

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: P478486

Luminaire Tested: **IFLD-S-SA6D-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478486
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

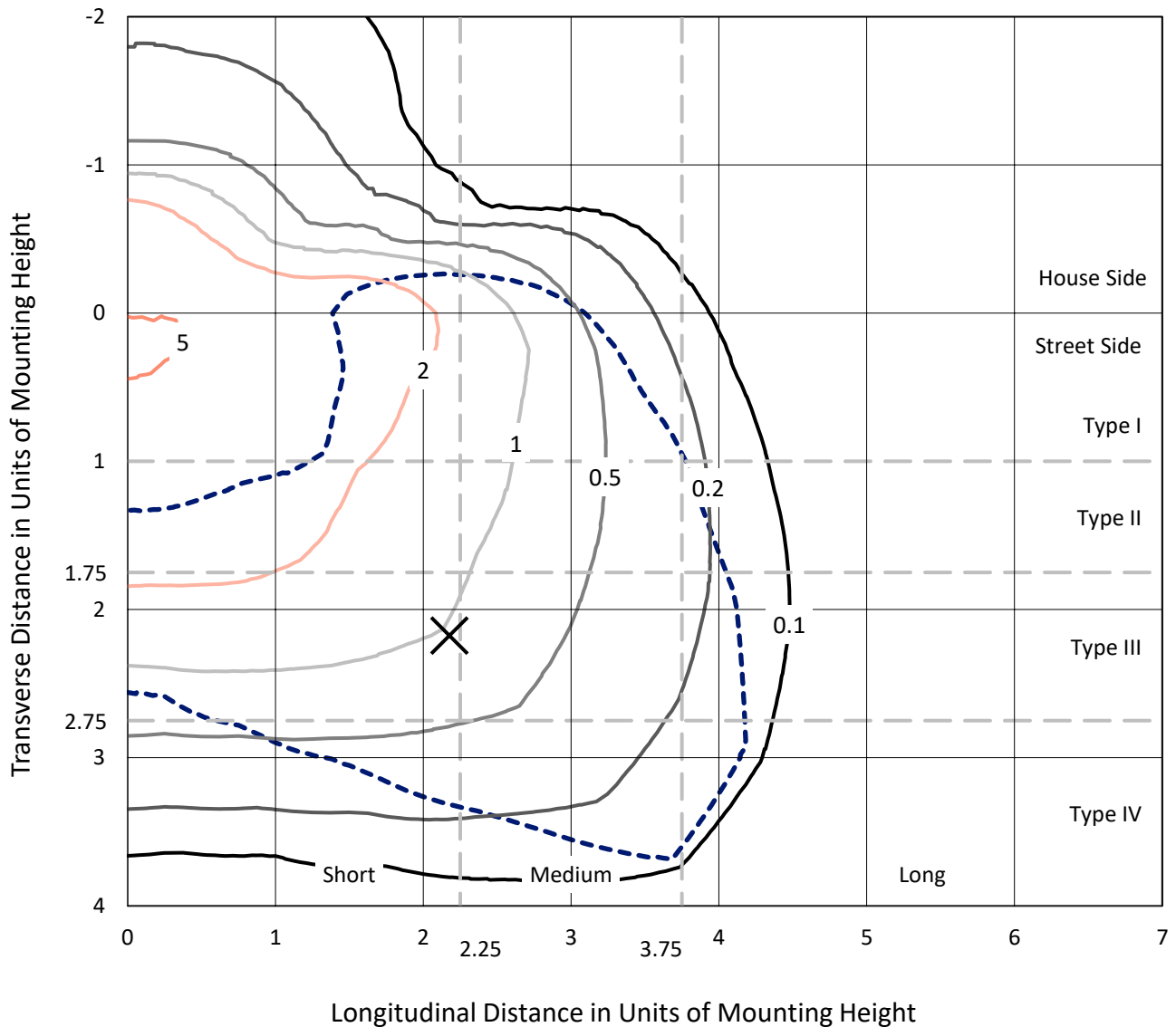
Lumens per Lamp: N/A
Luminaire Lumens: 42083.1 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

REPORT NUMBER: P478486
 CATALOG NUMBER: IFLD-S-SA6D-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

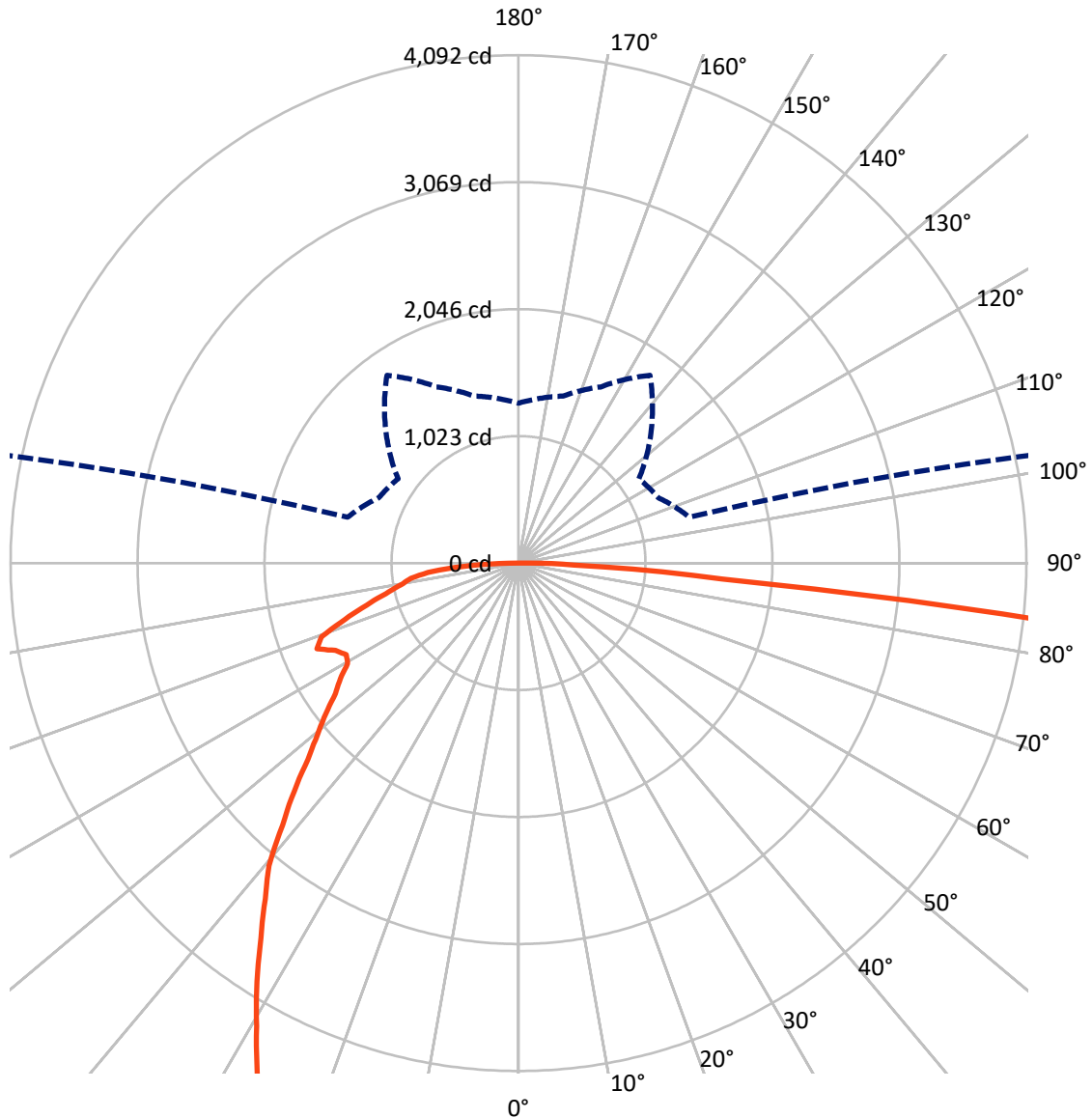
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P478486
CATALOG NUMBER: IFLD-S-SA6D-730-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478486
 CATALOG NUMBER: IFLD-S-SA6D-730-U-T4W

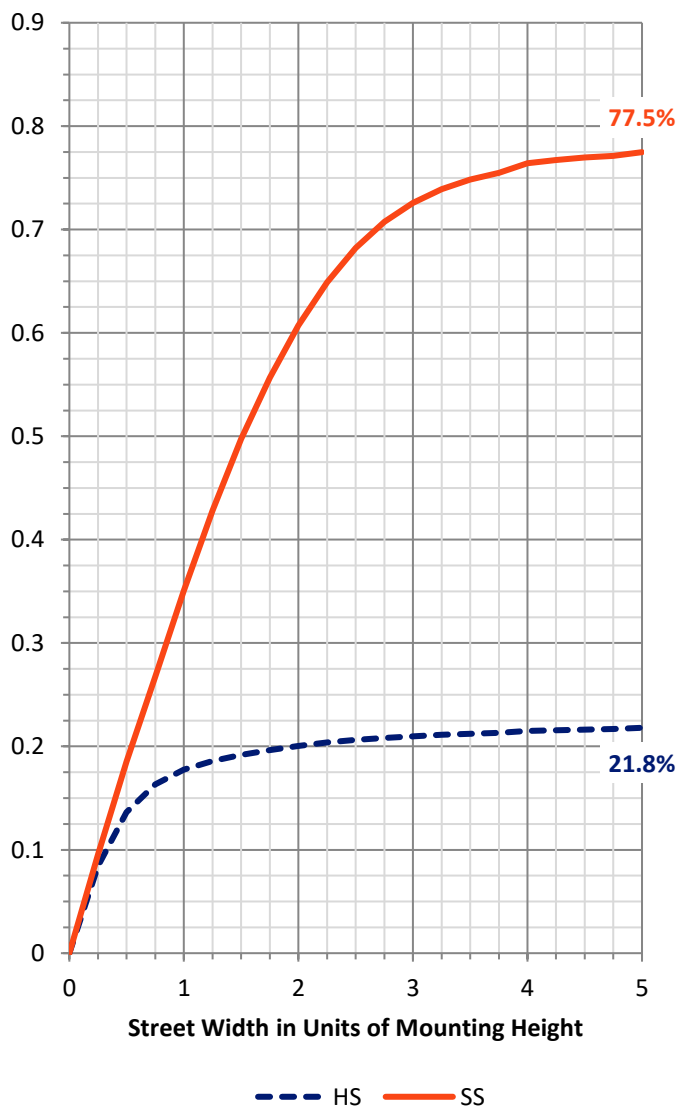
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9367.9	0.0	9367.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	32715.2	0.0	32715.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	42083.1	0.0	42083.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.5	1.1
10°-20°	1475.4	3.5
20°-30°	2491.6	5.9
30°-40°	3448.0	8.2
40°-50°	4932.0	11.7
50°-60°	7954.8	18.9
60°-70°	11732.2	27.9
70°-80°	8519.6	20.2
80°-90°	1086.0	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°	42083.1	100.0
0°-180°	42083.1	100.0

Coefficient of Utilization



REPORT NUMBER: P478486

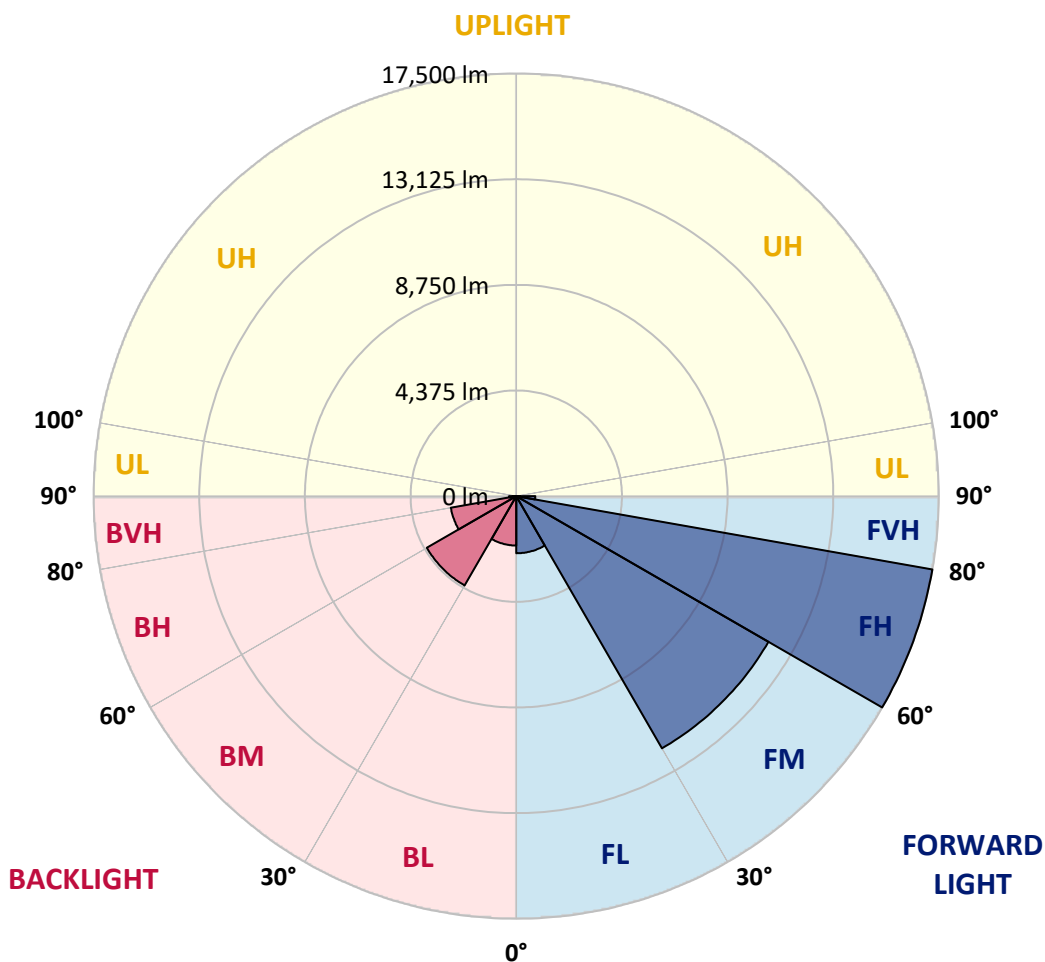
