

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: P478313

Luminaire Tested: **IFLD-S-SA3B-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478313
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

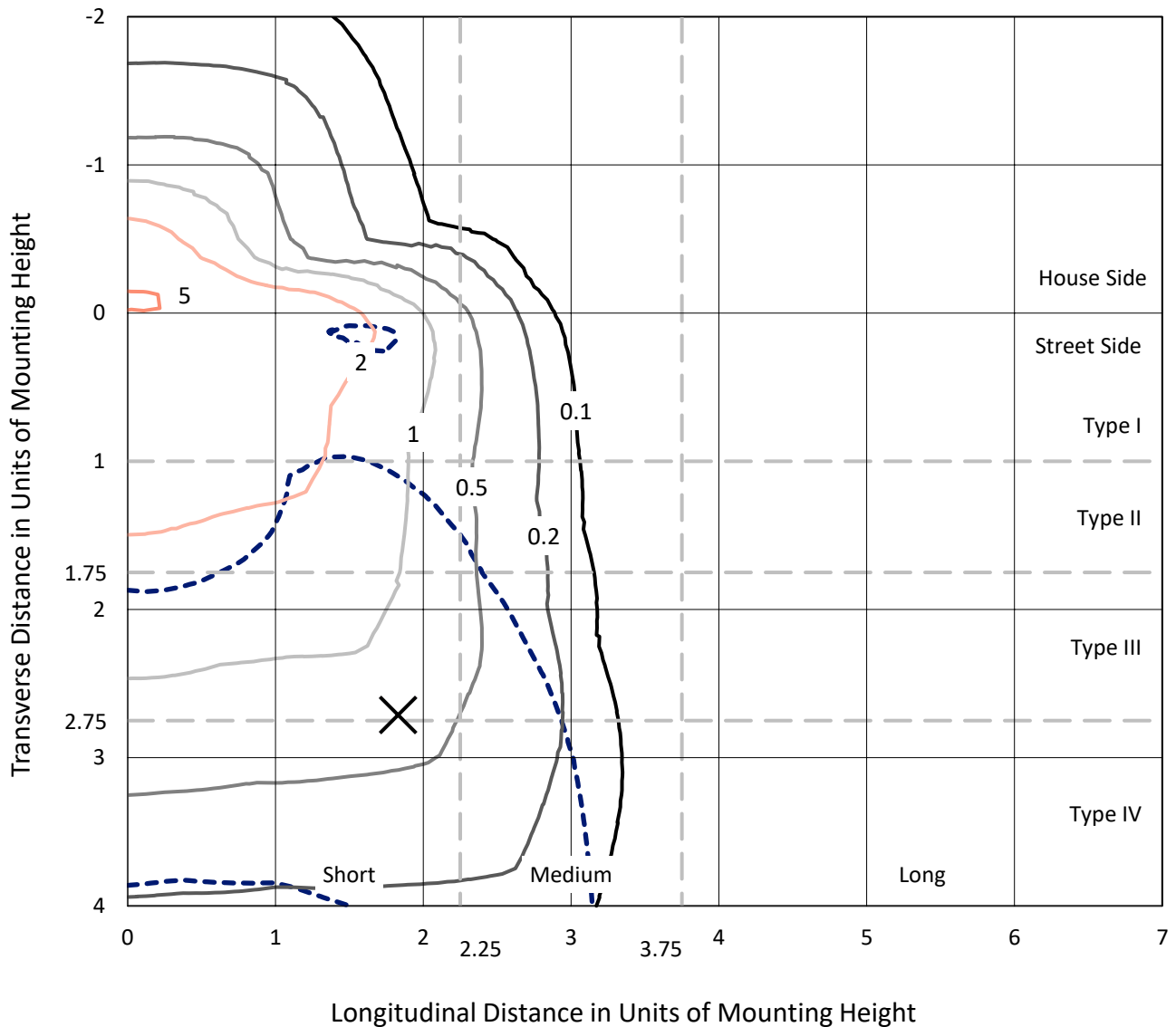
Lumens per Lamp: N/A
Luminaire Lumens: 13851.9 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (A_{in}): 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: P478313
 CATALOG NUMBER: IFLD-S-SA3B-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

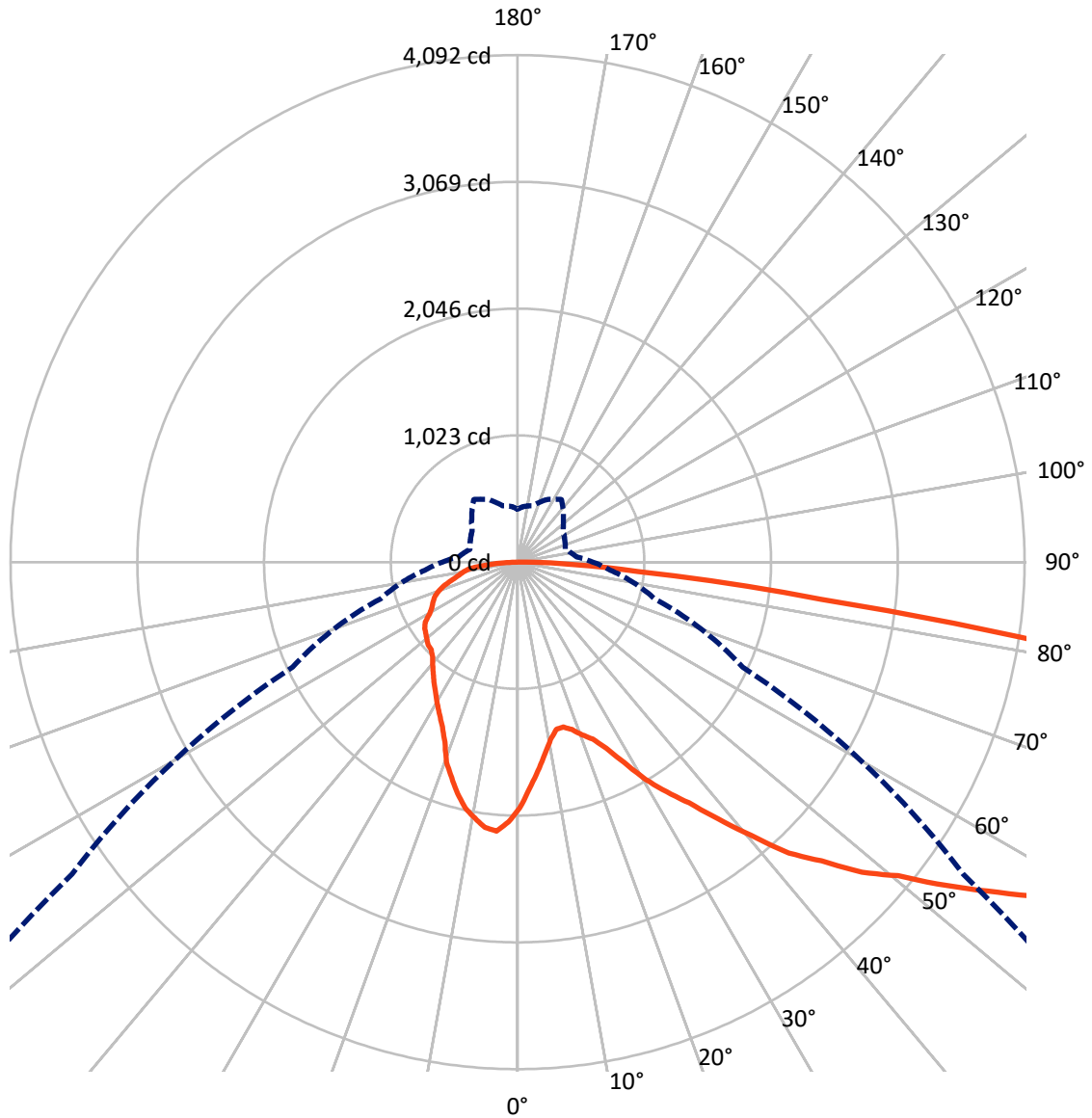
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P478313
CATALOG NUMBER: IFLD-S-SA3B-830-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478313
 CATALOG NUMBER: IFLD-S-SA3B-830-U-T4FT

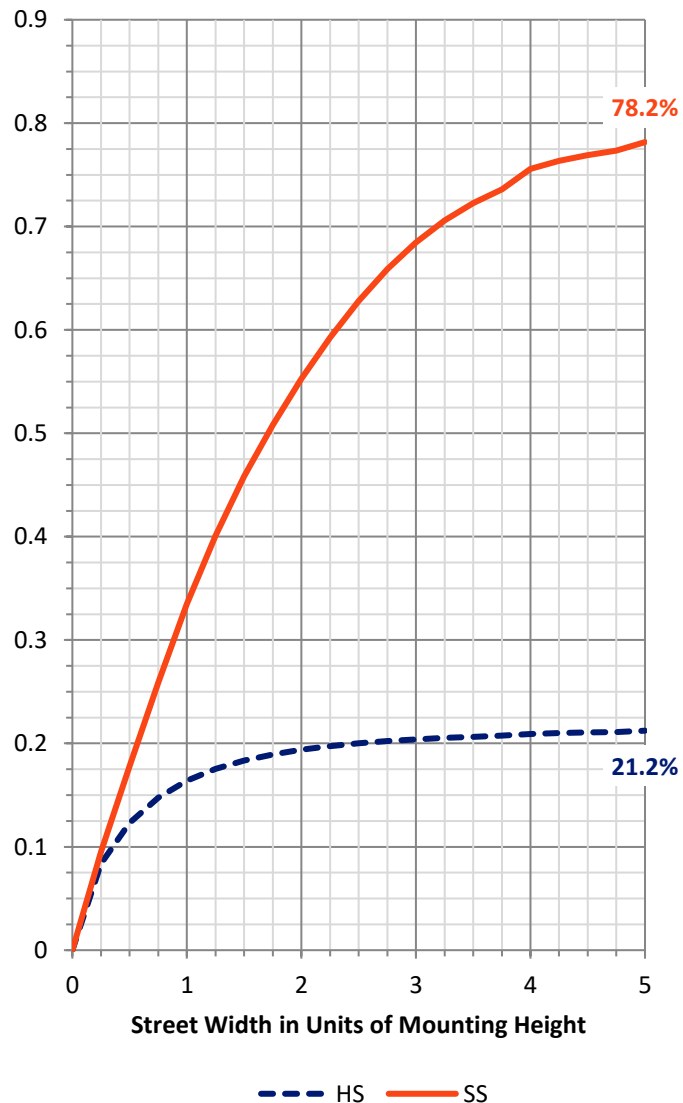
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2992.2	0.0	2992.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10859.8	0.0	10859.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	13851.9	0.0	13851.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	1.3
10°-20°	512.9	3.7
20°-30°	844.2	6.1
30°-40°	1262.5	9.1
40°-50°	1871.7	13.5
50°-60°	2697.3	19.5
60°-70°	3442.1	24.8
70°-80°	2678.5	19.3
80°-90°	359.3	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°	13851.9	100.0
0°-180°	13851.9	100.0

