

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: P478462

Luminaire Tested: **IFLD-L-SA8D-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478462
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

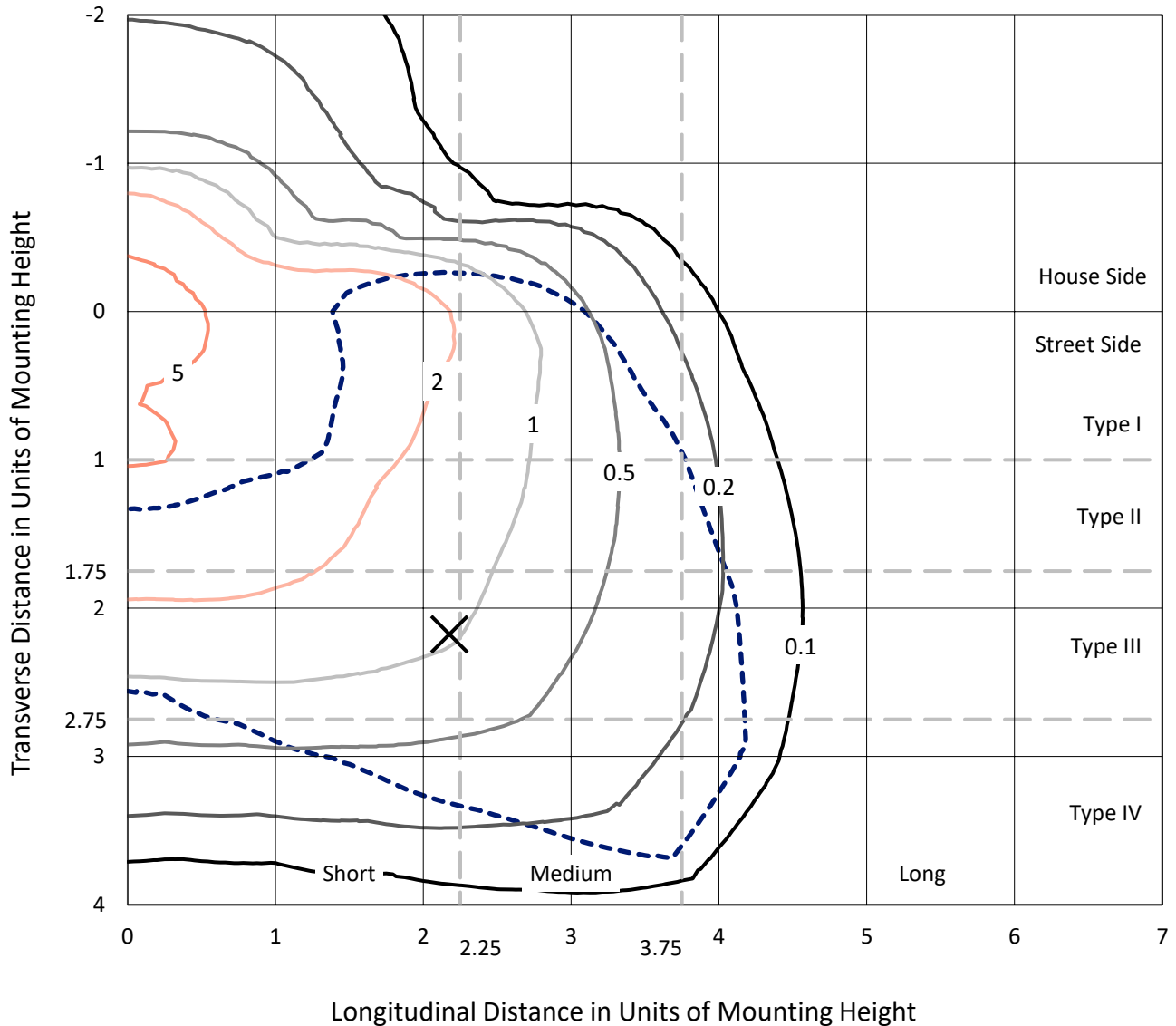
Lumens per Lamp: N/A
Luminaire Lumens: 47124.3 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3
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

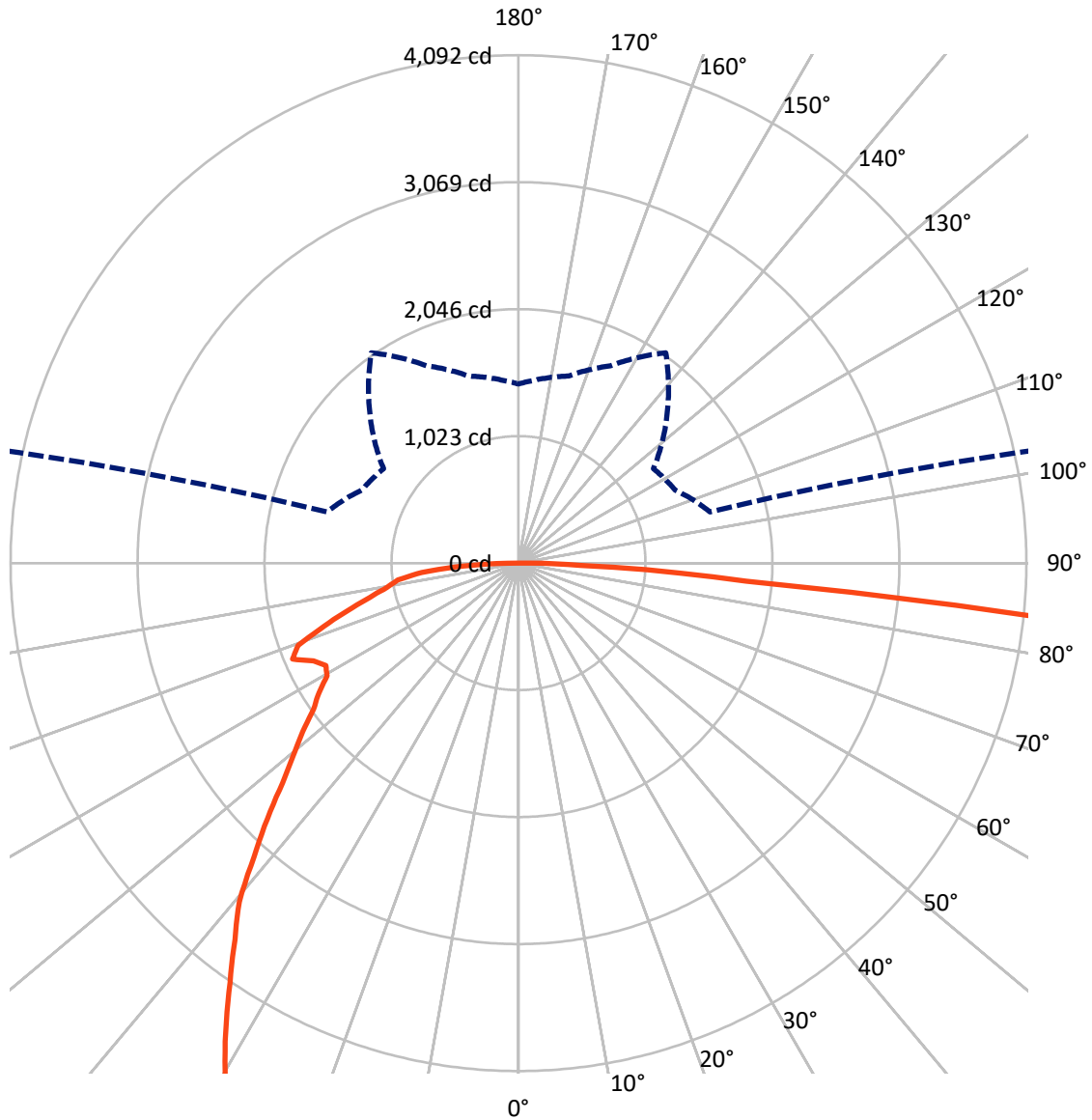
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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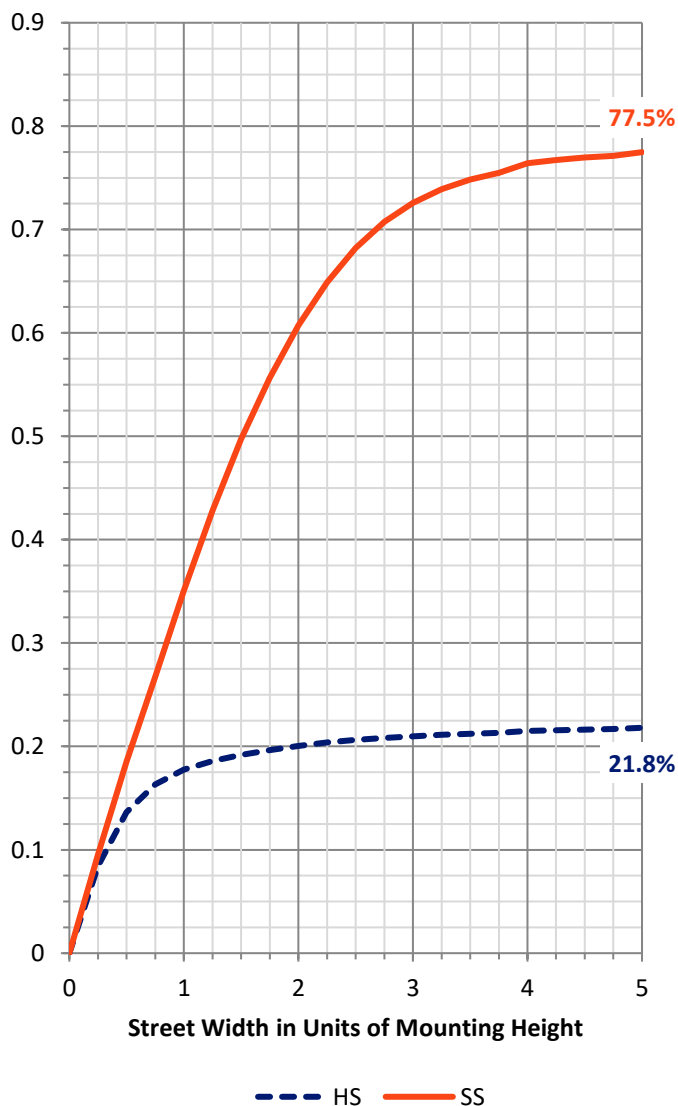
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10490.2	0.0	10490.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	36634.2	0.0	36634.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	47124.3	0.0	47124.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.6	1.1
10°-20°	1652.2	3.5
20°-30°	2790.1	5.9
30°-40°	3861.0	8.2
40°-50°	5522.8	11.7
50°-60°	8907.7	18.9
60°-70°	13137.6	27.9
70°-80°	9540.2	20.2
80°-90°	1216.1	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°	47124.3	100.0
0°-180°	47124.3	100.0

Coefficient of Utilization



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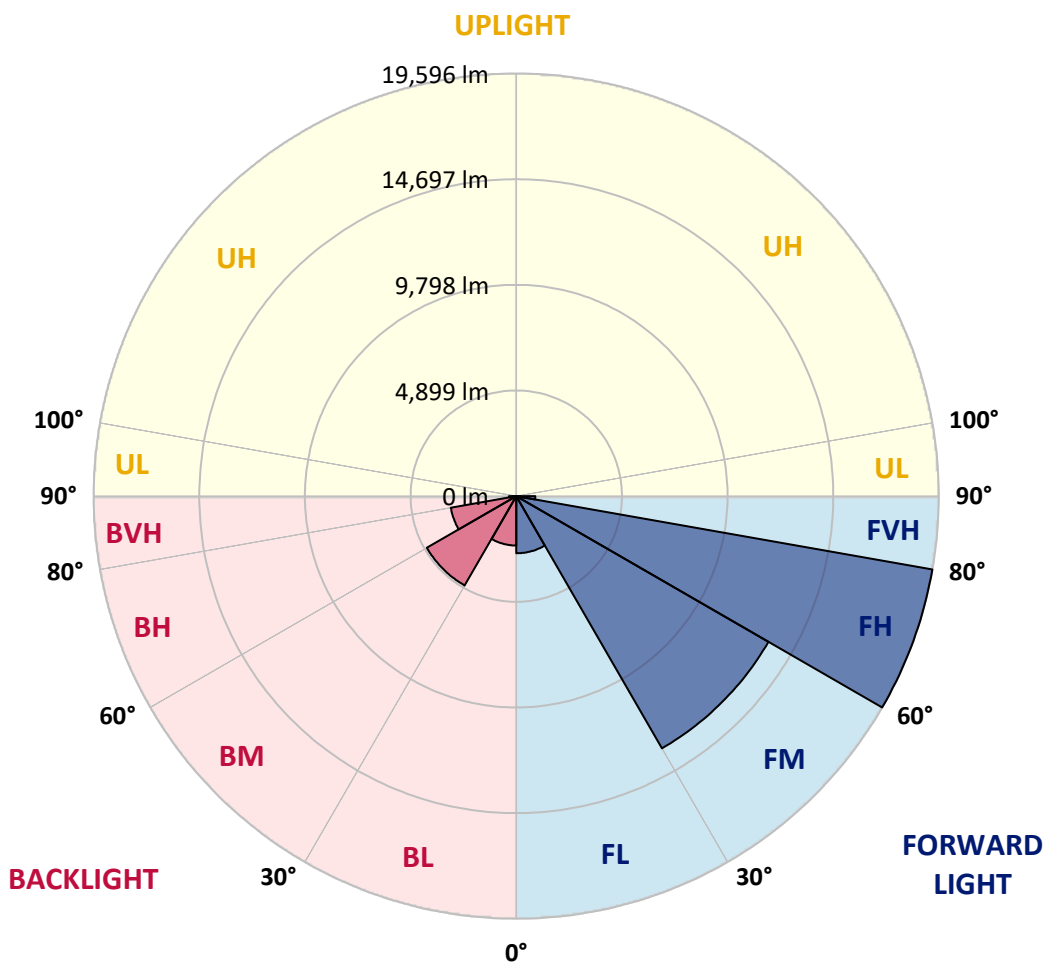
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2648.4	5.6			