CATALOG NUMBER: IFLD-S-SA6D-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2365.1	5.6			
FM (30°-60°)	12059.6	28.7			
FH (60°-80°)	17500.0	41.6			G5
FVH (80°-90°)	790.5	1.9			G5
BL (0°-30°)	2045.4	4.9	B3/2500		
BM (30°-60°)	4275.2	10.2	B3/5000		
BH (60°-80°)	2751.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	295.6	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: P478486
 CATALOG NUMBER: IFLD-S-SA6D-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8
2.5°	4565.2	4592.5	4565.2	4560.7	4515.3	4483.6	4510.8	4469.9	4424.6	4406.4	4365.6
5°	4982.7	4987.3	4937.4	4941.9	4846.6	4746.8	4764.9	4642.4	4510.8	4460.9	4379.2
7.5°	5409.3	5359.4	5286.8	5264.1	5114.3	5005.4	4991.8	4882.9	4678.7	4565.2	4451.8
10°	5686.1	5704.3	5586.3	5486.5	5359.4	5227.8	5223.2	5019.0	4901.1	4733.1	4587.9
12.5°	5931.2	5935.7	5835.9	5677.0	5518.2	5354.9	5377.5	5286.8	5087.1	4928.3	4783.1
15°	6121.8	6094.5	5985.6	5840.4	5672.5	5545.4	5531.8	5454.7	5286.8	5155.2	4914.7
17.5°	6176.2	6162.6	6053.7	5899.4	5736.0	5640.7	5677.0	5550.0	5481.9	5363.9	5132.5
20°	6071.9	6040.1	6021.9	5849.5	5731.5	5722.4	5690.7	5717.9	5604.4	5495.5	5327.6
22.5°	5881.3	5867.6	5858.6	5722.4	5668.0	5708.8	5763.3	5804.1	5786.0	5681.6	5491.0
25°	5686.1	5749.7	5690.7	5627.1	5704.3	5808.7	5795.0	5926.6	5926.6	5894.9	5736.0
