

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: P478574

Luminaire Tested: **IFLD-L-SA7D-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478574
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

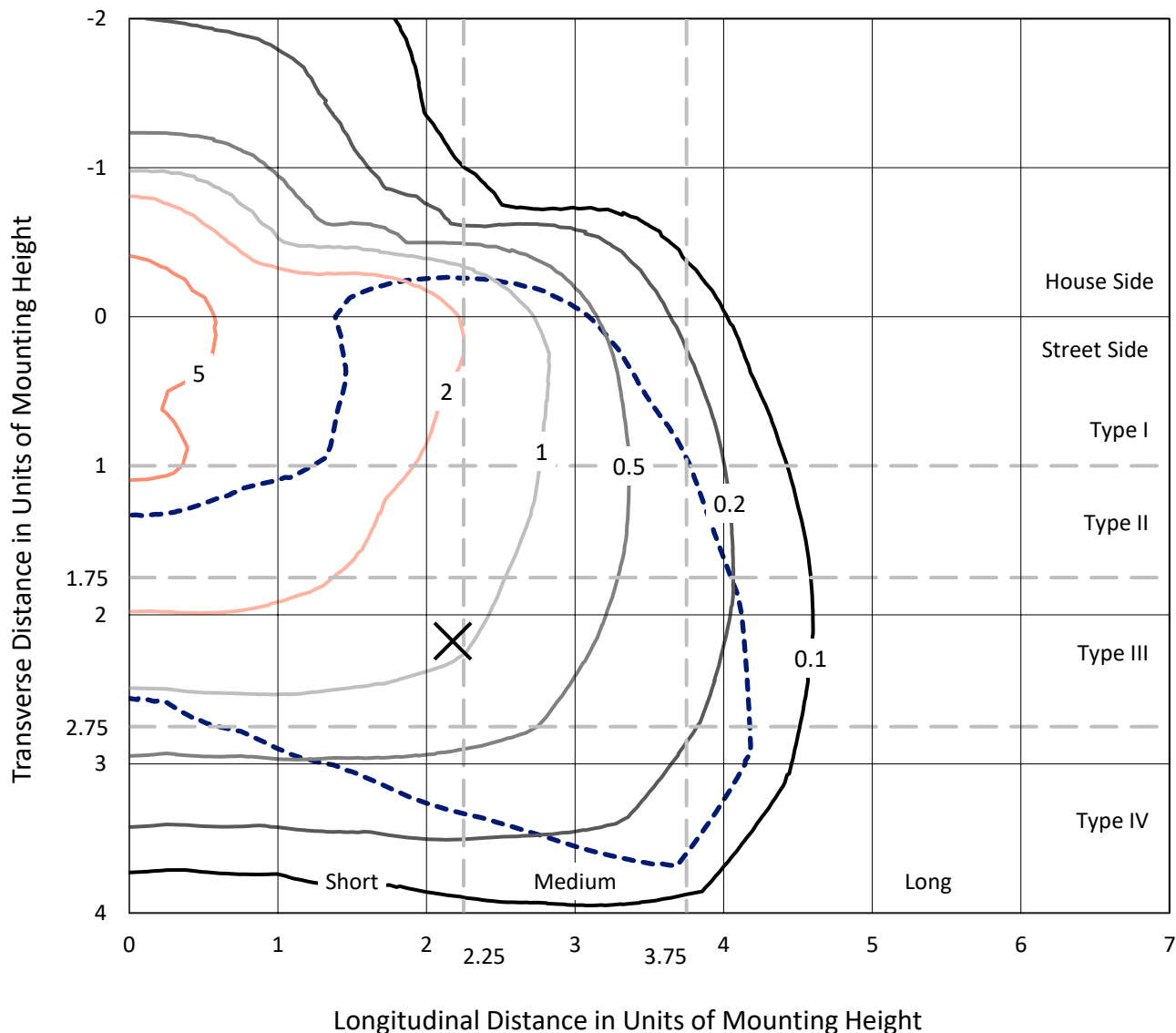
Lumens per Lamp: N/A
Luminaire Lumens: 49304.9 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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: P478574
 CATALOG NUMBER: IFLD-L-SA7D-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

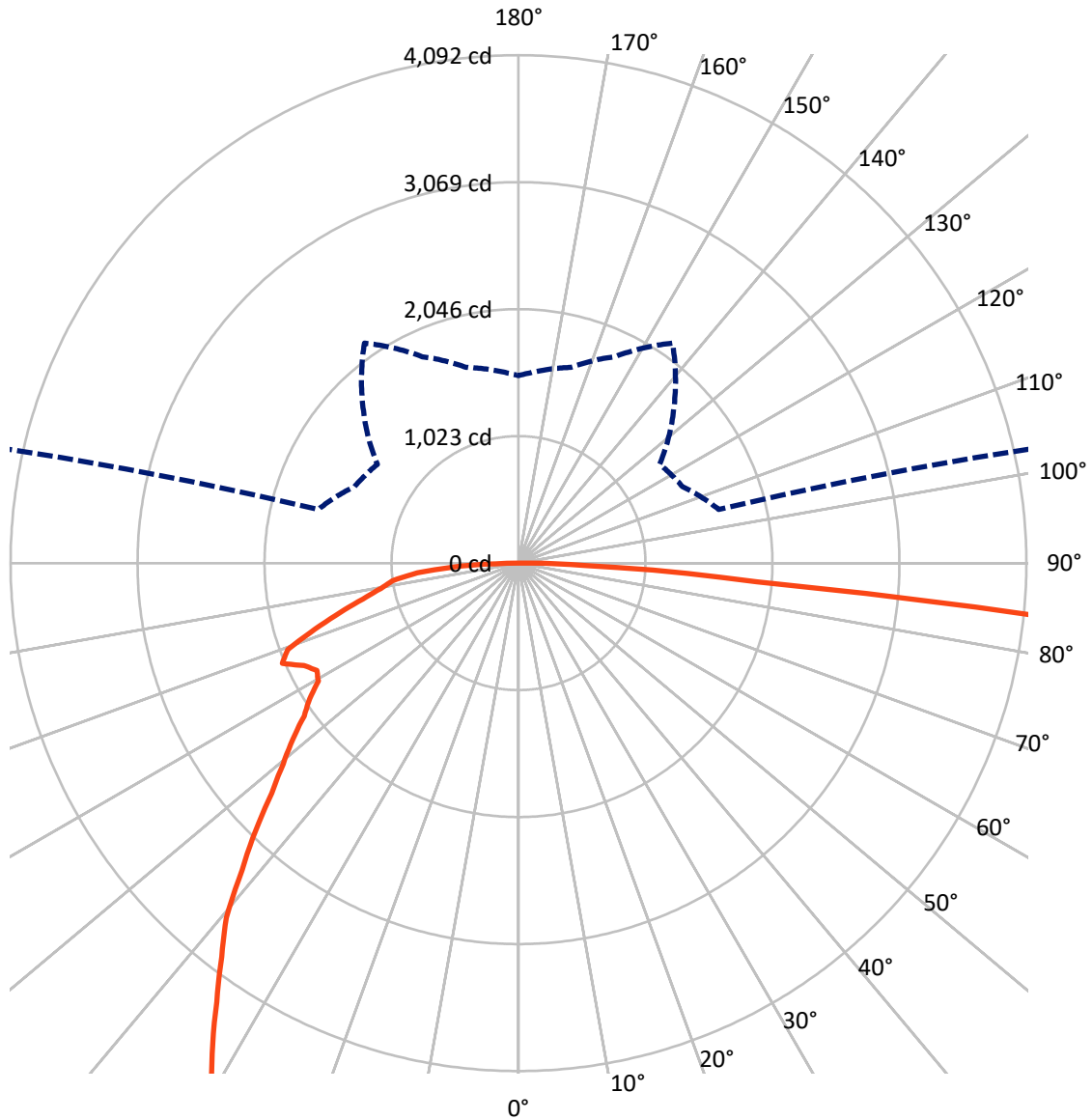
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P478574
CATALOG NUMBER: IFLD-L-SA7D-740-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478574

CATALOG NUMBER: IFLD-L-SA7D-740-U-T4W

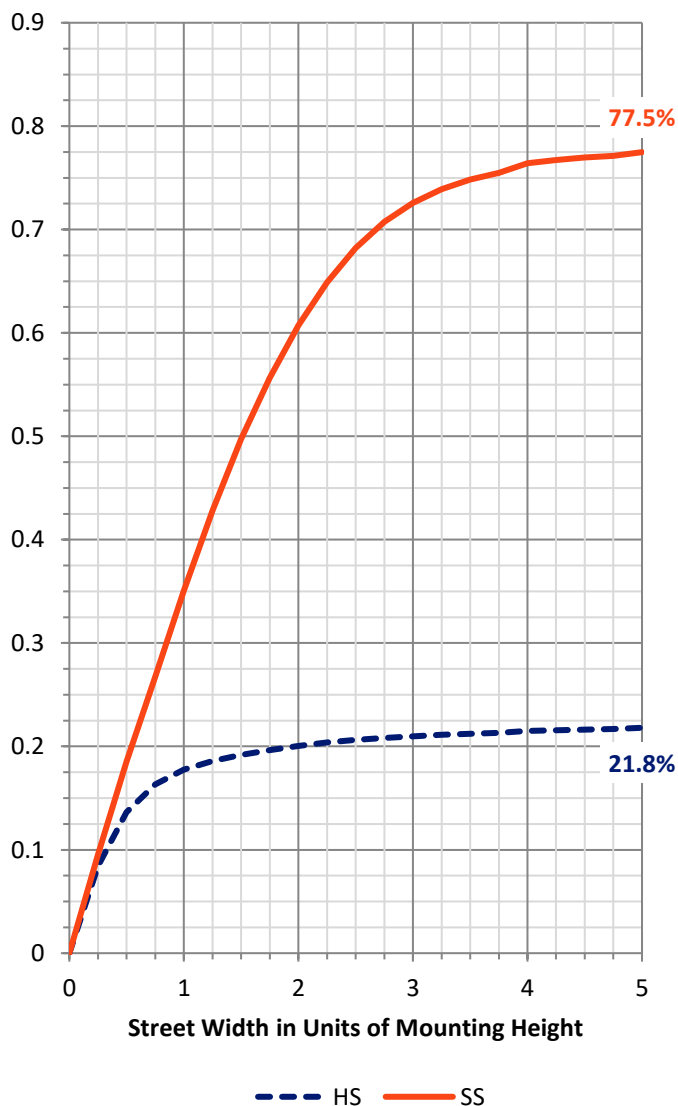
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10975.6	0.0	10975.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	38329.3	0.0	38329.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	49304.9	0.0	49304.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.6	1.1
10°-20°	1728.6	3.5
20°-30°	2919.2	5.9
30°-40°	4039.7	8.2
40°-50°	5778.4	11.7
50°-60°	9319.9	18.9
60°-70°	13745.5	27.9
70°-80°	9981.6	20.2
80°-90°	1272.4	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°	49304.9	100.0
0°-180°	49304.9	100.0

Coefficient of Utilization



REPORT NUMBER: P478574

