

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: P480223

Luminaire Tested: **IFLD-S-SA3A-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480223
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

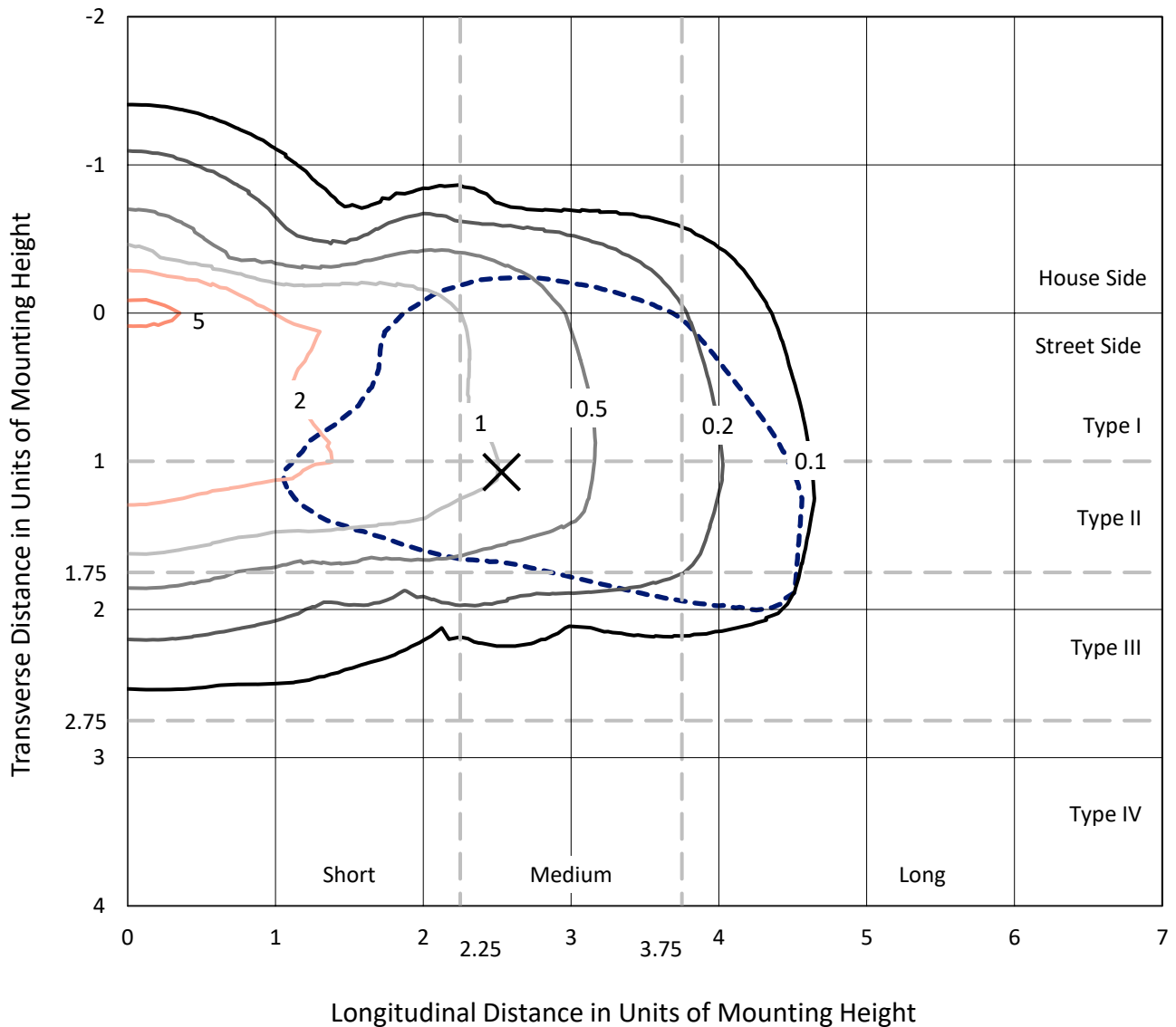
Lumens per Lamp: N/A
Luminaire Lumens: 10084.1 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

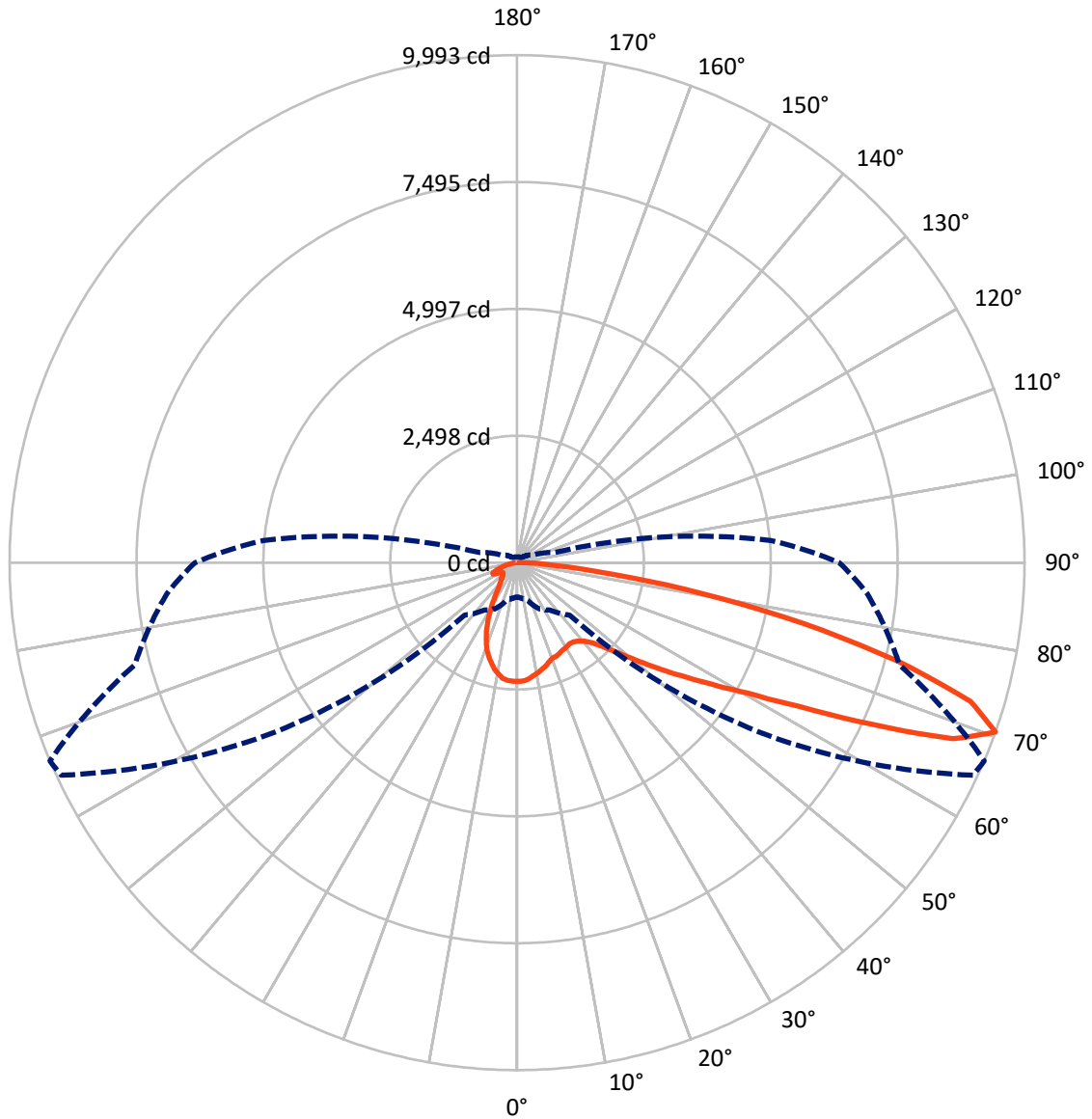
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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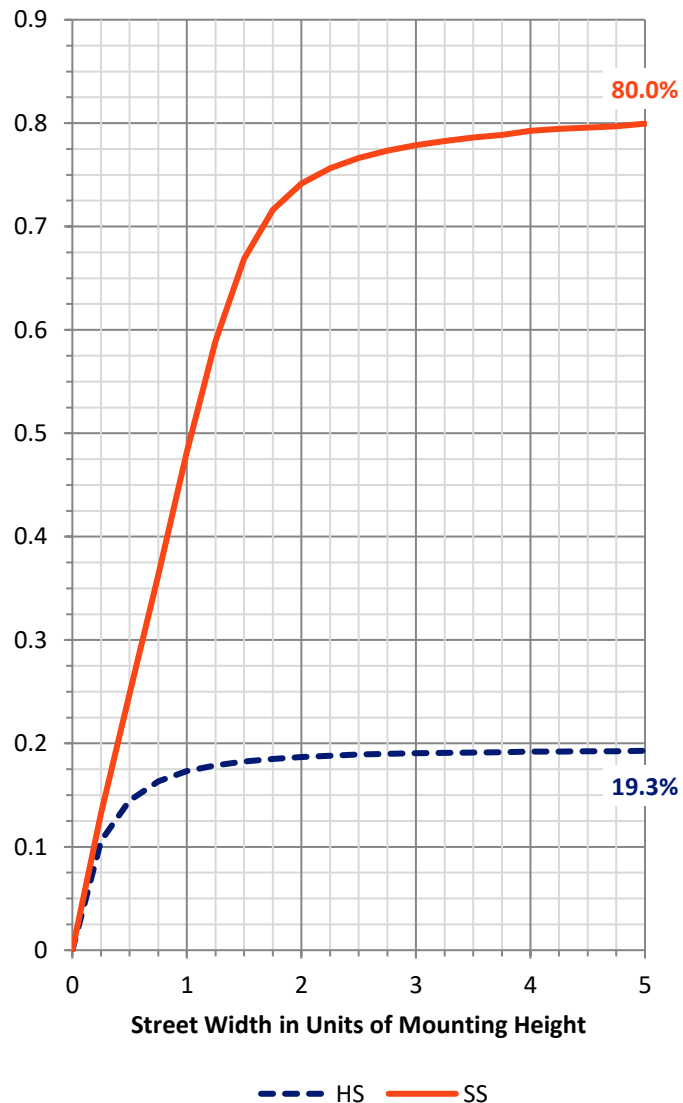
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1964.0	0.0	1964.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8120.2	0.0	8120.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	10084.1	0.0	10084.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.7	2.0
10°-20°	487.8	4.8
20°-30°	658.8	6.5
30°-40°	881.5	8.7
40°-50°	1296.2	12.9
50°-60°	2020.5	20.0
60°-70°	2488.9	24.7
70°-80°	1758.6	17.4
80°-90°	288.2	2.9
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°	10084.1	100.0
0°-180°	10084.1	100.0

Coefficient of Utilization



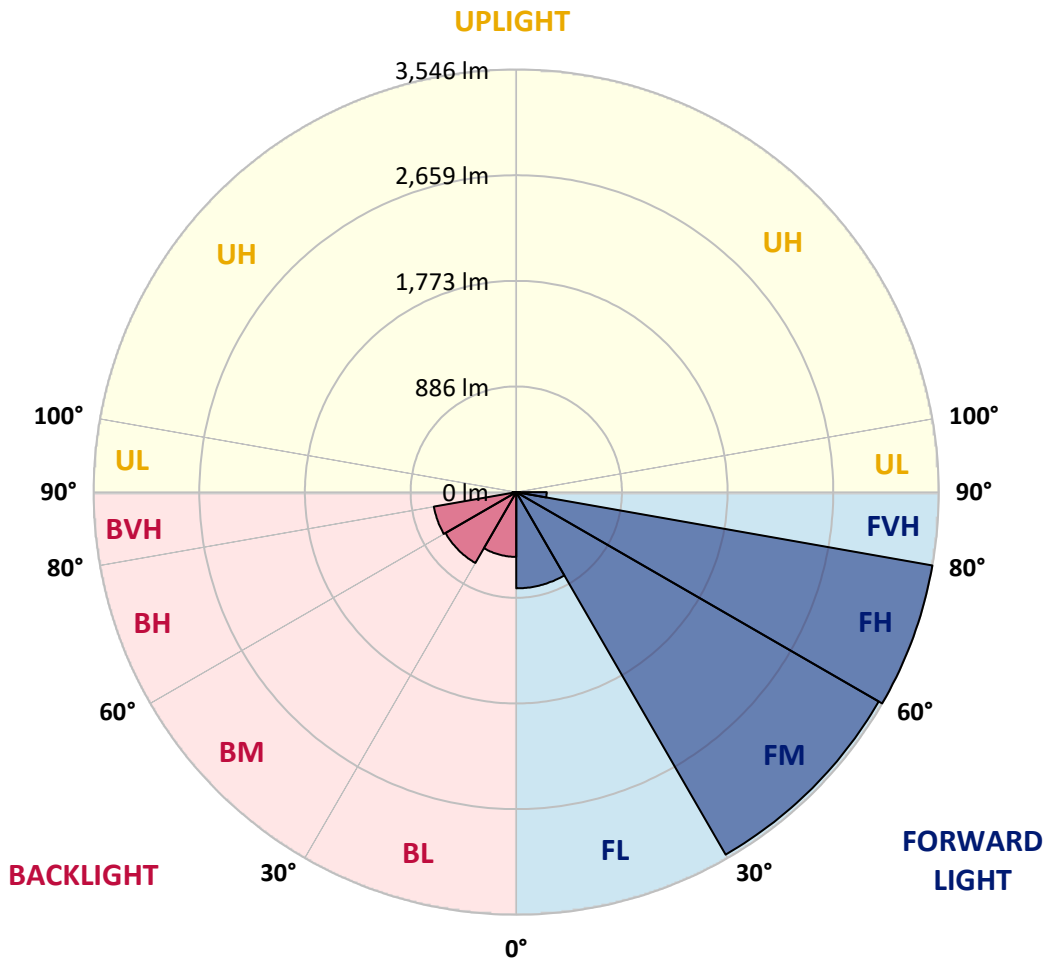
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.2	8.0			
