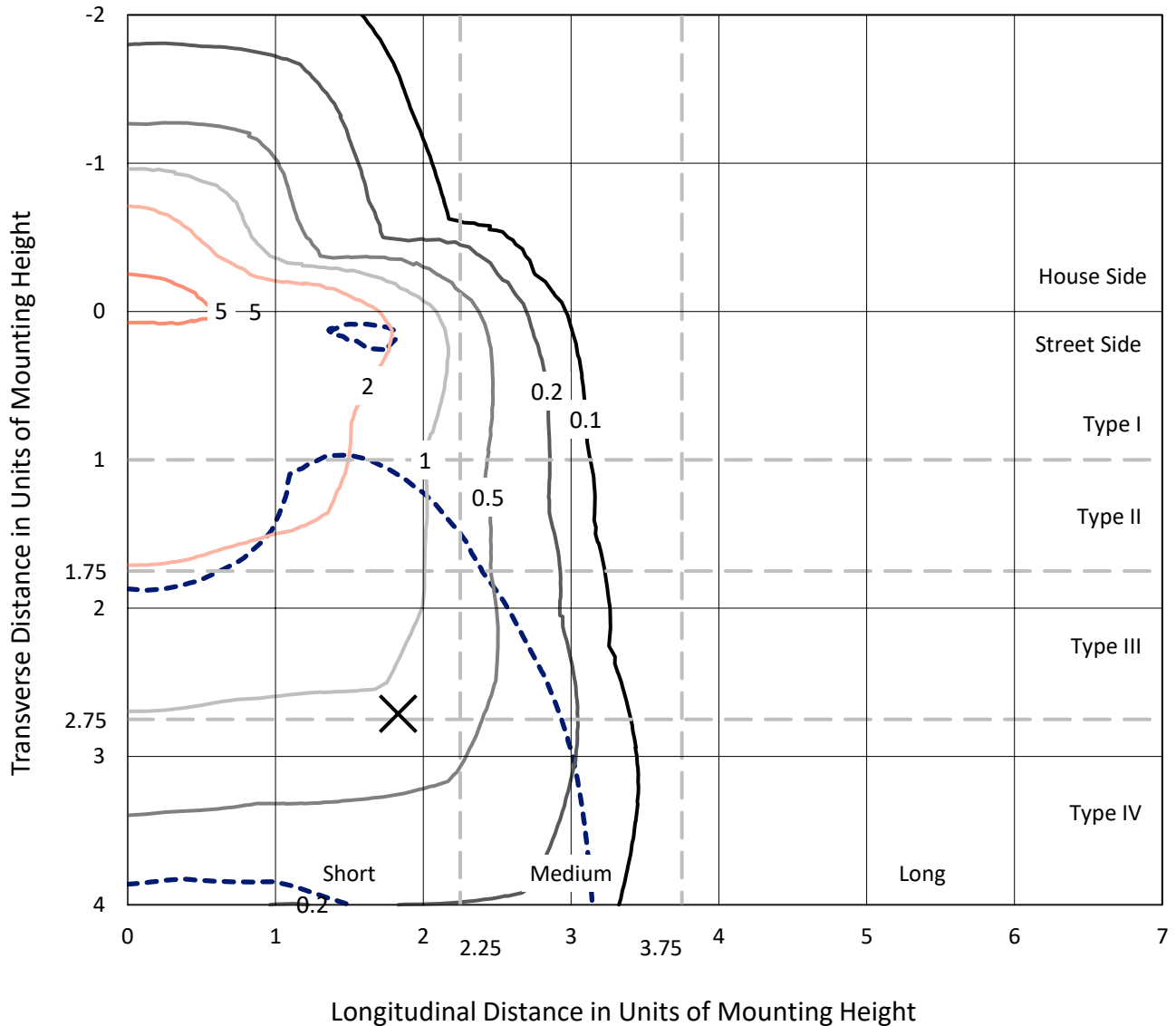
Lumens per Lamp: N/A
Luminaire Lumens: 37220.4 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

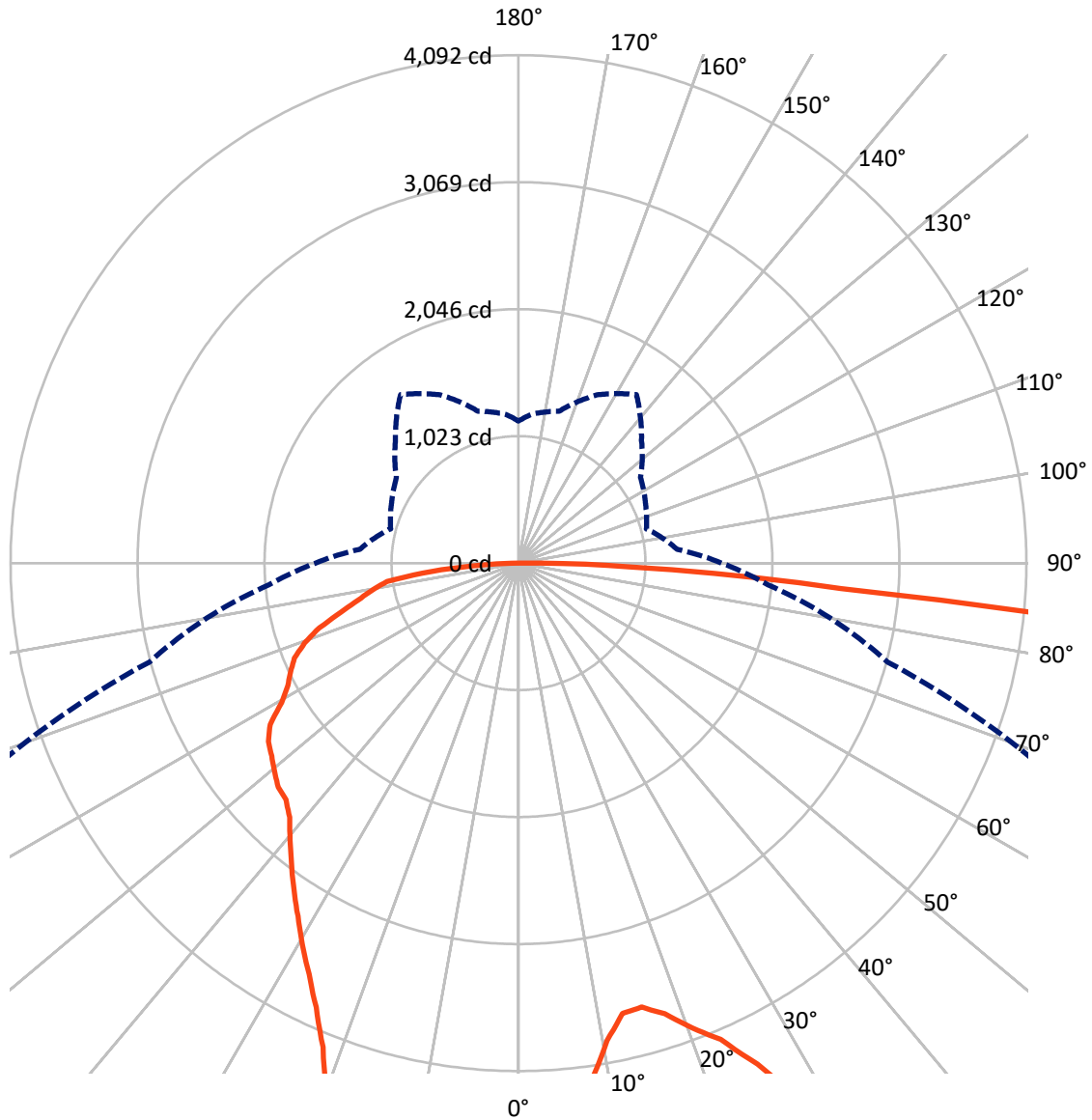
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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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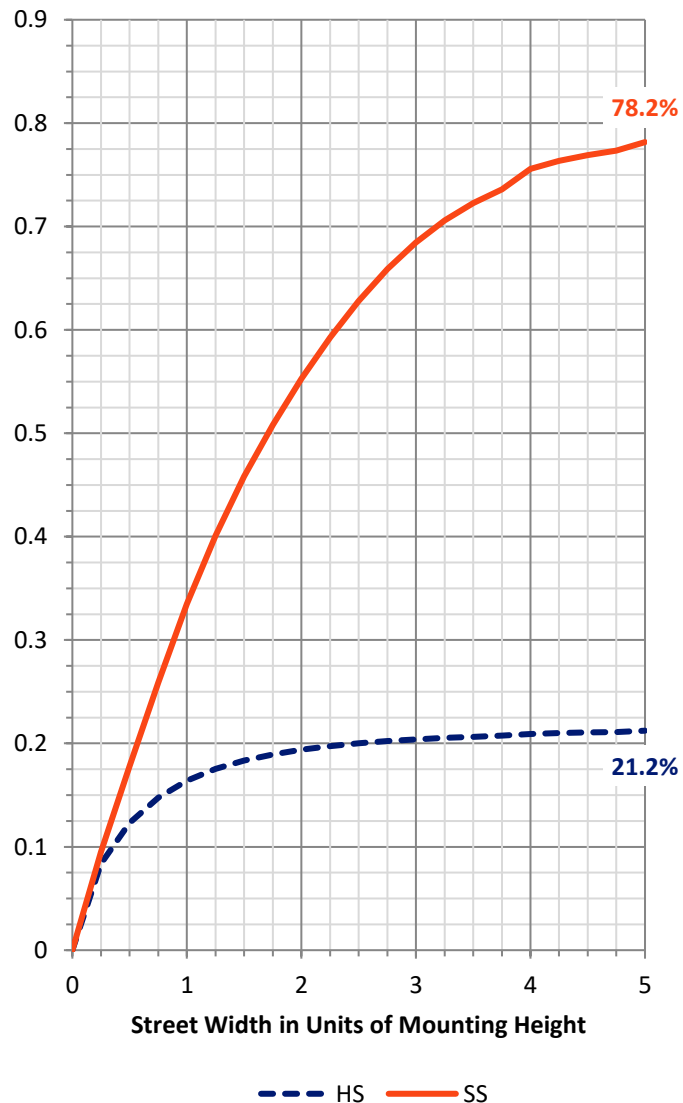
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8040.1	0.0	8040.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	29180.3	0.0	29180.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	37220.4	0.0	37220.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.5	1.3
10°-20°	1378.3	3.7
20°-30°	2268.5	6.1
30°-40°	3392.5	9.1
40°-50°	5029.2	13.5
50°-60°	7247.6	19.5
60°-70°	9249.0	24.8
70°-80°	7197.2	19.3
80°-90°	965.6	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°	37220.4	100.0
0°-180°	37220.4	100.0

Coefficient of Utilization



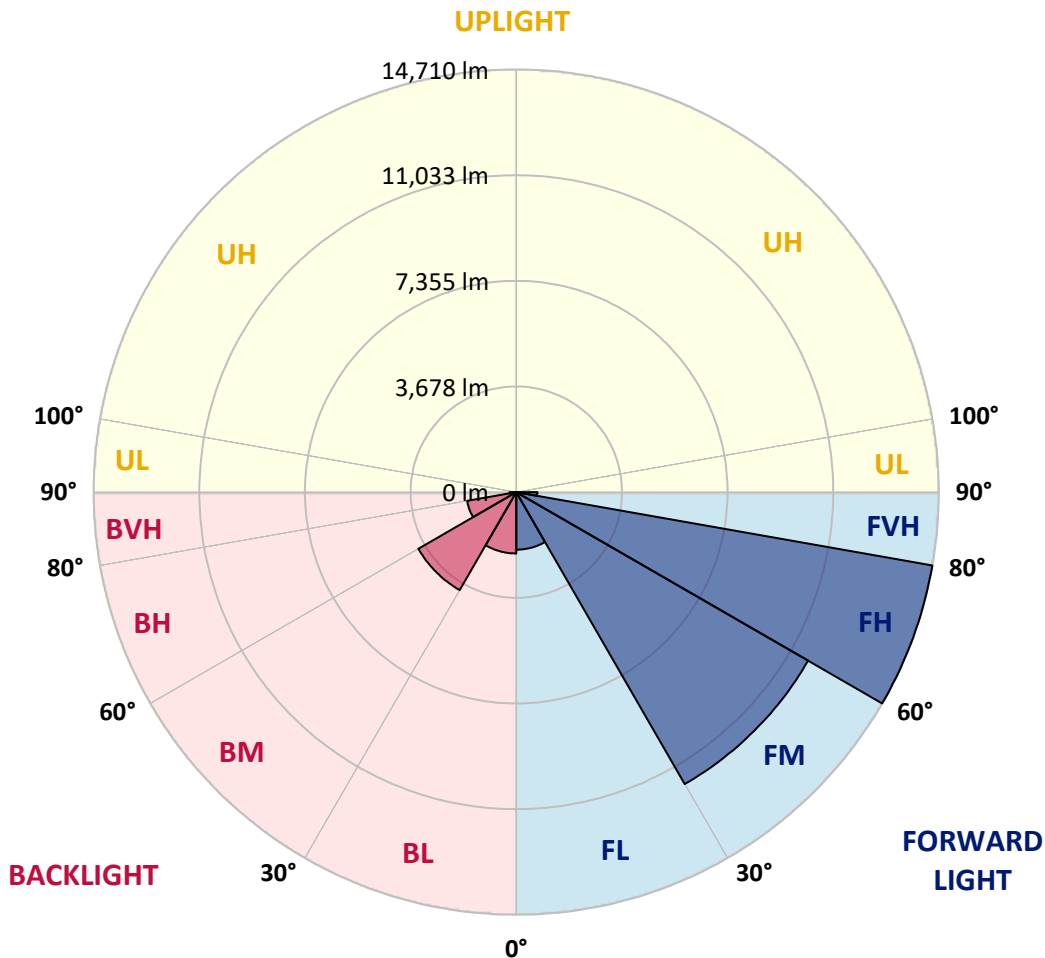
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2003.1	5.4			
FM (30°-60°)	11732.1	31.5			
FH (60°-80°)	14710.2	39.5			G5
FVH (80°-90°)	735.0	2.0			G4/750
BL (0°-30°)	2136.2	5.7	B3/2500		
BM (30°-60°)	3937.2	10.6	B3/5000		
BH (60°-80°)	1736.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	230.6	0.6			G3/500