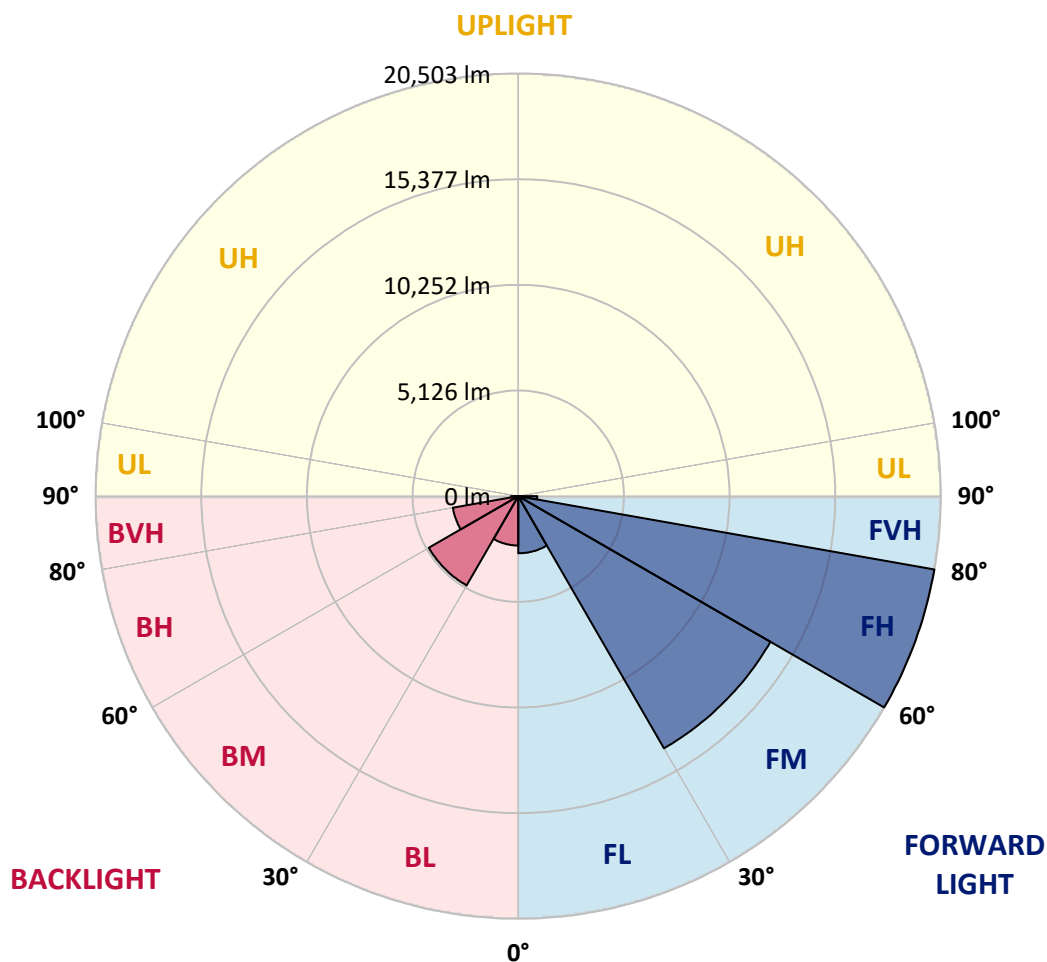
CATALOG NUMBER: IFLD-L-SA7D-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2771.0	5.6			
FM (30°-60°)	14129.1	28.7			
FH (60°-80°)	20503.2	41.6			G5
FVH (80°-90°)	926.1	1.9			G5
BL (0°-30°)	2396.4	4.9	B3/2500		
BM (30°-60°)	5008.9	10.2	B4/8500		
BH (60°-80°)	3223.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	346.3	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: P478574

CATALOG NUMBER: IFLD-L-SA7D-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5
2.5°	5348.7	5380.6	5348.7	5343.4	5290.2	5253.0	5284.9	5237.0	5183.8	5162.6	5114.7
5°	5837.8	5843.1	5784.6	5790.0	5678.3	5561.3	5582.6	5439.1	5284.9	5226.4	5130.7
7.5°	6337.6	6279.1	6194.0	6167.4	5992.0	5864.4	5848.4	5720.8	5481.6	5348.7	5215.7
10°	6661.9	6683.2	6544.9	6428.0	6279.1	6124.9	6119.6	5880.3	5742.1	5545.4	5375.3
12.5°	6949.0	6954.3	6837.4	6651.3	6465.2	6273.8	6300.4	6194.0	5960.1	5774.0	5603.9
15°	7172.3	7140.4	7012.8	6842.7	6646.0	6497.1	6481.1	6390.8	6194.0	6039.8	5758.1
17.5°	7236.1	7220.2	7092.6	6911.8	6720.4	6608.7	6651.3	6502.4	6422.7	6284.4	6013.3
20°	7113.8	7076.6	7055.3	6853.3	6715.1	6704.4	6667.2	6699.1	6566.2	6438.6	6241.9
22.5°	6890.5	6874.6	6863.9	6704.4	6640.6	6688.5	6752.3	6800.1	6778.9	6656.6	6433.3
25°	6661.9	6736.3	6667.2	6592.8	6683.2	6805.5	6789.5	6943.7	6943.7	6906.5	6720.4