FM (30°-60°)	13504.2	28.7			
FH (60°-80°)	19596.4	41.6			G5
FVH (80°-90°)	885.2	1.9			G5
BL (0°-30°)	2290.5	4.9	B3/2500		
BM (30°-60°)	4787.4	10.2	B3/5000		
BH (60°-80°)	3081.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	331.0	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°	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0
2.5°	5112.1	5142.6	5112.1	5107.0	5056.2	5020.6	5051.1	5005.4	4954.6	4934.3	4888.5
5°	5579.6	5584.7	5528.8	5533.9	5427.2	5315.4	5335.7	5198.5	5051.1	4995.2	4903.8
7.5°	6057.3	6001.4	5920.1	5894.7	5727.0	5605.0	5589.8	5467.8	5239.2	5112.1	4985.1
10°	6367.3	6387.6	6255.5	6143.7	6001.4	5854.0	5849.0	5620.3	5488.2	5300.1	5137.5
12.5°	6641.7	6646.8	6535.0	6357.1	6179.3	5996.3	6021.7	5920.1	5696.5	5518.6	5356.0
15°	6855.1	6824.6	6702.7	6540.1	6352.0	6209.7	6194.5	6108.1	5920.1	5772.7	5503.4
17.5°	6916.1	6900.8	6778.9	6606.1	6423.2	6316.5	6357.1	6214.8	6138.6	6006.5	5747.3
20°	6799.2	6763.6	6743.3	6550.2	6418.1	6407.9	6372.4	6402.8	6275.8	6153.8	5965.8
22.5°	6585.8	6570.5	6560.4	6407.9	6347.0	6392.7	6453.7	6499.4	6479.1	6362.2	6148.8
25°	6367.3	6438.4	6372.4	6301.2	6387.6	6504.5	6489.2	6636.6	6636.6	6601.0	6423.2
27.5°	6519.7	6474.0	6423.2	6387.6	6418.1	6601.0	6590.9	6768.7	6834.8	6768.7	6565.5
30°	6900.8	6855.1	6707.7	6550.2	6509.6	6707.7	6758.6	6916.1	6946.6	6784.0	6611.2