FM (30°-60°)	3512.1	34.8			
FH (60°-80°)	3545.9	35.2			G2/5000
FVH (80°-90°)	255.0	2.5			G3/500
BL (0°-30°)	543.1	5.4	B2/1000		
BM (30°-60°)	686.1	6.8	B1/1000		
BH (60°-80°)	701.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	33.3	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4
2.5°	2173.7	2198.2	2207.2	2220.6	2255.2	2280.9	2296.5	2314.3	2335.6	2353.4	2364.6
5°	2021.8	2035.2	2056.5	2071.0	2114.5	2183.7	2230.6	2306.5	2304.3	2332.2	2374.6
7.5°	1874.5	1887.9	1897.9	1927.0	1989.5	2052.0	2138.0	2260.8	2251.8	2316.6	2382.5
10°	1782.9	1772.9	1776.2	1825.4	1874.5	1944.8	2053.1	2178.1	2210.5	2311.0	2404.8
12.5°	1697.0	1685.8	1712.6	1743.9	1804.1	1867.8	1997.3	2110.0	2159.2	2290.9	2414.8
15°	1643.4	1635.6	1669.1	1682.5	1753.9	1829.8	1921.4	2058.7	2112.3	2266.3	2399.2
17.5°	1613.2	1619.9	1632.2	1661.2	1707.0	1771.8	1872.2	2024.1	2047.5	2236.2	2395.8
20°	1618.8	1626.6	1627.7	1640.0	1671.3	1721.5	1824.2	1987.2	2002.9	2230.6	2404.8
22.5°	1663.5	1652.3	1656.8	1649.0	1657.9	1697.0	1787.4	1938.1	1998.4	2183.7	2385.8
25°	1730.5	1714.8	1712.6	1685.8	1669.1	1680.2	1780.7	1925.8	1964.9	2169.2	2384.7