27.5°	6821.4	6773.6	6720.4	6683.2	6715.1	6906.5	6895.8	7081.9	7151.1	7081.9	6869.3
30°	7220.2	7172.3	7018.1	6853.3	6810.8	7018.1	7071.3	7236.1	7268.0	7097.9	6917.1
32.5°	7969.8	7943.2	7698.7	7214.9	6954.3	7071.3	7097.9	7284.0	7257.4	7151.1	7076.6
35°	9081.0	8990.7	8650.4	7831.6	7257.4	7140.4	7071.3	7220.2	7321.2	7268.0	7198.9
37.5°	10298.6	10197.6	9777.5	8740.8	7805.0	7326.5	7273.3	7395.6	7512.6	7486.0	7342.5
40°	11462.9	11462.9	11085.5	9878.6	8618.5	7778.4	7789.1	7650.8	7757.2	7709.3	7735.9
42.5°	12611.4	12568.8	12414.6	11213.1	9490.4	8533.4	8363.3	8017.7	8209.1	8193.1	8230.4
45°	13775.7	13743.8	13701.3	12457.2	10739.9	9554.2	9463.8	8841.8	9017.2	8942.8	9102.3
47.5°	14706.2	14743.4	14743.4	13844.9	12074.4	10915.3	10782.4	9798.8	10133.8	10171.0	10208.2
50°	15498.4	15514.3	15498.4	15168.7	13563.1	12473.1	12202.0	11202.4	11537.4	11829.8	12170.1
52.5°	16593.6	16614.9	16540.5	16412.9	15583.4	14110.7	13807.6	12696.4	13382.3	13690.7	14302.1
55°	17944.1	17784.6	17646.3	17742.0	17524.1	15913.1	15599.4	14238.3	15269.8	15679.1	16902.0
57.5°	18194.0	18332.2	18683.1	19443.4	19757.1	17667.6	17486.8	16131.1	17401.8	17758.0	19799.6
60°	19076.6	18847.9	19709.3	21357.5	21708.4	19953.8	19767.7	18204.6	19523.2	19895.3	22474.0
62.5°	19656.1	19645.5	20921.5	22878.0	23675.6	22325.1	21947.6	20900.2	21814.7	22176.2	25387.6