32.5°	7617.4	7591.9	7358.2	6895.8	6646.8	6758.6	6784.0	6961.8	6936.4	6834.8	6763.6
35°	8679.4	8593.0	8267.8	7485.2	6936.4	6824.6	6758.6	6900.8	6997.4	6946.6	6880.5
37.5°	9843.1	9746.6	9345.1	8354.2	7459.8	7002.5	6951.7	7068.5	7180.3	7154.9	7017.7
40°	10956.0	10956.0	10595.2	9441.7	8237.3	7434.4	7444.6	7312.5	7414.1	7368.4	7393.8
42.5°	12053.6	12013.0	11865.6	10717.1	9070.7	8156.0	7993.4	7663.1	7846.0	7830.8	7866.4
45°	13166.5	13136.0	13095.4	11906.3	10264.9	9131.7	9045.3	8450.7	8618.4	8547.3	8699.7
47.5°	14055.8	14091.3	14091.3	13232.6	11540.4	10432.6	10305.5	9365.4	9685.6	9721.2	9756.7
50°	14812.9	14828.2	14812.9	14497.9	12963.2	11921.5	11662.3	10707.0	11027.1	11306.6	11631.8
52.5°	15859.8	15880.1	15808.9	15687.0	14894.2	13486.6	13197.0	12134.9	12790.5	13085.2	13669.6
55°	17150.5	16998.0	16865.9	16957.4	16749.0	15209.3	14909.5	13608.6	14594.4	14985.7	16154.5
57.5°	17389.3	17521.4	17856.8	18583.5	18883.3	16886.2	16713.5	15417.7	16632.2	16972.6	18924.0
60°	18232.9	18014.4	18837.6	20412.9	20748.3	19071.3	18893.5	17399.5	18659.7	19015.4	21480.0
62.5°	18786.8	18776.6	19996.2	21866.2	22628.5	21337.7	20977.0	19975.9	20849.9	21195.5	24264.8
65°	18624.2	18771.5	20936.3	22720.0	24198.7	23914.1	23705.8	22191.5	23345.0	23314.5	26078.9
