

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: P480220

Luminaire Tested: **IFLD-S-SA2C-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480220
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

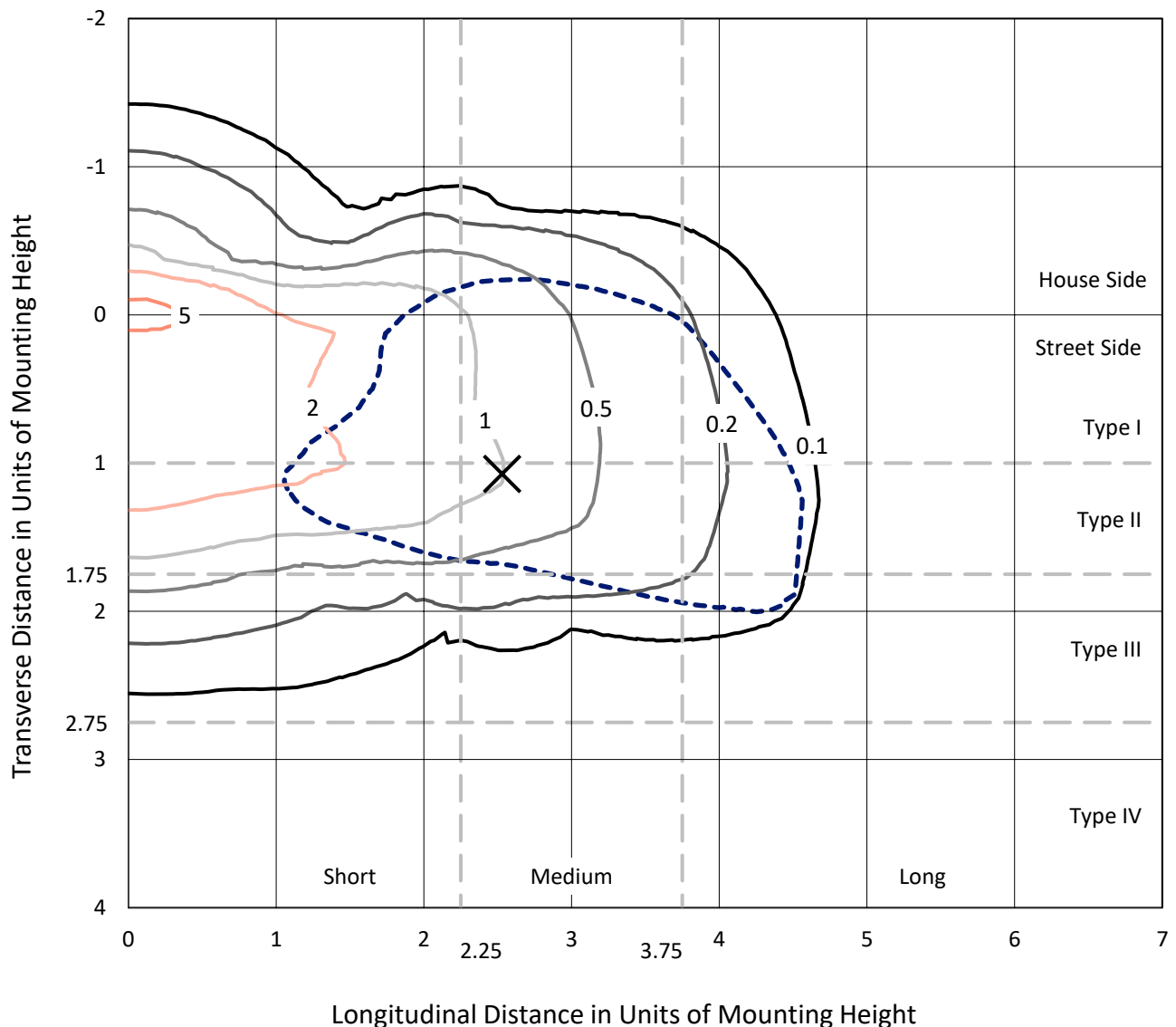
Lumens per Lamp: N/A
Luminaire Lumens: 10417.5 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
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

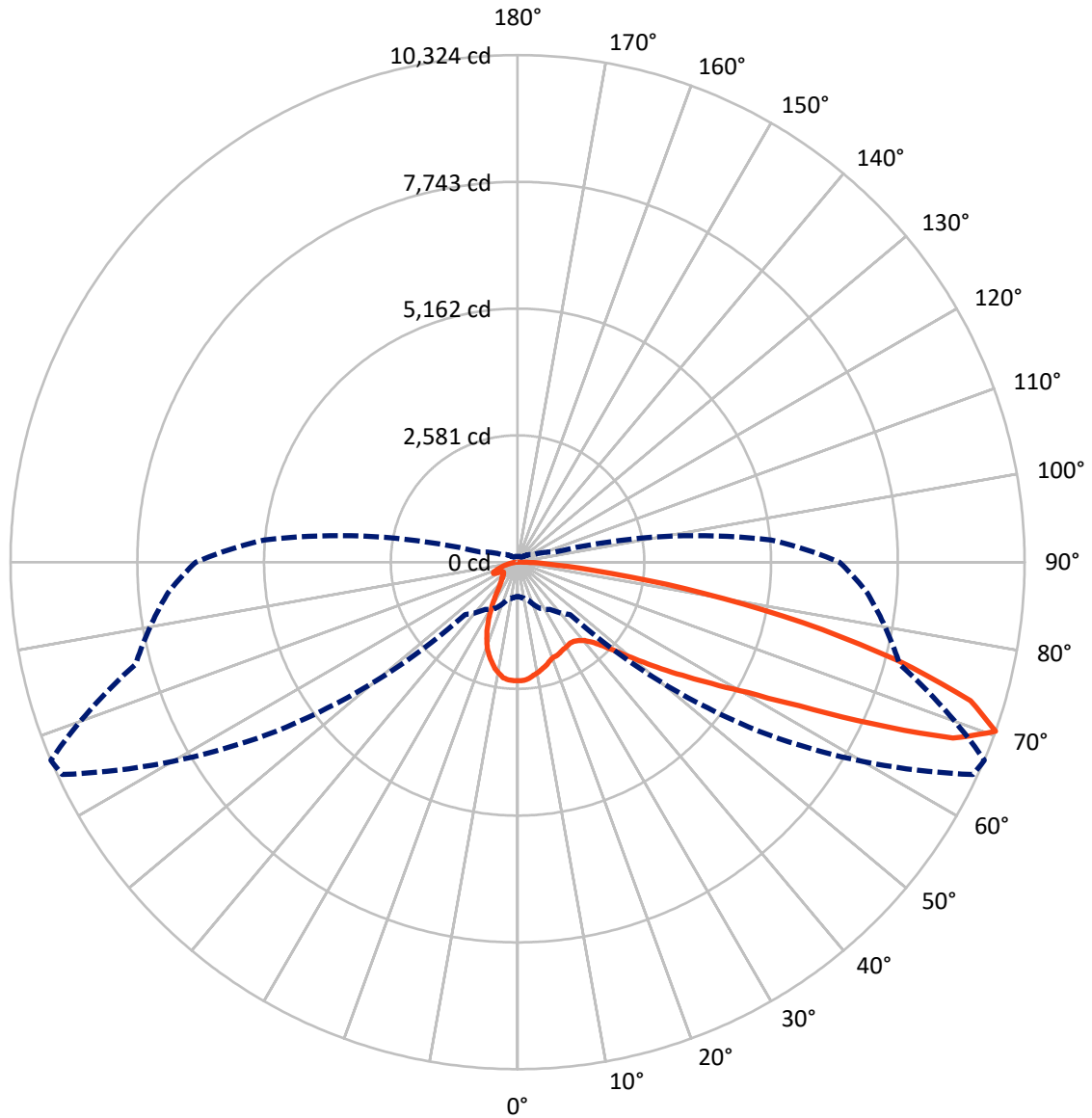
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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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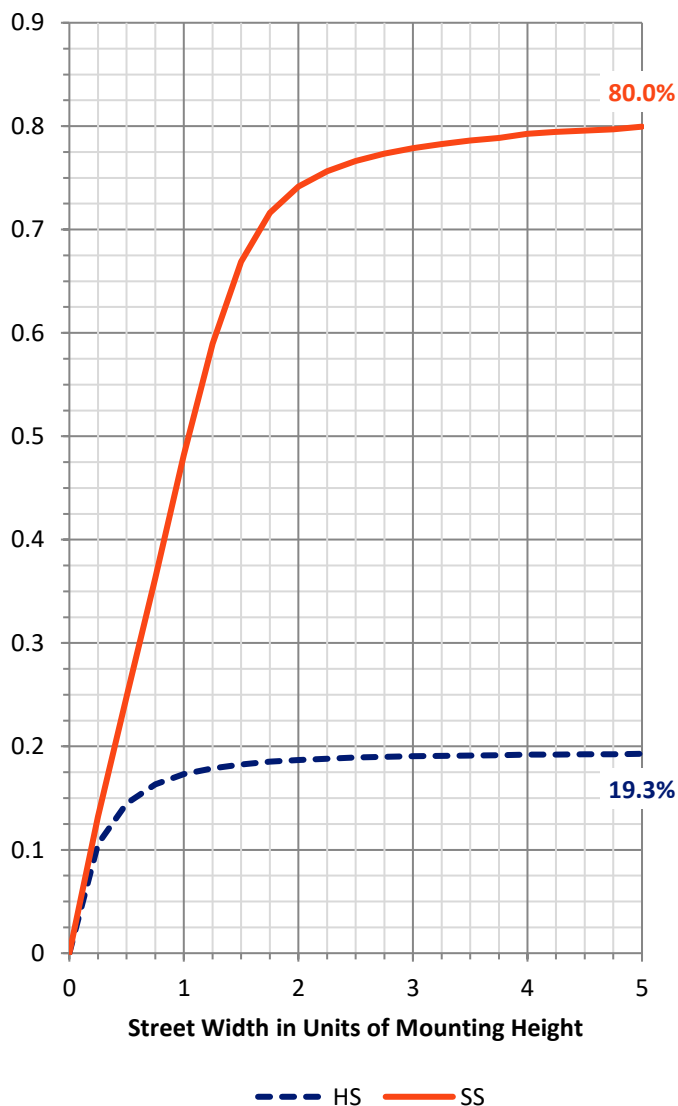
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2028.9	0.0	2028.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8388.6	0.0	8388.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	10417.5	0.0	10417.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	2.0
10°-20°	503.9	4.8
20°-30°	680.5	6.5
30°-40°	910.6	8.7
40°-50°	1339.1	12.9
50°-60°	2087.3	20.0
60°-70°	2571.2	24.7
70°-80°	1816.7	17.4
80°-90°	297.8	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°	10417.5	100.0
0°-180°	10417.5	100.0

Coefficient of Utilization