Coefficient of Utilization



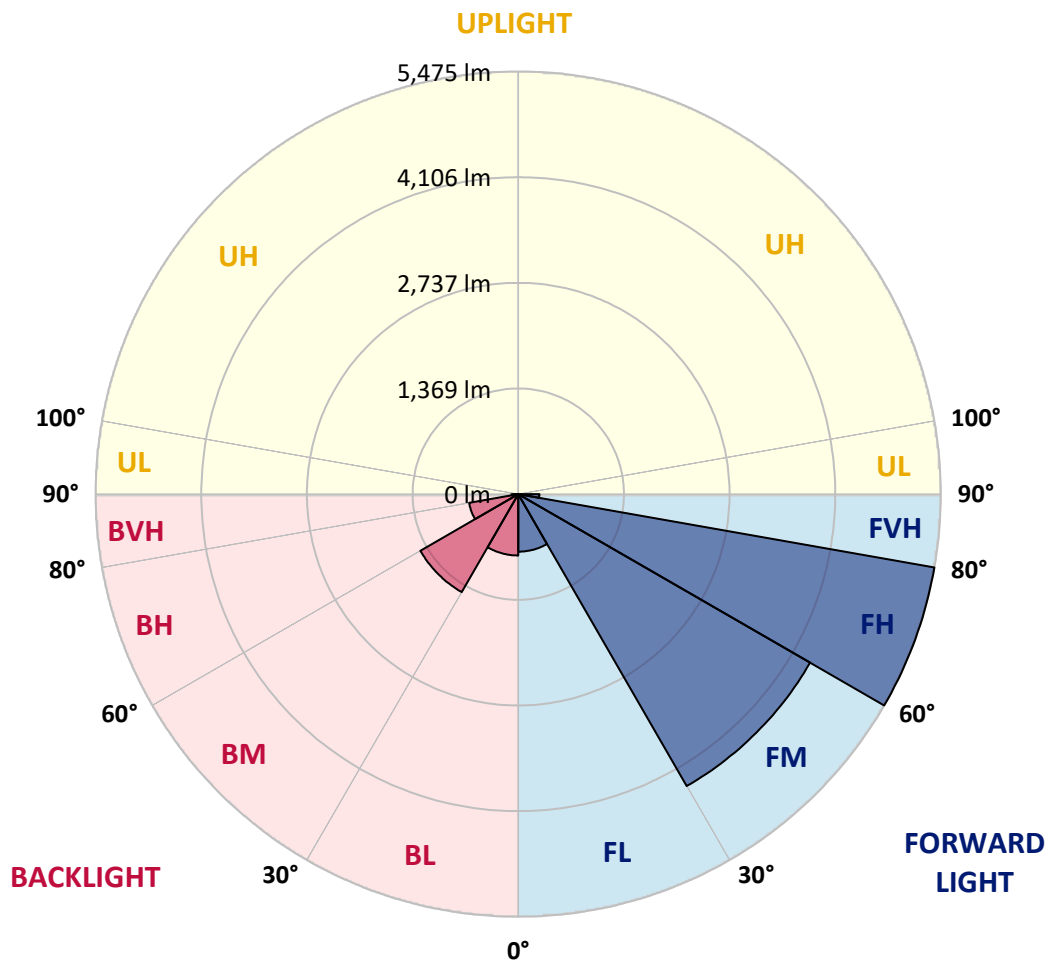
REPORT NUMBER: P478313
 CATALOG NUMBER: IFLD-S-SA3B-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	745.5	5.4			
FM (30°-60°)	4366.2	31.5			
FH (60°-80°)	5474.5	39.5			G3/7500
FVH (80°-90°)	273.5	2.0			G3/500
BL (0°-30°)	795.0	5.7	B2/1000		
BM (30°-60°)	1465.3	10.6	B2/2500		
BH (60°-80°)	646.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	85.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P478313

CATALOG NUMBER: IFLD-S-SA3B-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9
2.5°	1779.4	1785.3	1804.3	1808.7	1829.2	1817.5	1842.4	1886.3	1911.2	1947.8	1991.8
5°	1638.8	1613.9	1625.6	1671.0	1694.5	1700.3	1726.7	1801.4	1848.2	1902.4	1984.4
7.5°	1473.3	1468.9	1492.3	1521.6	1568.5	1572.9	1631.5	1697.4	1794.0	1914.1	2010.8
10°	1360.5	1379.6	1392.8	1423.5	1455.7	1455.7	1530.4	1644.7	1754.5	1870.2	2016.6
12.5°	1354.7	1343.0	1345.9	1362.0	1385.4	1414.7	1485.0	1587.5	1726.7	1861.4	2041.5
15°	1373.7	1378.1	1351.8	1372.3	1381.0	1391.3	1468.9	1584.6	1709.1	1892.2	2084.0
17.5°	1474.8	1449.9	1408.9	1389.8	1420.6	1420.6	1473.3	1564.1	1712.0	1908.3	2145.5
20°	1553.9	1553.9	1486.5	1466.0	1488.0	1483.6	1520.2	1587.5	1726.7	1940.5	2214.4
22.5°	1687.1	1706.2	1594.9	1552.4	1550.9	1562.6	1594.9	1652.0	1767.7	1985.9	2280.3
