

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: P478153

Luminaire Tested: **IFLD-S-SA2C-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478153
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

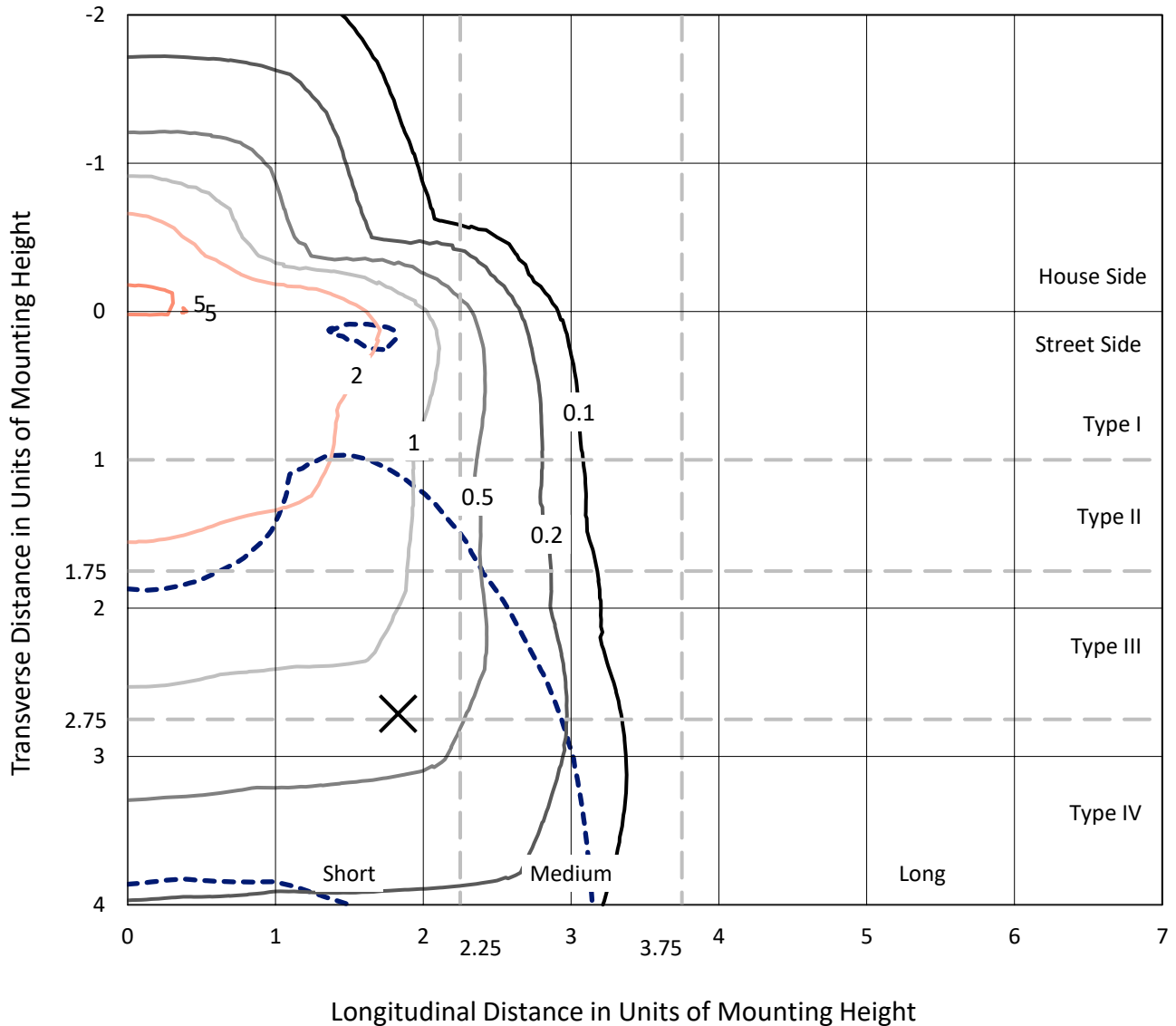
Lumens per Lamp: N/A
Luminaire Lumens: 14561.5 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