27.5°	1848.8	1825.4	1825.4	1785.2	1717.1	1699.2	1761.7	1905.7	1940.3	2155.8	2359.0
30°	1962.7	1962.7	1963.8	1906.9	1830.9	1742.7	1769.5	1897.9	1920.3	2115.6	2324.4
32.5°	2101.1	2097.8	2092.2	2064.3	1947.0	1815.3	1807.5	1887.9	1899.0	2102.2	2314.3
35°	2236.2	2227.3	2270.8	2246.2	2126.8	1957.1	1846.6	1892.3	1916.9	2082.1	2283.1
37.5°	2337.8	2343.4	2433.8	2449.4	2346.7	2117.9	1957.1	1937.0	1960.4	2111.2	2283.1
40°	2469.5	2491.9	2576.7	2629.2	2566.7	2330.0	2132.4	2011.8	2028.5	2175.9	2332.2
42.5°	2642.6	2661.6	2769.9	2838.0	2820.1	2600.2	2305.4	2168.1	2154.7	2284.2	2405.9
45°	2871.4	2874.8	2984.2	3078.0	3114.8	2882.6	2580.1	2365.7	2354.5	2470.6	2541.0
47.5°	3143.9	3140.5	3208.6	3309.1	3408.4	3219.8	2896.0	2666.0	2625.8	2737.5	2765.4
50°	3407.3	3392.8	3408.4	3536.8	3727.7	3641.8	3280.1	3033.3	2993.1	3054.5	3102.5
52.5°	3552.5	3570.3	3527.9	3697.6	4067.1	4140.8	3789.1	3472.1	3437.5	3467.6	3551.3
55°	3450.9	3487.7	3459.8	3620.6	4215.6	4749.3	4447.8	3980.1	3935.4	3924.2	4061.6
57.5°	3018.8	3085.8	3091.4	3345.9	4164.3	5220.4	5374.5	4579.6	4512.6	4398.7	4540.5
60°	2317.7	2384.7	2436.0	2737.5	3724.4	5501.7	6448.5	5432.5	5211.5	4916.7	5001.6
62.5°	1624.4	1670.2	1721.5	1906.9	2871.4	5336.5	7377.3	6633.8	6226.3	5462.7	5568.7