25°	1879.0	1883.4	1754.5	1710.6	1663.7	1682.7	1688.6	1745.7	1804.3	2038.6	2355.0
27.5°	2092.8	2089.9	1971.2	1861.4	1830.7	1835.0	1802.8	1840.9	1858.5	2054.7	2461.9
30°	2330.1	2303.7	2214.4	2059.1	2034.2	2006.4	1936.1	1934.6	1971.2	2145.5	2609.8
32.5°	2485.3	2451.6	2390.1	2278.8	2210.0	2212.9	2101.6	2100.1	2067.9	2245.1	2738.7
35°	2637.6	2586.3	2570.2	2456.0	2387.2	2394.5	2305.2	2293.4	2234.9	2396.0	2951.0
37.5°	2820.7	2775.3	2800.2	2713.8	2628.8	2593.7	2552.7	2538.0	2461.9	2608.3	3241.0
40°	3022.8	3008.1	2992.0	2949.6	2898.3	2901.2	2857.3	2842.6	2729.9	2864.6	3519.3
42.5°	3295.2	3239.5	3156.0	3183.9	3210.2	3238.1	3223.4	3185.3	3068.2	3125.3	3829.7
45°	3548.5	3475.3	3321.5	3330.3	3438.7	3460.7	3637.9	3633.5	3397.7	3456.3	4182.7
47.5°	3719.9	3686.2	3593.9	3583.7	3738.9	3737.5	4056.7	4056.7	3744.8	3785.8	4562.0
50°	3974.7	3886.8	3847.3	3898.6	3977.6	4031.8	4484.4	4512.2	4086.0	4130.0	5058.5
52.5°	4273.5	4163.6	4064.1	4195.9	4336.5	4371.6	4907.6	4895.9	4348.2	4529.8	5639.9
55°	4521.0	4465.3	4396.5	4472.7	4702.6	4746.5	5332.3	5224.0	4610.3	4860.8	5919.6
57.5°	4809.5	4843.2	4857.8	4838.8	5112.7	5181.5	5817.1	5506.6	4835.9	5083.4	6083.6
60°	5244.5	5265.0	5284.0	5329.4	5619.4	5716.0	6200.8	5861.0	4977.9	5212.2	6096.8