27.5°	5822.3	5781.4	5736.0	5704.3	5731.5	5894.9	5885.8	6044.6	6103.6	6044.6	5863.1
30°	6162.6	6121.8	5990.2	5849.5	5813.2	5990.2	6035.6	6176.2	6203.5	6058.2	5904.0
32.5°	6802.5	6779.8	6571.0	6158.1	5935.7	6035.6	6058.2	6217.1	6194.4	6103.6	6040.1
35°	7750.9	7673.8	7383.3	6684.5	6194.4	6094.5	6035.6	6162.6	6248.8	6203.5	6144.5
37.5°	8790.1	8703.9	8345.4	7460.5	6661.8	6253.4	6208.0	6312.4	6412.2	6389.5	6267.0
40°	9783.9	9783.9	9461.7	8431.6	7356.1	6639.1	6648.2	6530.2	6621.0	6580.1	6602.8
42.5°	10764.2	10727.9	10596.3	9570.7	8100.3	7283.5	7138.3	6843.3	7006.7	6993.1	7024.8
45°	11758.0	11730.8	11694.5	10632.6	9166.8	8154.8	8077.7	7546.7	7696.5	7632.9	7769.1
47.5°	12552.1	12583.9	12583.9	11817.0	10305.8	9316.5	9203.1	8363.6	8649.4	8681.2	8713.0
50°	13228.3	13241.9	13228.3	12946.9	11576.5	10646.2	10414.7	9561.6	9847.5	10097.1	10387.5
52.5°	14163.1	14181.3	14117.7	14008.8	13300.9	12043.9	11785.2	10836.8	11422.2	11685.4	12207.2
55°	15315.8	15179.6	15061.7	15143.3	14957.3	13582.3	13314.5	12152.8	13033.2	13382.6	14426.3
57.5°	15529.1	15647.1	15946.6	16595.5	16863.2	15079.8	14925.5	13768.3	14852.9	15157.0	16899.5
60°	16282.4	16087.2	16822.4	18229.2	18528.7	17031.1	16872.3	15538.1	16663.6	16981.2	19182.2
62.5°	16777.0	16767.9	17857.1	19527.1	20207.8	19055.1	18732.9	17838.9	18619.5	18928.0	21669.0