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°	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1
2.5°	4781.3	4797.0	4848.2	4860.0	4915.1	4883.6	4950.5	5068.5	5135.4	5233.8	5351.9
5°	4403.5	4336.6	4368.1	4490.1	4553.0	4568.8	4639.6	4840.3	4966.2	5111.8	5332.2
7.5°	3958.8	3947.0	4010.0	4088.7	4214.6	4226.4	4383.8	4560.9	4820.6	5143.3	5403.0
10°	3655.8	3707.0	3742.4	3825.0	3911.6	3911.6	4112.3	4419.2	4714.4	5025.2	5418.8
12.5°	3640.1	3608.6	3616.4	3659.7	3722.7	3801.4	3990.3	4265.8	4639.6	5001.6	5485.7
15°	3691.2	3703.0	3632.2	3687.3	3710.9	3738.4	3947.0	4257.9	4592.4	5084.3	5599.8
17.5°	3962.7	3895.8	3785.7	3734.5	3817.1	3817.1	3958.8	4202.8	4600.2	5127.6	5765.1
20°	4175.2	4175.2	3994.2	3939.1	3998.2	3986.4	4084.7	4265.8	4639.6	5214.1	5950.0
22.5°	4533.3	4584.5	4285.4	4171.3	4167.4	4198.9	4285.4	4438.9	4749.8	5336.1	6127.1
25°	5048.9	5060.7	4714.4	4596.3	4470.4	4521.5	4537.3	4690.8	4848.2	5477.8	6327.8
27.5°	5623.4	5615.5	5296.8	5001.6	4919.0	4930.8	4844.2	4946.5	4993.8	5521.1	6615.1
30°	6260.9	6190.1	5950.0	5532.9	5466.0	5391.2	5202.3	5198.4	5296.8	5765.1	7012.5
32.5°	6678.0	6587.5	6422.2	6123.2	5938.2	5946.1	5647.0	5643.1	5556.5	6032.7	7358.8
35°	7087.3	6949.6	6906.3	6599.3	6414.4	6434.0	6194.0	6162.5	6005.1	6438.0	7929.4
