

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: P483889

Luminaire Tested: **IFLD-S-SA3A-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483889
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

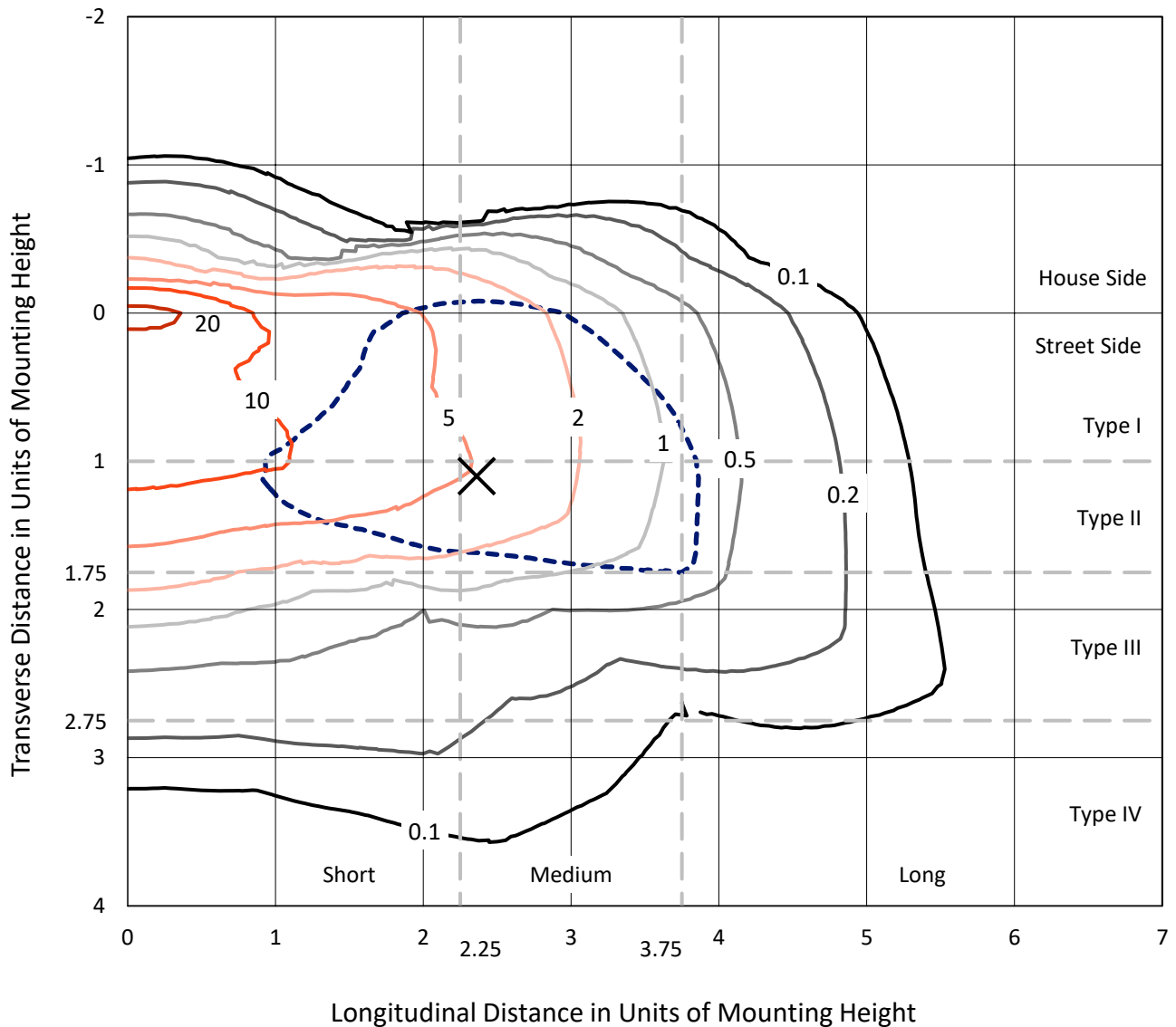
Lumens per Lamp: N/A
Luminaire Lumens: 9470.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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: P483889
 CATALOG NUMBER: IFLD-S-SA3A-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