65°	16631.8	16763.4	18696.6	20289.4	21610.0	21355.9	21169.8	19817.5	20847.6	20820.4	23289.1
67.5°	15306.7	15678.8	18165.7	20838.5	23697.5	24160.4	24101.4	22599.3	22658.3	22082.0	24010.6
70°	13468.8	13341.7	15919.3	20266.7	24741.2	27486.7	27473.1	24668.6	24287.4	22358.8	21941.3
72°	10346.7	10206.0	12325.2	17403.3	24192.1	28816.4	29224.8	26102.6	24269.3	21210.7	18124.8
72.5°	9393.7	9271.2	11381.3	16382.2	23584.0	29161.2	28970.7	26157.1	24078.7	20670.6	16931.3
75°	4324.7	4184.0	5686.1	10029.0	18397.1	25839.4	26488.4	24478.0	21029.1	16454.8	10142.5
77.5°	1288.8	1248.0	1828.8	4047.9	10691.5	19036.9	19286.5	18469.7	14680.5	9012.5	3762.0
80°	717.0	721.5	943.9	1515.7	4701.4	11004.7	11903.2	11408.6	7201.8	2976.9	1252.5
82.5°	399.3	422.0	589.9	898.5	2160.1	5050.8	5436.5	5241.4	2604.8	1397.7	685.2
85°	208.7	217.8	308.6	481.0	1225.3	1597.4	1642.8	1760.7	1352.3	953.0	367.6
87.5°	81.7	81.7	113.5	199.7	453.8	494.6	444.7	540.0	776.0	617.2	181.5
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°	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8	4333.8
2.5°	4401.9	4365.6	4361.0	4302.0	4320.2	4270.3	4274.8	4265.7	4270.3	4261.2	4238.5
5°	4379.2	4352.0	4274.8	4324.7	4279.3	4342.9	4392.8	4374.6	4388.3	4383.7	4388.3
7.5°	4410.9	4374.6	4365.6	4338.3	4379.2	4406.4	4447.2	4560.7	4551.6	4565.2	4592.5
10°	4506.2	4465.4	4438.2	4479.0	4456.3	4542.5	4587.9	4646.9	4751.3	4755.8	4701.4