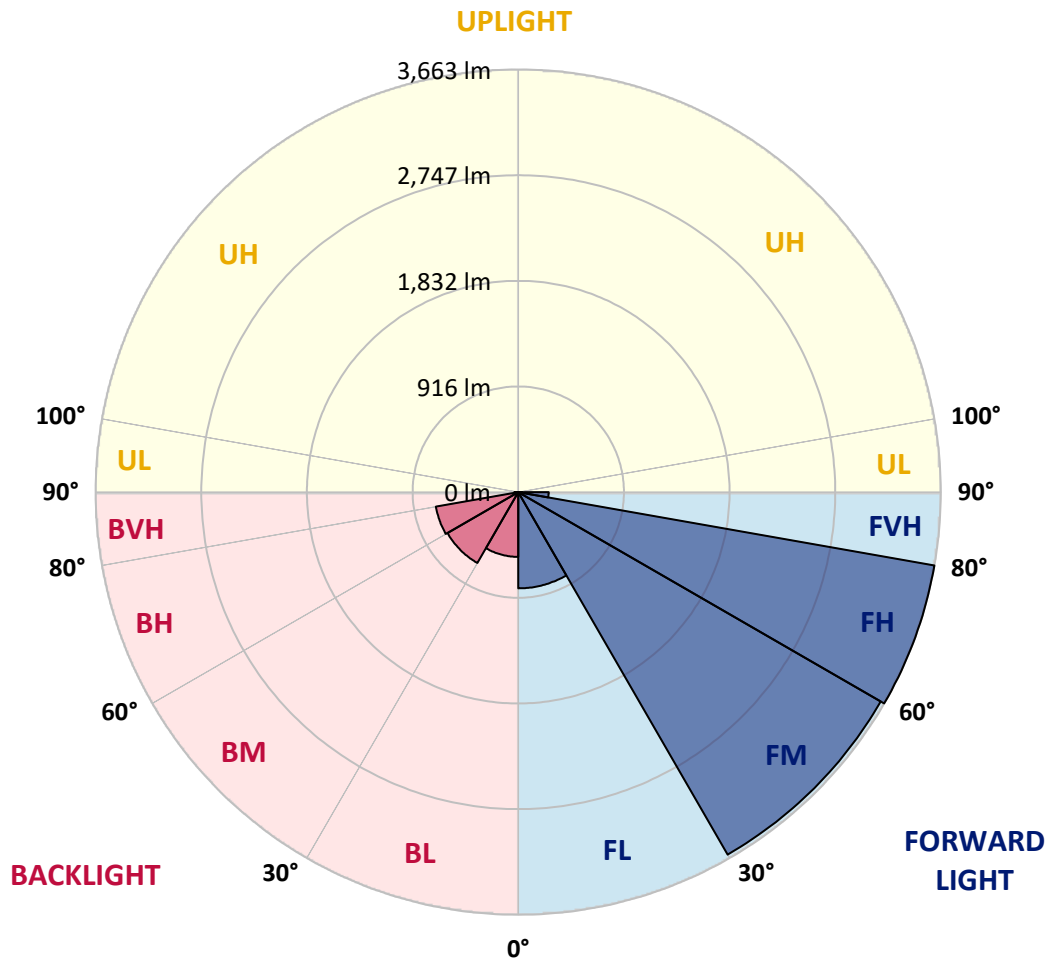
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.8	8.0			
FM (30°-60°)	3628.2	34.8			
FH (60°-80°)	3663.1	35.2			G2/5000
FVH (80°-90°)	263.4	2.5			G3/500
BL (0°-30°)	561.1	5.4	B2/1000		
BM (30°-60°)	708.7	6.8	B1/1000		
BH (60°-80°)	724.8	7.0	B2/1000		G2/1000
BVH (80°-90°)	34.4	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°	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6
2.5°	2245.5	2270.9	2280.1	2294.0	2329.7	2356.3	2372.4	2390.9	2412.8	2431.2	2442.8
5°	2088.7	2102.5	2124.4	2139.4	2184.4	2255.9	2304.4	2382.8	2380.5	2409.3	2453.1
7.5°	1936.5	1950.3	1960.7	1990.7	2055.2	2119.8	2208.6	2335.5	2326.3	2393.2	2461.2
10°	1841.9	1831.5	1835.0	1885.7	1936.5	2009.1	2121.0	2250.2	2283.6	2387.4	2484.3
12.5°	1753.1	1741.5	1769.2	1801.5	1863.8	1929.5	2063.3	2179.8	2230.6	2366.6	2494.7
15°	1697.7	1689.6	1724.2	1738.1	1811.9	1890.3	1984.9	2126.8	2182.1	2341.3	2478.5
17.5°	1666.6	1673.5	1686.2	1716.2	1763.5	1830.3	1934.1	2091.0	2115.2	2310.1	2475.1
20°	1672.3	1680.4	1681.6	1694.3	1726.5	1778.4	1884.6	2052.9	2069.1	2304.4	2484.3
22.5°	1718.5	1706.9	1711.6	1703.5	1712.7	1753.1	1846.5	2002.2	2064.5	2255.9	2464.7