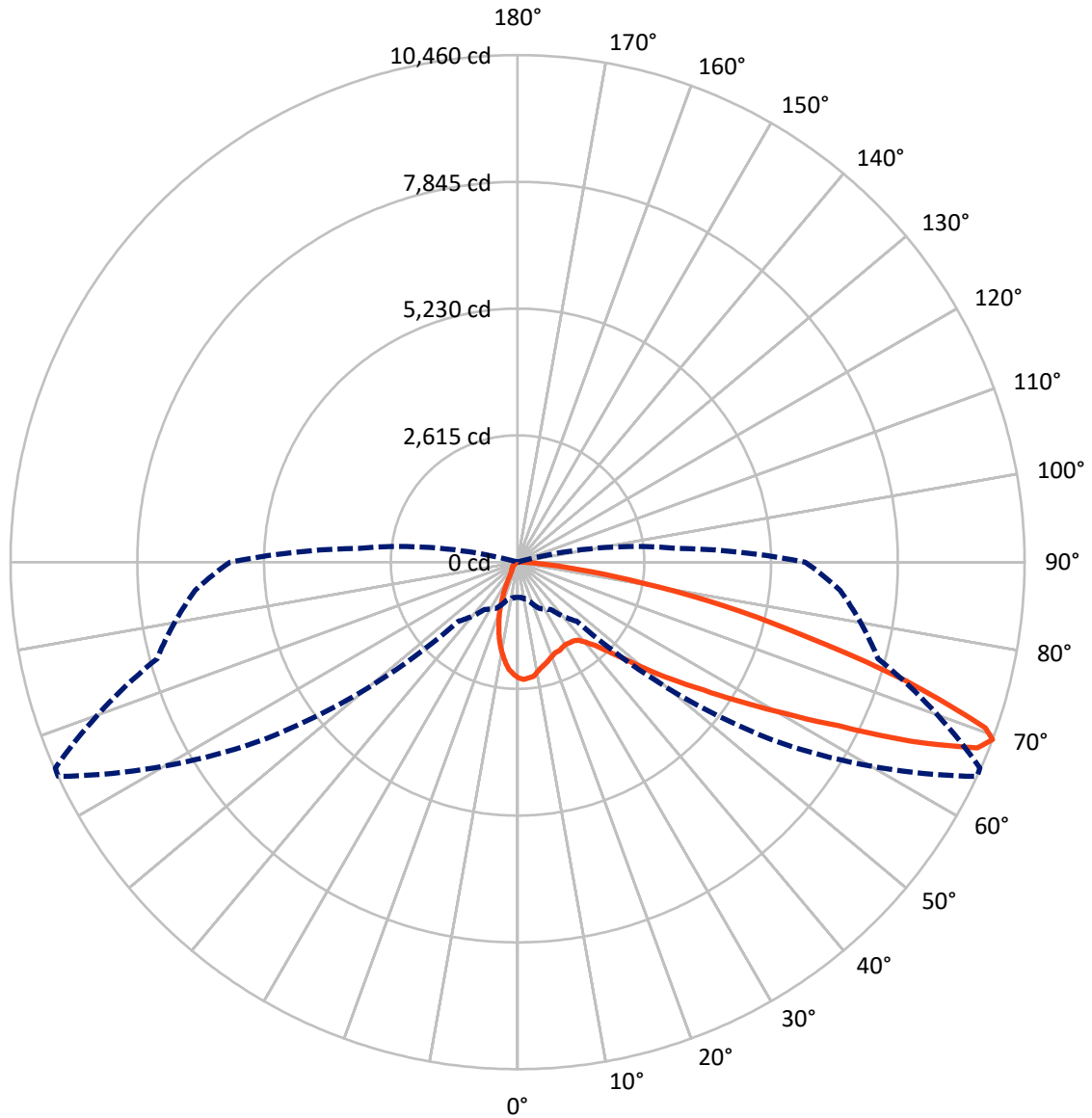
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P483889
CATALOG NUMBER: IFLD-S-SA3A-727-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P483889
 CATALOG NUMBER: IFLD-S-SA3A-727-U-SL2-HSS