62.5°	5906.4	5827.3	5869.8	6026.5	6259.4	6369.2	6766.1	6110.0	5086.3	5289.9	5666.2
65°	6663.6	6556.7	6512.7	6714.8	7318.2	7230.4	7472.0	6296.0	4929.6	4999.9	4805.1
67.5°	7431.0	7442.7	7329.9	7735.6	8475.2	8475.2	8128.1	6385.3	4504.9	4052.3	3369.9
70°	8040.2	8076.8	8138.4	8924.8	10096.4	10273.6	8940.9	6019.2	3639.3	2697.7	1842.4
72.5°	8031.4	7921.6	8236.5	9684.9	11569.7	11421.8	9110.8	4759.7	2271.5	1321.0	845.0
73°	7851.3	7759.0	8103.2	9677.6	11629.8	11490.7	8986.3	4387.7	2003.5	1145.3	751.3
75°	6411.7	6244.7	6830.5	8765.2	10759.9	10866.8	7634.6	2861.7	1098.4	705.9	528.7
77.5°	2923.2	2996.4	3759.4	5880.1	8292.1	8418.1	5018.9	1237.5	601.9	495.0	389.6
80°	938.8	985.6	1463.1	2923.2	5197.6	5424.6	2319.8	562.4	429.1	379.3	291.4
82.5°	358.8	357.3	613.6	1215.6	2463.3	2608.3	848.0	342.7	319.3	279.7	206.5
85°	125.9	131.8	231.4	480.4	969.5	1014.9	294.4	190.4	221.1	187.5	118.6
87.5°	43.9	45.4	82.0	174.3	333.9	353.0	82.0	76.2	109.8	108.4	60.0
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: P478313
 CATALOG NUMBER: IFLD-S-SA3B-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9	1985.9
2.5°	2006.4	2019.6	2024.0	2076.7	2076.7	2076.7	2097.2	2097.2	2091.3	2076.7	2111.8
5°	2015.2	2038.6	2084.0	2129.4	2141.1	2151.4	2179.2	2155.8	2164.6	2149.9	2163.1
7.5°	2040.1	2072.3	2157.2	2185.1	2166.0	2188.0	2158.7	2142.6	2126.5	2132.3	2111.8