37.5°	7579.2	7457.2	7524.1	7291.9	7063.7	6969.2	6859.0	6819.7	6615.1	7008.6	8708.6
40°	8122.2	8082.9	8039.6	7925.5	7787.7	7795.6	7677.6	7638.2	7335.2	7697.2	9456.3
42.5°	8854.2	8704.6	8480.3	8555.1	8625.9	8700.7	8661.4	8559.0	8244.2	8397.7	10290.5
45°	9535.0	9338.2	8925.0	8948.6	9239.8	9298.9	9775.0	9763.2	9129.6	9287.1	11238.9
47.5°	9995.4	9904.9	9657.0	9629.4	10046.6	10042.6	10900.5	10900.5	10062.3	10172.5	12258.1
50°	10680.1	10444.0	10337.8	10475.5	10688.0	10833.6	12049.6	12124.3	10979.2	11097.2	13592.2
52.5°	11482.9	11187.8	10920.2	11274.3	11652.1	11746.6	13186.8	13155.4	11683.6	12171.6	15154.4
55°	12147.9	11998.4	11813.5	12018.1	12635.9	12754.0	14328.0	14036.8	12388.0	13060.9	15906.1
57.5°	12923.2	13013.7	13053.0	13001.9	13737.8	13922.7	15630.6	14796.3	12994.0	13659.1	16346.8
60°	14091.9	14147.0	14198.2	14320.2	15099.3	15359.1	16661.6	15748.6	13375.7	14005.4	16382.2
62.5°	15870.6	15658.1	15772.3	16193.3	16819.0	17114.2	18180.6	16417.6	13666.9	14213.9	15225.3
65°	17905.1	17617.9	17499.8	18042.9	19664.2	19428.1	20077.4	16917.4	13245.9	13434.8	12911.4
67.5°	19967.2	19998.7	19695.6	20785.7	22773.0	22773.0	21840.3	17157.4	12104.7	10888.7	9054.9
70°	21604.2	21702.6	21867.9	23981.1	27129.2	27605.4	24024.4	16173.6	9779.0	7248.6	4950.5