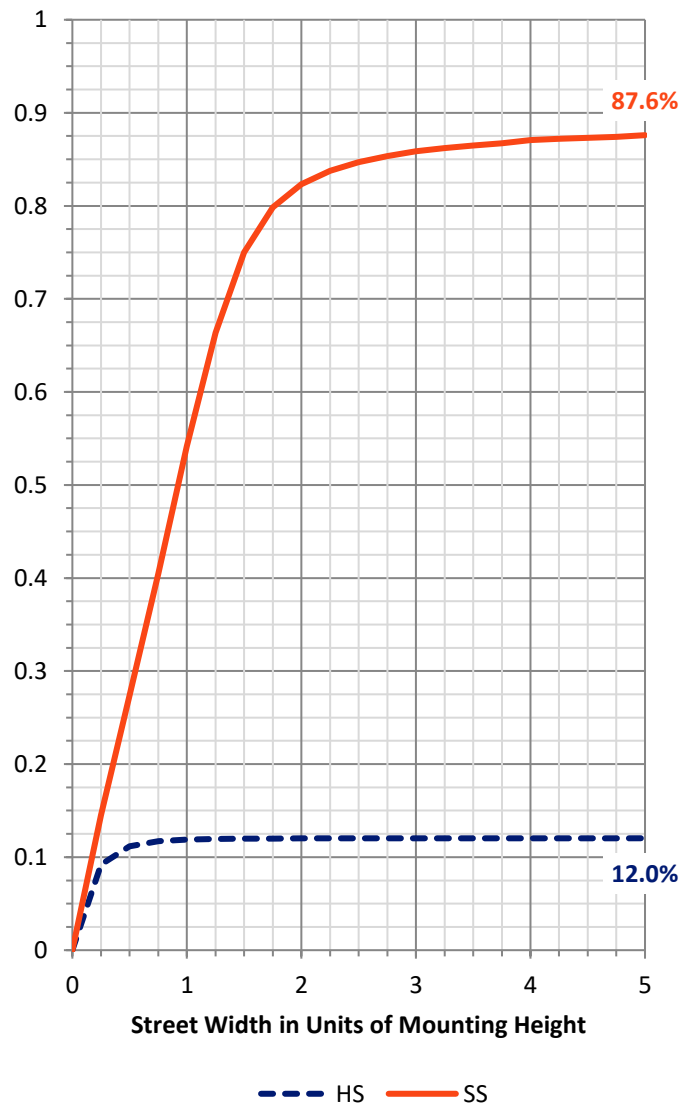
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1148.8	0.0	1148.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	8321.4	0.0	8321.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	9470.3	0.0	9470.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	2.1
10°-20°	427.5	4.5
20°-30°	595.2	6.3
30°-40°	843.4	8.9
40°-50°	1329.2	14.0
50°-60°	2156.9	22.8
60°-70°	2408.8	25.4
70°-80°	1356.4	14.3
80°-90°	157.4	1.7
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°	9470.3	100.0
0°-180°	9470.3	100.0