10°	2082.6	2123.6	2163.1	2214.4	2177.7	2155.8	2095.7	2081.1	2029.8	2012.3	2028.4
12.5°	2135.3	2185.1	2252.4	2233.4	2163.1	2100.1	2035.7	1974.2	1943.4	1899.5	1911.2
15°	2188.0	2245.1	2255.4	2223.1	2135.3	2056.2	1939.0	1852.6	1821.9	1782.3	1802.8
17.5°	2245.1	2299.3	2281.7	2198.3	2079.6	1959.5	1826.3	1741.3	1676.9	1652.0	1652.0
20°	2330.1	2356.4	2328.6	2157.2	2012.3	1854.1	1725.2	1628.6	1564.1	1553.9	1537.8
22.5°	2396.0	2438.4	2313.9	2097.2	1914.1	1716.4	1568.5	1531.9	1512.9	1496.7	1476.2
25°	2480.9	2479.4	2287.6	2041.5	1745.7	1552.4	1463.1	1460.1	1451.3	1445.5	1473.3
27.5°	2561.5	2527.8	2256.8	1903.9	1571.4	1427.9	1379.6	1411.8	1425.0	1416.2	1427.9
30°	2688.9	2633.2	2212.9	1757.4	1417.7	1302.0	1310.7	1354.7	1376.7	1389.8	1372.3
32.5°	2823.6	2738.7	2122.1	1605.1	1281.5	1222.9	1243.4	1288.8	1315.1	1329.8	1345.9
35°	3018.4	2820.7	2029.8	1405.9	1183.3	1174.5	1186.3	1211.2	1249.2	1259.5	1263.9
37.5°	3258.6	2945.2	1905.3	1246.3	1107.2	1117.4	1129.1	1137.9	1139.4	1158.4	1151.1
40°	3498.7	3050.6	1723.7	1094.0	1028.1	1083.7	1077.9	1061.8	1048.6	1031.0	1026.6
42.5°	3709.6	3142.9	1521.6	965.1	957.8	1048.6	1029.6	988.6	957.8	944.6	922.7
45°	3946.9	3273.2	1318.1	884.6	903.6	1006.1	1000.3	937.3	897.8	850.9	845.0
47.5°	4254.4	3409.4	1123.3	801.1	852.4	990.0	992.9	912.4	855.3	792.3	783.5