72.5°	21580.6	21285.5	22131.5	26023.4	31088.0	30690.6	24480.8	12789.4	6103.5	3549.5	2270.6
73°	21096.6	20848.7	21773.4	26003.8	31249.4	30875.5	24146.3	11789.8	5383.3	3077.3	2018.8
75°	17228.3	16779.7	18353.7	23552.1	28911.9	29199.1	20514.2	7689.4	2951.4	1896.8	1420.6
77.5°	7854.6	8051.4	10101.6	15799.8	22281.1	22619.5	13485.9	3325.2	1617.4	1330.1	1046.8
80°	2522.5	2648.4	3931.3	7854.6	13966.0	14576.0	6233.3	1511.1	1153.0	1019.2	783.1
82.5°	964.1	960.2	1648.8	3266.2	6619.0	7008.6	2278.5	920.8	857.9	751.6	554.9
85°	338.4	354.2	621.8	1290.7	2605.1	2727.1	791.0	511.6	594.2	503.7	318.8
87.5°	118.1	122.0	220.4	468.3	897.2	948.4	220.4	204.6	295.1	291.2	161.3
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°	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1	5336.1
2.5°	5391.2	5426.6	5438.4	5580.1	5580.1	5580.1	5635.2	5635.2	5619.5	5580.1	5674.5
5°	5414.8	5477.8	5599.8	5721.8	5753.3	5780.8	5855.6	5792.6	5816.2	5776.9	5812.3
7.5°	5481.7	5568.3	5796.5	5871.3	5820.2	5879.2	5800.5	5757.2	5713.9	5729.6	5674.5
10°	5595.8	5706.0	5812.3	5950.0	5851.6	5792.6	5631.3	5591.9	5454.2	5407.0	5450.2
12.5°	5737.5	5871.3	6052.3	6001.2	5812.3	5643.1	5469.9	5304.6	5222.0	5103.9	5135.4
15°	5879.2	6032.7	6060.2	5973.6	5737.5	5525.0	5210.2	4978.0	4895.4	4789.1	4844.2