Coefficient of Utilization



REPORT NUMBER: P483889

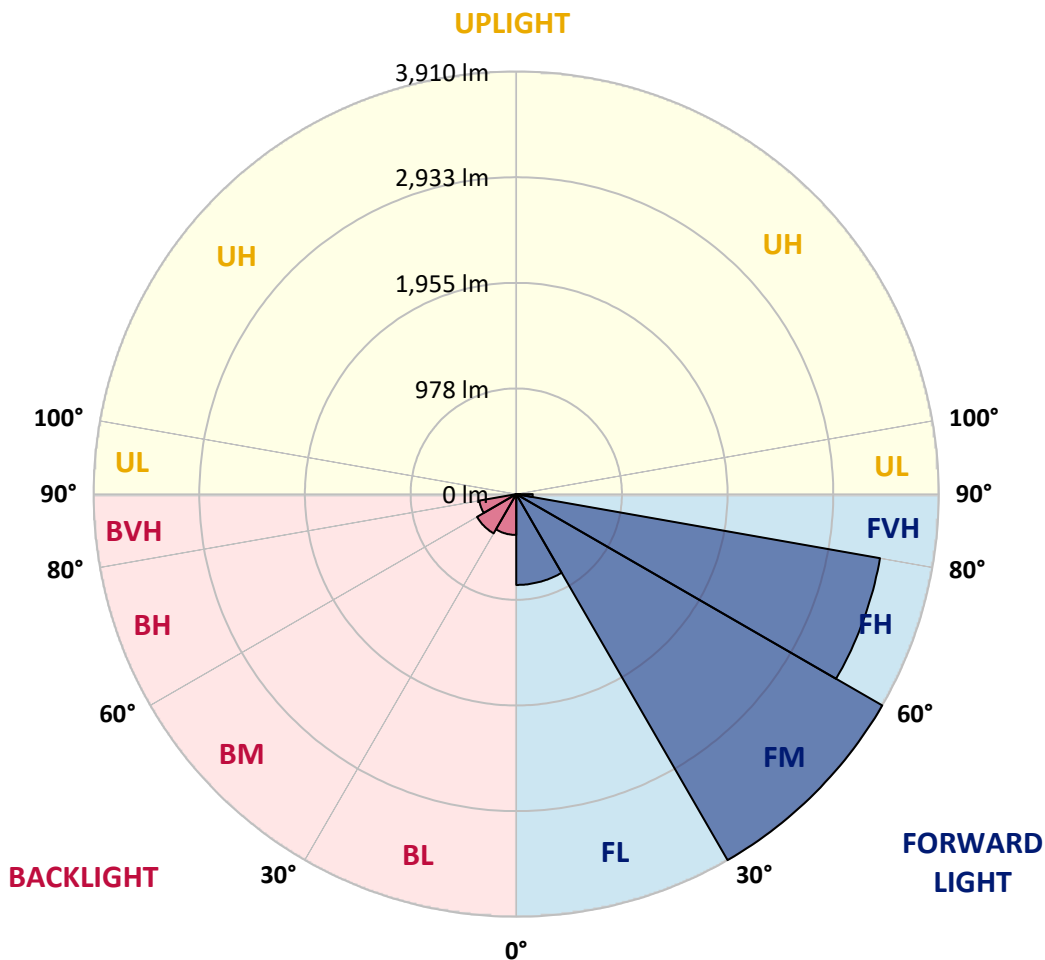
CATALOG NUMBER: IFLD-S-SA3A-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.4	8.9			
FM (30°-60°)	3910.4	41.3			
FH (60°-80°)	3417.6	36.1			G2/5000
FVH (80°-90°)	153.1	1.6			G2/225
BL (0°-30°)	377.7	4.0	B1/500		
BM (30°-60°)	419.2	4.4	B1/1000		
BH (60°-80°)	347.6	3.7	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