65°	19485.9	19640.1	21905.1	23771.3	25318.4	25020.7	24802.7	23218.3	24425.2	24393.3	27285.6
67.5°	17933.5	18369.4	21283.0	24414.6	27764.2	28306.5	28237.3	26477.5	26546.6	25871.4	28131.0
70°	15780.2	15631.3	18651.2	23744.7	28987.0	32203.7	32187.7	28901.9	28455.3	26195.7	25706.6
72°	12122.2	11957.4	14440.3	20389.8	28343.7	33761.5	34240.0	30582.0	28434.1	24850.6	21235.2
72.5°	11005.7	10862.2	13334.5	19193.5	27631.2	34165.5	33942.2	30645.8	28210.8	24217.9	19836.9
75°	5066.9	4902.1	6661.9	11750.1	21554.2	30273.7	31034.0	28678.6	24637.9	19278.6	11883.0
77.5°	1510.0	1462.1	2142.7	4742.6	12526.3	22303.8	22596.3	21639.2	17199.7	10559.1	4407.6
80°	840.0	845.4	1105.9	1775.8	5508.2	12893.2	13945.9	13366.4	8437.7	3487.8	1467.4
82.5°	467.9	494.5	691.2	1052.7	2530.8	5917.6	6369.5	6140.9	3051.8	1637.6	802.8
85°	244.6	255.2	361.5	563.6	1435.5	1871.5	1924.7	2062.9	1584.4	1116.5	430.7
87.5°	95.7	95.7	132.9	233.9	531.7	579.5	521.0	632.7	909.2	723.1	212.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478574
 CATALOG NUMBER: IFLD-L-SA7D-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5	5077.5
2.5°	5157.3	5114.7	5109.4	5040.3	5061.6	5003.1	5008.4	4997.8	5003.1	4992.4	4965.9
5°	5130.7	5098.8	5008.4	5066.9	5013.7	5088.1	5146.6	5125.4	5141.3	5136.0	5141.3
7.5°	5167.9	5125.4	5114.7	5082.8	5130.7	5162.6	5210.4	5343.4	5332.7	5348.7	5380.6
10°	5279.5	5231.7	5199.8	5247.6	5221.1	5322.1	5375.3	5444.4	5566.7	5572.0	5508.2