17.5°	6032.7	6178.3	6131.0	5906.7	5588.0	5265.3	4907.2	4678.9	4505.8	4438.9	4438.9
20°	6260.9	6331.7	6257.0	5796.5	5407.0	4982.0	4635.7	4375.9	4202.8	4175.2	4132.0
22.5°	6438.0	6552.1	6217.6	5635.2	5143.3	4612.0	4214.6	4116.2	4065.1	4021.8	3966.7
25°	6666.2	6662.3	6146.8	5485.7	4690.8	4171.3	3931.3	3923.4	3899.8	3884.0	3958.8
27.5°	6882.7	6792.1	6064.1	5115.8	4222.5	3836.8	3707.0	3793.5	3828.9	3805.3	3836.8
30°	7225.0	7075.5	5946.1	4722.2	3809.3	3498.4	3522.0	3640.1	3699.1	3734.5	3687.3
32.5°	7587.1	7358.8	5702.1	4313.0	3443.3	3285.9	3341.0	3463.0	3533.8	3573.2	3616.4
35°	8110.4	7579.2	5454.2	3777.8	3179.6	3156.0	3187.5	3254.4	3356.7	3384.3	3396.1
37.5°	8755.8	7913.7	5119.7	3348.9	2975.0	3002.6	3034.0	3057.6	3061.6	3112.7	3093.1
40°	9401.2	8197.0	4631.7	2939.6	2762.5	2912.0	2896.3	2853.0	2817.6	2770.4	2758.6
42.5°	9967.8	8444.9	4088.7	2593.3	2573.6	2817.6	2766.4	2656.3	2573.6	2538.2	2479.2
45°	10605.3	8795.2	3541.7	2376.9	2428.0	2703.5	2687.7	2518.5	2412.3	2286.3	2270.6
47.5°	11431.7	9161.1	3018.3	2152.6	2290.3	2660.2	2668.1	2451.6	2298.2	2128.9	2105.3
50°	12490.3	9688.4	2620.8	2058.1	2207.6	2597.2	2609.0	2361.1	2160.4	1987.3	1971.5
52.5°	13505.6	10227.6	2290.3	1912.5	2152.6	2522.5	2550.0	2278.5	2046.3	1829.9	1841.7