67.5°	17140.3	17557.0	20341.7	23334.8	26536.3	27054.6	26988.5	25306.5	25372.6	24727.2	26886.9
70°	15082.3	14940.0	17826.3	22694.5	27705.0	30779.4	30764.2	27623.7	27196.9	25037.2	24569.7
72°	11586.1	11428.6	13801.7	19488.0	27090.1	32268.3	32725.7	29229.5	27176.5	23751.5	20296.0
72.5°	10519.0	10381.8	12744.7	18344.7	26409.2	32654.5	32441.1	29290.5	26963.1	23146.8	18959.5
75°	4842.8	4685.3	6367.3	11230.4	20600.9	28934.8	29661.5	27410.3	23548.3	18426.0	11357.4
77.5°	1443.2	1397.4	2047.9	4532.8	11972.3	21317.4	21596.9	20682.2	16439.1	10092.1	4212.7
80°	802.9	808.0	1057.0	1697.3	5264.6	12322.9	13329.1	12775.2	8064.5	3333.5	1402.5
82.5°	447.2	472.6	660.6	1006.2	2418.9	5655.8	6087.8	5869.3	2916.9	1565.1	767.3
85°	233.8	243.9	345.6	538.7	1372.0	1788.7	1839.5	1971.7	1514.3	1067.1	411.6
87.5°	91.5	91.5	127.0	223.6	508.2	553.9	498.0	604.7	869.0	691.1	203.3
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°	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0	4853.0
2.5°	4929.2	4888.5	4883.4	4817.4	4837.7	4781.8	4786.9	4776.7	4781.8	4771.6	4746.2
5°	4903.8	4873.3	4786.9	4842.8	4792.0	4863.1	4919.0	4898.7	4913.9	4908.9	4913.9
7.5°	4939.3	4898.7	4888.5	4858.0	4903.8	4934.3	4980.0	5107.0	5096.9	5112.1	5142.6
10°	5046.1	5000.3	4969.8	5015.6	4990.2	5086.7	5137.5	5203.6	5320.5	5325.5	5264.6
12.5°	5254.4	5223.9	5162.9	5173.1	5259.5	5290.0	5320.5	5361.1	5437.3	5422.1	5478.0