REPORT NUMBER: P483889

CATALOG NUMBER: IFLD-S-SA3A-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7
2.5°	2299.5	2317.4	2322.5	2340.4	2349.3	2387.7	2409.4	2422.2	2415.8	2429.8	2431.1
5°	2136.0	2125.8	2152.6	2171.8	2212.7	2279.1	2346.8	2399.2	2423.4	2446.4	2442.6
7.5°	1961.0	1955.9	1982.7	2026.1	2063.2	2143.7	2252.3	2381.3	2376.2	2432.4	2449.0
10°	1840.9	1846.0	1854.9	1898.4	1953.3	2035.1	2170.5	2290.6	2317.4	2436.2	2469.4
12.5°	1731.0	1740.0	1756.6	1801.3	1865.2	1949.5	2081.1	2221.6	2262.5	2414.5	2480.9
15°	1695.3	1674.8	1708.0	1741.2	1807.7	1883.1	1994.2	2169.2	2187.1	2388.9	2500.1
17.5°	1665.9	1653.1	1668.4	1695.3	1765.5	1826.8	1931.6	2113.0	2146.2	2378.7	2497.5
20°	1674.8	1663.3	1669.7	1690.1	1722.1	1779.6	1876.7	2059.3	2095.1	2331.5	2493.7
22.5°	1700.4	1709.3	1697.8	1702.9	1713.1	1742.5	1847.3	2021.0	2051.7	2322.5	2515.4
25°	1815.3	1800.0	1784.7	1778.3	1718.3	1731.0	1838.3	2018.5	2040.2	2290.6	2497.5
27.5°	1935.4	1922.7	1916.3	1879.2	1797.5	1759.1	1839.6	1982.7	2012.1	2277.8	2475.8
30°	2081.1	2097.7	2072.1	2027.4	1913.7	1819.2	1853.7	1964.8	2005.7	2229.3	2461.8
32.5°	2234.4	2243.3	2256.1	2222.9	2076.0	1909.9	1895.8	1981.4	1984.0	2229.3	2429.8
35°	2408.1	2395.3	2428.6	2431.1	2302.1	2070.8	1976.3	1992.9	2019.7	2219.0	2418.3
37.5°	2557.6	2579.3	2617.6	2678.9	2546.1	2298.2	2101.5	2046.6	2058.1	2266.3	2427.3
40°	2721.1	2742.8	2829.7	2891.0	2815.6	2553.7	2291.9	2171.8	2180.7	2336.6	2473.3
42.5°	2901.2	2943.4	3046.9	3154.2	3133.7	2878.2	2537.1	2355.7	2351.9	2511.6	2567.8
45°	3145.2	3201.4	3313.9	3437.8	3455.7	3250.0	2864.2	2630.4	2643.2	2740.3	2763.3
47.5°	3485.1	3482.5	3592.4	3730.3	3833.8	3635.8	3255.1	2999.6	2998.3	3101.8	3053.3
50°	3813.4	3814.7	3844.0	4003.7	4272.0	4171.1	3739.3	3490.2	3476.1	3527.2	3449.3
52.5°	3965.4	3947.5	3925.8	4118.7	4609.3	4845.6	4352.5	4045.9	4034.4	4003.7	3983.3
55°	3805.7	3812.1	3810.8	4011.4	4786.8	5557.2	5139.4	4657.8	4638.6	4542.8	4570.9
57.5°	3293.4	3273.0	3317.7	3630.7	4583.7	6042.6	6264.9	5429.4	5379.6	5061.5	4997.6
60°	2451.5	2457.9	2495.0	2864.2	4079.1	6144.8	7341.9	6335.2	6120.6	5426.9	5338.7
62.5°	1711.9	1699.1	1713.1	1920.1	2916.6	5736.0	8070.0	7436.4	7229.4	5842.1	5791.0
65°	1225.1	1208.5	1264.7	1391.2	1751.5	4385.7	8173.5	8903.0	8717.7	6505.1	6382.5
67.5°	881.5	878.9	944.1	1174.0	1244.3	2525.6	7407.0	10231.6	10119.2	7292.0	6742.7
69°	729.5	730.7	793.3	1051.4	1188.1	1724.6	6373.5	10460.3	10439.8	7698.3	6675.0
70°	636.2	641.3	714.1	978.6	1165.1	1418.0	5494.6	10235.4	10215.0	7777.5	6451.4
72.5°	392.2	396.0	491.8	784.4	1107.6	1157.4	3285.8	8374.1	8444.4	7414.7	5558.5
75°	187.8	189.1	258.1	567.2	1068.0	1097.4	1760.4	6179.3	6327.5	5986.4	4343.5
77.5°	99.6	99.6	123.9	301.5	864.9	1032.2	1045.0	4358.9	4481.5	3785.3	2469.4
80°	49.8	51.1	75.4	157.1	536.6	1011.8	816.3	2599.7	2666.2	1544.5	769.1
82.5°	19.2	20.4	35.8	94.5	278.5	854.7	716.7	1278.8	1262.2	361.5	187.8
85°	2.6	2.6	12.8	56.2	118.8	376.9	591.5	534.0	516.1	79.2	90.7
87.5°	0.0	0.0	2.6	16.6	35.8	109.9	228.7	146.9	163.5	21.7	44.7
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: P483889