25°	1787.7	1771.5	1769.2	1741.5	1724.2	1735.8	1839.6	1989.5	2029.9	2240.9	2463.5
27.5°	1909.9	1885.7	1885.7	1844.2	1773.8	1755.4	1820.0	1968.7	2004.5	2227.1	2437.0
30°	2027.6	2027.6	2028.7	1969.9	1891.5	1800.4	1828.0	1960.7	1983.7	2185.6	2401.2
32.5°	2170.6	2167.1	2161.4	2132.5	2011.4	1875.3	1867.3	1950.3	1961.8	2171.7	2390.9
35°	2310.1	2300.9	2345.9	2320.5	2197.1	2021.8	1907.6	1954.9	1980.3	2151.0	2358.6
37.5°	2415.1	2420.9	2514.3	2530.4	2424.3	2187.9	2021.8	2001.0	2025.3	2181.0	2358.6
40°	2551.2	2574.2	2661.9	2716.1	2651.5	2407.0	2202.9	2078.3	2095.6	2247.9	2409.3
42.5°	2729.9	2749.6	2861.4	2931.8	2913.3	2686.1	2381.6	2239.8	2225.9	2359.7	2485.4
45°	2966.4	2969.8	3082.9	3179.7	3217.8	2977.9	2665.4	2443.9	2432.4	2552.3	2625.0
47.5°	3247.8	3244.3	3314.7	3418.5	3521.1	3326.2	2991.8	2754.2	2712.6	2828.0	2856.8
50°	3520.0	3505.0	3521.1	3653.8	3851.0	3762.2	3388.5	3133.6	3092.1	3155.5	3205.1
52.5°	3669.9	3688.4	3644.5	3819.8	4201.6	4277.7	3914.4	3586.9	3551.1	3582.3	3668.8
55°	3565.0	3603.0	3574.2	3740.3	4355.0	4906.3	4594.9	4111.6	4065.5	4054.0	4195.8
57.5°	3118.6	3187.8	3193.6	3456.5	4301.9	5393.0	5552.2	4731.0	4661.8	4544.1	4690.6
60°	2394.3	2463.5	2516.6	2828.0	3847.5	5683.6	6661.7	5612.1	5383.8	5079.3	5166.9