15°	5493.2	5427.2	5391.6	5381.4	5401.8	5437.3	5432.3	5472.9	5513.6	5549.1	5533.9
17.5°	5666.0	5579.6	5589.8	5640.6	5635.5	5625.4	5559.3	5539.0	5559.3	5579.6	5569.5
20°	5843.9	5854.0	5777.8	5732.1	5711.7	5610.1	5559.3	5498.3	5437.3	5467.8	5513.6
22.5°	6067.5	6021.7	5909.9	5772.7	5671.1	5610.1	5452.6	5345.9	5345.9	5376.4	5361.1
25°	6321.5	6225.0	6031.9	5782.9	5655.8	5396.7	5284.9	5269.6	5229.0	5274.7	5295.1
27.5°	6519.7	6433.3	6169.1	5747.3	5396.7	5188.3	5122.3	5102.0	5168.0	5173.1	5254.4
30°	6601.0	6575.6	6189.4	5655.8	5132.4	4797.1	4756.4	4847.9	4919.0	5025.7	5030.8
32.5°	6707.7	6717.9	6219.9	5442.4	4786.9	4451.5	4390.5	4502.3	4705.6	4792.0	4858.0
35°	6885.6	6936.4	6194.5	5178.2	4421.0	4100.9	4090.7	4121.2	4319.4	4471.8	4558.2
37.5°	7195.6	7185.4	6189.4	4863.1	4131.4	3796.0	3714.7	3724.8	3857.0	3984.0	3968.8
40°	7612.3	7571.6	6174.2	4451.5	3755.3	3536.8	3399.6	3348.8	3338.6	3303.1	3313.2
42.5°	8181.4	8100.1	6169.1	4034.8	3414.9	3181.1	3084.5	2952.4	2855.9	2672.9	2683.1
45°	8974.2	8831.9	6037.0	3643.5	3079.5	2886.4	2739.0	2642.4	2434.1	2205.4	2205.4
47.5°	10198.8	9736.4	6042.1	3211.6	2754.2	2596.7	2495.1	2327.4	2103.8	1920.9	1900.5
50°	12002.8	10945.8	5869.3	2871.1	2490.0	2383.3	2276.6	2083.5	1870.0	1743.0	1758.2
52.5°	14330.2	12749.8	5864.2	2566.2	2281.7	2205.4	2088.5	1915.8	1758.2	1676.9	1646.4