65°	1183.4	1219.1	1271.6	1381.0	1764.0	4415.5	7808.3	8060.6	7674.3	6157.1	6143.7
67.5°	890.9	913.2	982.5	1157.7	1222.5	2727.4	7361.7	9567.8	9255.2	6928.5	6605.9
70°	674.3	693.3	758.1	998.1	1142.1	1462.5	5807.6	9903.8	9993.1	7793.8	6916.3
72.5°	464.4	485.6	558.2	831.7	1087.4	1160.0	3645.1	8997.3	9335.5	8149.9	6583.6
75°	284.7	299.2	341.6	630.8	1079.6	1134.3	2006.2	7372.9	7731.2	7530.3	5759.6
77.5°	201.0	199.8	207.7	369.5	935.6	1141.0	1237.0	5402.4	5750.7	5549.8	3908.6
80°	146.3	147.4	155.2	221.1	635.2	1160.0	974.6	3618.3	3722.2	2893.8	1541.8
82.5°	88.2	92.7	111.6	149.6	381.8	1047.2	901.0	2010.7	1881.2	928.9	424.2
85°	46.9	46.9	65.9	94.9	203.2	781.5	867.5	956.8	801.6	288.0	157.4
87.5°	11.2	11.2	19.0	38.0	81.5	374.0	591.7	380.7	304.8	97.1	64.8
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°	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4	2334.4
2.5°	2360.1	2346.7	2363.5	2330.0	2303.2	2304.3	2263.0	2260.8	2255.2	2226.2	2236.2
5°	2386.9	2375.8	2356.8	2319.9	2260.8	2201.6	2165.9	2120.1	2101.1	2091.1	2095.5
7.5°	2412.6	2392.5	2337.8	2286.4	2194.9	2083.2	2018.5	1957.1	1878.9	1870.0	1854.4