55°	14017.2	10030.8	2006.9	1806.3	2026.6	2400.5	2502.8	2219.4	1873.2	1723.6	1719.7
57.5°	14131.3	9546.8	1782.6	1696.1	1920.4	2270.6	2424.1	2042.4	1794.4	1668.5	1652.8
60°	13757.4	8700.7	1605.6	1578.0	1786.6	2136.8	2243.1	1947.9	1715.7	1613.4	1589.8
62.5°	12836.6	7823.2	1483.6	1522.9	1672.5	1991.2	2128.9	1881.0	1641.0	1570.1	1519.0
65°	10526.6	6434.0	1385.2	1416.7	1554.4	1849.5	2058.1	1806.3	1574.1	1507.2	1503.2
67.5°	7291.9	4435.0	1306.5	1365.5	1460.0	1747.2	1987.3	1723.6	1487.5	1463.9	1432.4
70°	3734.5	2365.1	1204.2	1251.4	1357.6	1617.4	1861.3	1637.0	1397.0	1393.1	1353.7
72.5°	1892.8	1385.2	1086.1	1156.9	1231.7	1448.2	1703.9	1522.9	1282.9	1239.6	1176.6
73°	1637.0	1282.9	1066.4	1129.4	1200.2	1400.9	1656.7	1495.4	1267.1	1204.2	1145.1
75°	1192.4	1011.3	956.3	1019.2	1074.3	1263.2	1499.3	1369.4	1164.8	1097.9	1042.8
77.5°	893.3	779.2	794.9	865.7	913.0	1090.0	1334.0	1239.6	1054.6	964.1	940.5
80°	657.2	594.2	657.2	724.1	759.5	960.2	1216.0	1074.3	889.4	787.0	767.4
82.5°	468.3	432.9	507.6	550.9	566.7	794.9	1094.0	857.9	672.9	539.1	495.8
85°	267.6	263.7	342.4	338.4	350.2	464.4	720.1	570.6	432.9	330.6	322.7
87.5°	118.1	129.9	173.1	137.7	145.6	220.4	306.9	212.5	177.1	98.4	74.8
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)