12.5°	4692.3	4665.1	4610.6	4619.7	4696.8	4724.1	4751.3	4787.6	4855.7	4842.1	4892.0
15°	4905.6	4846.6	4814.8	4805.8	4823.9	4855.7	4851.1	4887.4	4923.7	4955.5	4941.9
17.5°	5059.9	4982.7	4991.8	5037.2	5032.7	5023.6	4964.6	4946.4	4964.6	4982.7	4973.7
20°	5218.7	5227.8	5159.7	5118.9	5100.7	5010.0	4964.6	4910.1	4855.7	4882.9	4923.7
22.5°	5418.4	5377.5	5277.7	5155.2	5064.4	5010.0	4869.3	4774.0	4774.0	4801.2	4787.6
25°	5645.3	5559.1	5386.6	5164.3	5050.8	4819.4	4719.5	4705.9	4669.6	4710.5	4728.6
27.5°	5822.3	5745.1	5509.1	5132.5	4819.4	4633.3	4574.3	4556.2	4615.2	4619.7	4692.3
30°	5894.9	5872.2	5527.3	5050.8	4583.4	4283.9	4247.6	4329.3	4392.8	4488.1	4492.6
32.5°	5990.2	5999.2	5554.5	4860.2	4274.8	3975.3	3920.8	4020.7	4202.2	4279.3	4338.3
35°	6149.0	6194.4	5531.8	4624.2	3948.1	3662.2	3653.1	3680.3	3857.3	3993.4	4070.6
37.5°	6425.8	6416.7	5527.3	4342.9	3689.4	3389.9	3317.3	3326.4	3444.3	3557.8	3544.2
40°	6797.9	6761.6	5513.7	3975.3	3353.6	3158.5	3035.9	2990.5	2981.5	2949.7	2958.8
42.5°	7306.2	7233.6	5509.1	3603.2	3049.5	2840.8	2754.6	2636.6	2550.4	2387.0	2396.1
45°	8014.1	7887.1	5391.2	3253.8	2750.0	2577.6	2446.0	2359.8	2173.7	1969.5	1969.5
47.5°	9107.8	8694.8	5395.7	2868.0	2459.6	2318.9	2228.2	2078.4	1878.7	1715.4	1697.2
50°	10718.8	9774.9	5241.4	2564.0	2223.6	2128.3	2033.0	1860.6	1670.0	1556.5	1570.2