CATALOG NUMBER: IFLD-S-SA3A-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7	2387.7
2.5°	2424.7	2397.9	2357.0	2317.4	2275.2	2224.1	2167.9	2147.5	2111.7	2109.2	2129.6
5°	2422.2	2378.7	2307.2	2222.9	2102.8	2012.1	1913.7	1842.2	1787.2	1751.5	1760.4
7.5°	2434.9	2382.6	2258.6	2077.2	1922.7	1742.5	1590.5	1485.7	1389.9	1342.7	1337.6
10°	2414.5	2344.2	2162.8	1908.6	1681.2	1429.5	1207.2	1066.7	923.6	871.3	873.8
12.5°	2426.0	2327.6	2059.3	1734.9	1421.9	1094.8	829.1	637.5	503.3	459.9	454.8
15°	2433.7	2291.9	1959.7	1526.6	1134.4	746.1	480.3	361.5	319.4	311.7	310.4
17.5°	2404.3	2248.4	1819.2	1320.9	840.6	453.5	319.4	295.1	287.4	282.3	279.8
20°	2403.0	2222.9	1697.8	1110.2	560.8	309.2	275.9	267.0	255.5	251.7	251.7
22.5°	2381.3	2169.2	1552.2	878.9	357.7	265.7	247.8	233.8	221.0	215.9	214.6
25°	2374.9	2106.6	1415.5	660.5	272.1	237.6	219.7	199.3	184.0	176.3	172.5
27.5°	2357.0	2053.0	1277.5	465.0	237.6	212.1	189.1	167.4	149.5	138.0	136.7
30°	2293.1	1996.8	1124.2	321.9	215.9	187.8	162.2	136.7	118.8	111.1	108.6
32.5°	2266.3	1944.4	956.9	247.8	196.7	166.1	136.7	113.7	99.6	92.0	90.7
35°	2234.4	1867.7	794.6	215.9	178.9	144.4	115.0	95.8	84.3	77.9	77.9
37.5°	2238.2	1806.4	642.6	195.5	159.7	123.9	98.4	81.8	71.5	65.2	65.2
40°	2226.7	1757.9	499.5	177.6	141.8	106.0	83.0	69.0	60.0	53.7	52.4
42.5°	2279.1	1745.1	376.9	162.2	123.9	90.7	71.5	58.8	49.8	42.2	42.2
45°	2367.2	1765.5	293.8	148.2	106.0	77.9	61.3	48.5	39.6	34.5	33.2
47.5°	2602.3	1846.0	230.0	136.7	90.7	67.7	51.1	39.6	31.9	26.8	25.6
50°	2943.4	2026.1	195.5	120.1	76.7	57.5	42.2	30.7	25.6	20.4	19.2
52.5°	3428.8	2328.9	177.6	106.0	63.9	47.3	33.2	24.3	19.2	15.3	14.1
55°	3957.7	2707.0	161.0	89.4	53.7	38.3	26.8	19.2	14.1	10.2	8.9
57.5°	4370.4	3034.1	146.9	74.1	43.4	30.7	20.4	14.1	10.2	6.4	5.1
60°	4821.3	3264.0	129.0	58.8	35.8	23.0	15.3	10.2	7.7	3.8	3.8
62.5°	5286.3	3533.6	106.0	46.0	28.1	17.9	11.5	7.7	5.1	1.3	1.3
65°	5932.8	3744.4	81.8	35.8	21.7	12.8	8.9	6.4	2.6	0.0	0.0
67.5°	6115.5	3640.9	60.0	28.1	15.3	8.9	6.4	3.8	1.3	0.0	0.0
69°	5932.8	3279.4	52.4	24.3	12.8	7.7	5.1	2.6	1.3	0.0	0.0
70°	5599.3	2998.3	46.0	20.4	11.5	7.7	3.8	2.6	1.3	0.0	0.0
72.5°	4683.4	2299.5	35.8	15.3	8.9	6.4	3.8	2.6	0.0	0.0	0.0
75°	3435.2	1420.6	26.8	11.5	7.7	5.1	3.8	2.6	0.0	0.0	0.0
77.5°	1840.9	518.7	19.2	7.7	5.1	3.8	3.8	2.6	0.0	0.0	0.0
80°	504.6	153.3	14.1	5.1	3.8	2.6	2.6	1.3	0.0	0.0	0.0
82.5°	138.0	39.6	8.9	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
85°	74.1	15.3	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	38.3	5.1	3.8	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0
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)