62.5°	1678.1	1725.4	1778.4	1969.9	2966.4	5512.9	7621.2	6853.1	6432.2	5643.3	5752.8
65°	1222.5	1259.4	1313.6	1426.7	1822.3	4561.4	8066.4	8327.1	7928.0	6360.6	6346.8
67.5°	920.4	943.4	1014.9	1196.0	1262.9	2817.6	7605.1	9884.1	9561.2	7157.6	6824.3
70°	696.6	716.2	783.1	1031.1	1179.9	1510.9	5999.7	10231.2	10323.5	8051.4	7144.9
72.5°	479.8	501.7	576.7	859.2	1123.3	1198.3	3765.6	9294.7	9644.2	8419.4	6801.2
75°	294.1	309.1	352.9	651.6	1115.3	1171.8	2072.5	7616.6	7986.9	7779.3	5950.1
77.5°	207.6	206.4	214.5	381.8	966.5	1178.7	1277.9	5581.0	5940.8	5733.2	4037.8
80°	151.1	152.2	160.3	228.4	656.2	1198.3	1006.9	3738.0	3845.2	2989.4	1592.8
82.5°	91.1	95.7	115.3	154.5	394.4	1081.8	930.7	2077.2	1943.4	959.6	438.3
85°	48.4	48.4	68.0	98.0	209.9	807.3	896.1	988.4	828.1	297.6	162.6
87.5°	11.5	11.5	19.6	39.2	84.2	386.4	611.3	393.3	314.9	100.3	66.9
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°	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6	2411.6
2.5°	2438.2	2424.3	2441.6	2407.0	2379.3	2380.5	2337.8	2335.5	2329.7	2299.8	2310.1
5°	2465.8	2454.3	2434.7	2396.6	2335.5	2274.4	2237.5	2190.2	2170.6	2160.2	2164.8
7.5°	2492.4	2471.6	2415.1	2362.0	2267.5	2152.1	2085.2	2021.8	1941.1	1931.8	1915.7