52.5°	12797.2	11385.9	5236.9	2291.7	2037.6	1969.5	1865.1	1710.8	1570.2	1497.5	1470.3
55°	15274.9	13518.7	5400.2	2069.3	1847.0	1810.7	1765.3	1638.2	1502.1	1438.5	1434.0
57.5°	17811.7	15601.7	5663.4	1910.5	1683.6	1710.8	1679.1	1579.2	1470.3	1397.7	1388.6
60°	20067.1	17253.5	5132.5	1719.9	1538.4	1597.4	1642.8	1556.5	1497.5	1493.0	1461.2
62.5°	21768.8	17961.4	3902.7	1574.7	1461.2	1570.2	1692.7	1747.1	1719.9	1756.2	1760.7
65°	22390.5	17534.9	2686.5	1497.5	1402.2	1633.7	1906.0	1887.8	1729.0	1660.9	1697.2
67.5°	21519.2	15805.9	1992.2	1406.8	1361.4	1765.3	2028.5	1801.6	1561.1	1552.0	1524.8
70°	18506.0	13396.2	1624.6	1311.5	1293.3	1692.7	1974.0	1670.0	1470.3	1411.3	1384.1
72°	14744.0	10432.9	1424.9	1243.4	1184.4	1511.2	1847.0	1565.6	1393.2	1320.6	1288.8
72.5°	13459.7	9670.5	1397.7	1211.6	1161.7	1470.3	1783.4	1533.8	1375.0	1311.5	1261.6
75°	7383.3	4951.0	1229.8	1111.8	980.2	1270.6	1651.8	1438.5	1297.9	1207.1	1198.0
77.5°	2745.5	1919.6	1061.9	984.7	848.6	1098.2	1502.1	1365.9	1179.9	1066.4	1043.7
80°	1052.8	1012.0	866.8	830.5	712.5	962.1	1384.1	1225.3	1002.9	889.4	853.1
82.5°	639.9	589.9	658.0	648.9	544.6	875.8	1302.4	1148.1	889.4	721.5	698.9
85°	349.4	349.4	458.3	440.2	381.2	698.9	984.7	762.4	562.7	462.9	472.0
87.5°	154.3	181.5	245.1	231.4	208.7	394.8	481.0	403.9	281.4	190.6	204.2
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)