50°	4648.4	3605.7	975.4	765.9	821.6	966.6	971.0	878.7	804.0	739.6	733.7
52.5°	5026.2	3806.3	852.4	711.8	801.1	938.8	949.0	848.0	761.6	681.0	685.4
55°	5216.6	3733.1	746.9	672.2	754.2	893.4	931.4	826.0	697.1	641.5	640.0
57.5°	5259.1	3552.9	663.4	631.2	714.7	845.0	902.1	760.1	667.8	621.0	615.1
60°	5120.0	3238.1	597.5	587.3	664.9	795.2	834.8	724.9	638.5	600.5	591.7
62.5°	4777.3	2911.5	552.1	566.8	622.4	741.0	792.3	700.0	610.7	584.3	565.3
65°	3917.6	2394.5	515.5	527.2	578.5	688.3	765.9	672.2	585.8	560.9	559.4
67.5°	2713.8	1650.5	486.2	508.2	543.3	650.2	739.6	641.5	553.6	544.8	533.1
70°	1389.8	880.2	448.1	465.7	505.3	601.9	692.7	609.2	519.9	518.4	503.8
72.5°	704.4	515.5	404.2	430.6	458.4	538.9	634.1	566.8	477.4	461.3	437.9
73°	609.2	477.4	396.9	420.3	446.7	521.4	616.6	556.5	471.6	448.1	426.2
75°	443.8	376.4	355.9	379.3	399.8	470.1	558.0	509.7	433.5	408.6	388.1
77.5°	332.4	290.0	295.8	322.2	339.8	405.7	496.5	461.3	392.5	358.8	350.0
80°	244.6	221.1	244.6	269.5	282.7	357.3	452.5	399.8	331.0	292.9	285.6
82.5°	174.3	161.1	188.9	205.0	210.9	295.8	407.1	319.3	250.4	200.6	184.5
85°	99.6	98.1	127.4	125.9	130.3	172.8	268.0	212.4	161.1	123.0	120.1
87.5°	43.9	48.3	64.4	51.3	54.2	82.0	114.2	79.1	65.9	36.6	27.8
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)