10°	2499.3	2455.5	2382.8	2269.8	2144.1	2016.0	1863.8	1746.2	1683.9	1635.4	1617.0
12.5°	2488.9	2470.4	2330.9	2185.6	1995.3	1794.6	1617.0	1450.9	1335.6	1275.6	1259.4
15°	2487.7	2455.5	2273.2	2057.6	1814.2	1552.4	1299.8	1100.3	979.2	929.6	929.6
17.5°	2488.9	2411.6	2205.2	1928.4	1600.8	1246.8	968.8	805.0	738.1	731.2	737.0
20°	2465.8	2379.3	2133.7	1776.1	1333.3	936.5	703.5	636.6	636.6	645.9	649.3
22.5°	2445.1	2330.9	2020.6	1588.1	1061.1	678.2	572.1	552.4	574.4	590.5	597.4
25°	2416.2	2290.5	1905.3	1393.2	807.3	546.7	497.1	501.7	522.5	551.3	549.0
27.5°	2374.7	2220.2	1768.1	1167.2	600.9	471.7	459.0	461.3	483.2	495.9	493.6
30°	2327.4	2148.7	1641.2	942.3	476.3	432.5	431.3	437.1	440.6	447.5	446.3
32.5°	2267.5	2054.1	1506.3	732.4	429.0	410.6	406.0	402.5	406.0	404.8	401.4
35°	2224.8	2003.3	1369.0	558.2	402.5	391.0	387.5	381.8	377.1	370.2	369.1
37.5°	2213.3	1952.6	1224.8	455.6	381.8	376.0	364.5	354.1	348.3	344.8	342.5
40°	2206.3	1919.2	1084.1	400.2	364.5	358.7	344.8	331.0	325.2	321.8	322.9
42.5°	2230.6	1900.7	941.1	372.5	349.5	339.1	324.1	307.9	306.8	304.5	307.9
45°	2315.9	1923.8	808.5	352.9	334.5	317.2	297.6	289.5	288.3	286.0	288.3