12.5°	5497.5	5465.6	5401.8	5412.5	5502.9	5534.8	5566.7	5609.2	5688.9	5673.0	5731.5
15°	5747.4	5678.3	5641.1	5630.5	5651.7	5688.9	5683.6	5726.2	5768.7	5805.9	5790.0
17.5°	5928.2	5837.8	5848.4	5901.6	5896.3	5885.7	5816.5	5795.3	5816.5	5837.8	5827.2
20°	6114.3	6124.9	6045.2	5997.3	5976.0	5869.7	5816.5	5752.7	5688.9	5720.8	5768.7
22.5°	6348.2	6300.4	6183.4	6039.8	5933.5	5869.7	5704.9	5593.2	5593.2	5625.1	5609.2
25°	6614.1	6513.0	6311.0	6050.5	5917.6	5646.4	5529.4	5513.5	5471.0	5518.8	5540.1
27.5°	6821.4	6731.0	6454.6	6013.3	5646.4	5428.4	5359.3	5338.0	5407.2	5412.5	5497.5
30°	6906.5	6879.9	6475.8	5917.6	5369.9	5019.0	4976.5	5072.2	5146.6	5258.3	5263.6
32.5°	7018.1	7028.8	6507.7	5694.3	5008.4	4657.5	4593.7	4710.7	4923.3	5013.7	5082.8
35°	7204.2	7257.4	6481.1	5417.8	4625.6	4290.6	4280.0	4311.9	4519.3	4678.8	4769.1
37.5°	7528.5	7517.9	6475.8	5088.1	4322.5	3971.6	3886.6	3897.2	4035.4	4168.3	4152.4
40°	7964.5	7922.0	6459.9	4657.5	3929.1	3700.5	3556.9	3503.7	3493.1	3455.9	3466.5
42.5°	8560.0	8474.9	6454.6	4221.5	3572.9	3328.3	3227.3	3089.0	2988.0	2796.6	2807.3
45°	9389.4	9240.5	6316.3	3812.1	3222.0	3019.9	2865.7	2764.7	2546.7	2307.5	2307.5
47.5°	10670.8	10186.9	6321.6	3360.2	2881.7	2716.9	2610.5	2435.1	2201.1	2009.7	1988.5
50°	12558.2	11452.3	6140.9	3004.0	2605.2	2493.6	2381.9	2179.9	1956.6	1823.7	1839.6