10°	2419.3	2376.9	2306.5	2197.1	2075.4	1951.5	1804.1	1690.3	1630.0	1583.1	1565.2
12.5°	2409.2	2391.4	2256.3	2115.6	1931.4	1737.2	1565.2	1404.5	1292.8	1234.8	1219.1
15°	2408.1	2376.9	2200.5	1991.7	1756.1	1502.7	1258.2	1065.1	947.8	899.8	899.8
17.5°	2409.2	2334.4	2134.6	1866.7	1549.6	1206.9	937.8	779.3	714.5	707.8	713.4
20°	2386.9	2303.2	2065.4	1719.3	1290.6	906.5	681.0	616.3	616.3	625.2	628.5
22.5°	2366.8	2256.3	1956.0	1537.3	1027.1	656.5	553.7	534.8	556.0	571.6	578.3
25°	2338.9	2217.2	1844.3	1348.6	781.5	529.2	481.2	485.6	505.7	533.7	531.4
27.5°	2298.7	2149.1	1711.5	1129.8	581.7	456.6	444.3	446.6	467.8	480.1	477.8
30°	2252.9	2079.9	1588.7	912.1	461.1	418.7	417.5	423.1	426.5	433.2	432.1
32.5°	2194.9	1988.4	1458.1	708.9	415.3	397.4	393.0	389.6	393.0	391.9	388.5
35°	2153.6	1939.2	1325.2	540.3	389.6	378.5	375.1	369.5	365.1	358.4	357.3
37.5°	2142.4	1890.1	1185.6	441.0	369.5	364.0	352.8	342.7	337.2	333.8	331.6
40°	2135.7	1857.7	1049.4	387.4	352.8	347.2	333.8	320.4	314.8	311.5	312.6
42.5°	2159.2	1839.9	911.0	360.6	338.3	328.2	313.7	298.1	297.0	294.7	298.1
45°	2241.8	1862.2	782.6	341.6	323.8	307.0	288.0	280.2	279.1	276.9	279.1
47.5°	2429.3	1918.0	673.2	329.3	308.1	293.6	273.5	262.4	261.2	260.1	260.1