47.5°	2509.7	1981.4	695.5	340.2	318.3	303.3	282.6	271.0	269.9	268.7	268.7
50°	2777.2	2159.0	600.9	325.2	307.9	287.2	267.6	254.9	252.6	248.0	248.0
52.5°	3197.0	2457.8	544.4	317.2	289.5	272.2	251.4	237.6	231.8	227.2	227.2
55°	3669.9	2828.0	534.0	303.3	269.9	253.7	235.3	221.4	215.7	209.9	207.6
57.5°	4208.5	3318.1	607.8	294.1	256.0	235.3	214.5	201.8	197.2	191.5	189.1
60°	4710.2	3807.2	837.3	280.3	243.4	218.0	197.2	184.5	178.8	173.0	173.0
62.5°	5290.4	4412.7	1226.0	280.3	231.8	199.5	178.8	169.5	166.1	160.3	159.2
65°	5976.6	5038.9	1509.7	297.6	228.4	183.4	161.5	152.2	148.8	145.3	144.2
67.5°	6499.0	5398.8	1298.7	343.7	243.4	169.5	144.2	138.4	136.1	132.6	130.3
70°	6554.4	5179.6	783.1	371.4	258.3	155.7	129.2	123.4	123.4	119.9	117.6
72.5°	6057.3	4596.0	527.1	331.0	234.1	139.6	114.2	109.6	107.3	105.0	103.8
75°	5068.9	3898.3	416.4	264.1	179.9	115.3	99.2	94.6	91.1	90.0	87.7
77.5°	3404.6	2533.9	307.9	206.4	132.6	93.4	83.0	78.4	75.0	73.8	70.4
80°	1307.9	965.3	198.4	149.9	93.4	73.8	65.7	61.1	58.8	55.4	53.1
82.5°	385.2	312.6	110.7	92.3	60.0	50.7	47.3	43.8	40.4	36.9	35.8
85°	159.2	143.0	68.0	48.4	36.9	30.0	27.7	24.2	20.8	18.5	16.1
87.5°	73.8	61.1	31.1	18.5	12.7	6.9	3.5	1.2	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)