52.5°	14993.3	13339.8	6135.5	2685.0	2387.2	2307.5	2185.2	2004.4	1839.6	1754.5	1722.6
55°	17896.2	15838.6	6327.0	2424.4	2163.9	2121.4	2068.2	1919.4	1759.8	1685.4	1680.1
57.5°	20868.3	18279.0	6635.3	2238.4	1972.5	2004.4	1967.2	1850.2	1722.6	1637.6	1626.9
60°	23510.7	20214.3	6013.3	2015.1	1802.4	1871.5	1924.7	1823.7	1754.5	1749.2	1712.0
62.5°	25504.5	21043.8	4572.4	1844.9	1712.0	1839.6	1983.2	2047.0	2015.1	2057.6	2062.9
65°	26232.9	20544.0	3147.5	1754.5	1642.9	1914.0	2233.0	2211.8	2025.7	1945.9	1988.5
67.5°	25212.1	18518.3	2334.1	1648.2	1595.0	2068.2	2376.6	2110.8	1829.0	1818.3	1786.4
70°	21681.8	15695.1	1903.4	1536.5	1515.3	1983.2	2312.8	1956.6	1722.6	1653.5	1621.6
72°	17274.2	12223.2	1669.5	1456.8	1387.7	1770.5	2163.9	1834.3	1632.2	1547.2	1510.0
72.5°	15769.5	11330.0	1637.6	1419.6	1361.1	1722.6	2089.5	1797.1	1611.0	1536.5	1478.1
75°	8650.4	5800.6	1440.8	1302.6	1148.4	1488.7	1935.3	1685.4	1520.6	1414.3	1403.6
77.5°	3216.6	2249.0	1244.1	1153.7	994.2	1286.7	1759.8	1600.3	1382.4	1249.4	1222.9
80°	1233.5	1185.6	1015.5	973.0	834.7	1127.2	1621.6	1435.5	1175.0	1042.1	999.6
82.5°	749.7	691.2	770.9	760.3	638.0	1026.1	1525.9	1345.1	1042.1	845.4	818.8
85°	409.4	409.4	537.0	515.7	446.6	818.8	1153.7	893.2	659.3	542.3	552.9
87.5°	180.8	212.7	287.1	271.2	244.6	462.6	563.6	473.2	329.6	223.3	239.3
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)