55°	17104.8	15138.2	6047.1	2317.2	2068.2	2027.6	1976.8	1834.5	1682.0	1610.9	1605.8
57.5°	19945.4	17470.6	6341.9	2139.4	1885.3	1915.8	1880.2	1768.4	1646.4	1565.1	1555.0
60°	22471.0	19320.3	5747.3	1925.9	1722.7	1788.7	1839.5	1743.0	1676.9	1671.9	1636.3
62.5°	24376.6	20113.1	4370.2	1763.3	1636.3	1758.2	1895.4	1956.4	1925.9	1966.6	1971.7
65°	25072.7	19635.4	3008.3	1676.9	1570.2	1829.4	2134.3	2114.0	1936.1	1859.9	1900.5
67.5°	24097.1	17699.3	2230.8	1575.3	1524.5	1976.8	2271.5	2017.4	1748.1	1737.9	1707.4
70°	20722.9	15001.0	1819.2	1468.6	1448.3	1895.4	2210.5	1870.0	1646.4	1580.4	1549.9
72°	16510.2	11682.7	1595.6	1392.4	1326.3	1692.2	2068.2	1753.2	1560.1	1478.8	1443.2
72.5°	15072.1	10828.9	1565.1	1356.8	1300.9	1646.4	1997.1	1717.6	1539.7	1468.6	1412.7
75°	8267.8	5544.1	1377.1	1245.0	1097.6	1422.9	1849.7	1610.9	1453.3	1351.7	1341.5
77.5°	3074.4	2149.5	1189.1	1102.7	950.3	1229.8	1682.0	1529.6	1321.2	1194.2	1168.8
80°	1178.9	1133.2	970.6	929.9	797.8	1077.3	1549.9	1372.0	1123.0	996.0	955.3
82.5°	716.5	660.6	736.8	726.7	609.8	980.8	1458.4	1285.7	996.0	808.0	782.6
85°	391.3	391.3	513.2	492.9	426.9	782.6	1102.7	853.7	630.1	518.3	528.5
87.5°	172.8	203.3	274.4	259.2	233.8	442.1	538.7	452.3	315.1	213.4	228.7
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)