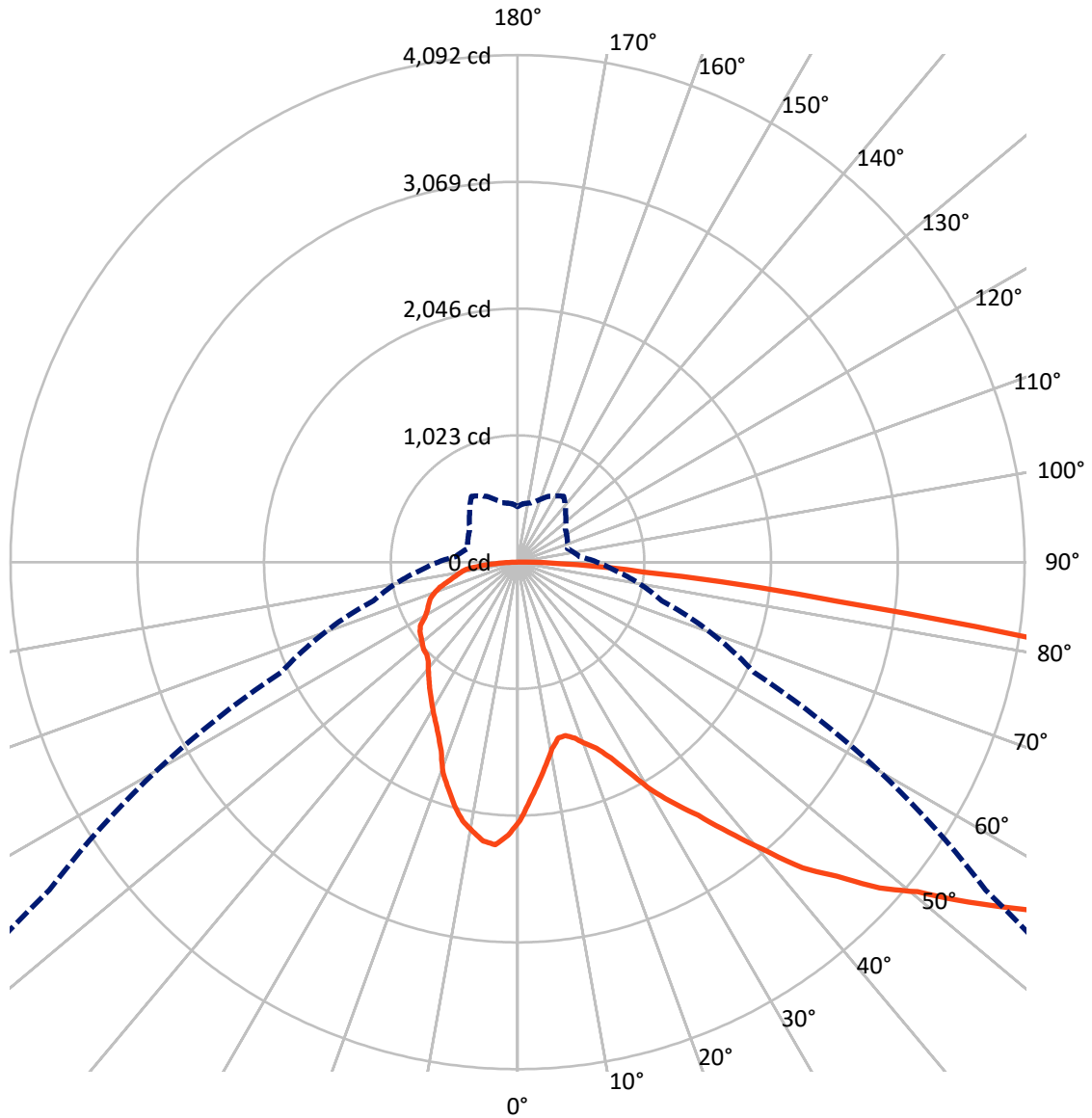
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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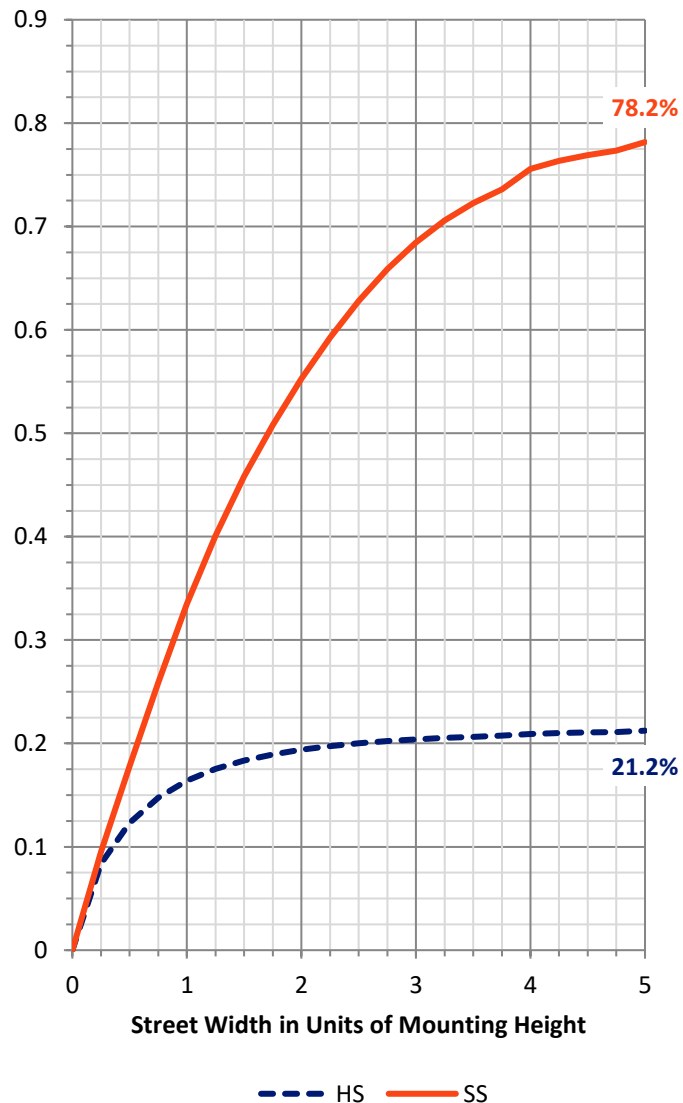
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3145.5	0.0	3145.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11416.0	0.0	11416.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	14561.5	0.0	14561.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	1.3
10°-20°	539.2	3.7
20°-30°	887.5	6.1
30°-40°	1327.2	9.1
40°-50°	1967.6	13.5
50°-60°	2835.5	19.5
60°-70°	3618.4	24.8
70°-80°	2815.7	19.3
80°-90°	377.7	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°	14561.5	100.0
0°-180°	14561.5	100.0