50°	2688.4	2089.9	581.7	314.8	298.1	278.0	259.0	246.7	244.5	240.0	240.0
52.5°	3094.7	2379.1	527.0	307.0	280.2	263.5	243.4	230.0	224.4	219.9	219.9
55°	3552.5	2737.5	516.9	293.6	261.2	245.6	227.8	214.4	208.8	203.2	201.0
57.5°	4073.8	3212.0	588.4	284.7	247.8	227.8	207.7	195.4	190.9	185.3	183.1
60°	4559.5	3685.3	810.5	271.3	235.6	211.0	190.9	178.6	173.0	167.5	167.5
62.5°	5121.0	4271.4	1186.8	271.3	224.4	193.1	173.0	164.1	160.8	155.2	154.1
65°	5785.3	4877.7	1461.4	288.0	221.1	177.5	156.3	147.4	144.0	140.7	139.6
67.5°	6291.1	5226.0	1257.1	332.7	235.6	164.1	139.6	134.0	131.7	128.4	126.2
70°	6344.6	5013.9	758.1	359.5	250.1	150.7	125.0	119.5	119.5	116.1	113.9
72.5°	5863.5	4449.0	510.2	320.4	226.6	135.1	110.5	106.1	103.8	101.6	100.5
75°	4906.7	3773.5	403.0	255.7	174.2	111.6	96.0	91.5	88.2	87.1	84.8
77.5°	3295.7	2452.8	298.1	199.8	128.4	90.4	80.4	75.9	72.6	71.5	68.1
80°	1266.0	934.4	192.0	145.1	90.4	71.5	63.6	59.2	56.9	53.6	51.4
82.5°	372.9	302.6	107.2	89.3	58.1	49.1	45.8	42.4	39.1	35.7	34.6
85°	154.1	138.4	65.9	46.9	35.7	29.0	26.8	23.4	20.1	17.9	15.6
87.5°	71.5	59.2	30.1	17.9	12.3	6.7	3.3	1.1	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)