Coefficient of Utilization



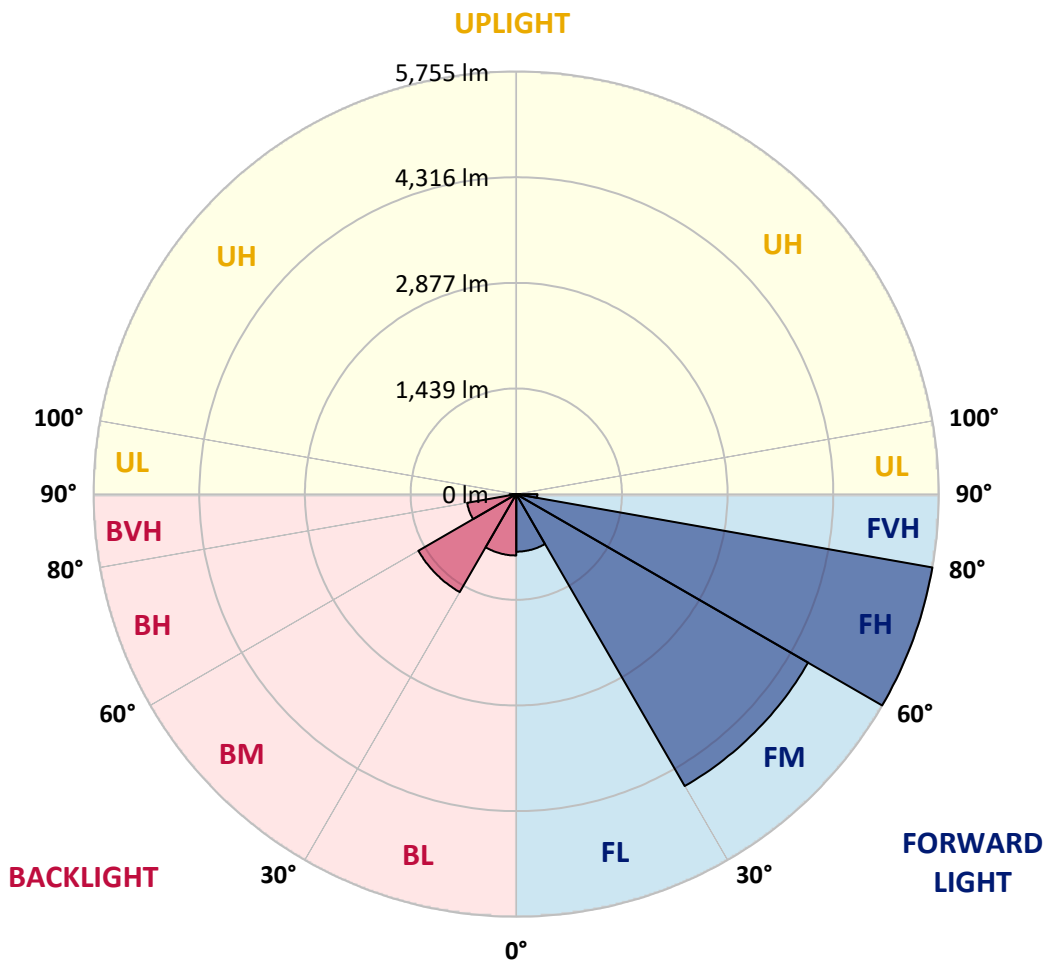
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.7	5.4			
FM (30°-60°)	4589.9	31.5			
FH (60°-80°)	5755.0	39.5			G3/7500
FVH (80°-90°)	287.5	2.0			G3/500
BL (0°-30°)	835.7	5.7	B2/1000		
BM (30°-60°)	1540.3	10.6	B2/2500		
BH (60°-80°)	679.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	90.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6
2.5°	1870.5	1876.7	1896.7	1901.3	1922.9	1910.6	1936.7	1982.9	2009.1	2047.6	2093.8
5°	1722.7	1696.6	1708.9	1756.6	1781.3	1787.4	1815.1	1893.6	1942.9	1999.9	2086.1
7.5°	1548.8	1544.2	1568.8	1599.6	1648.9	1653.5	1715.1	1784.3	1885.9	2012.2	2113.8
10°	1430.2	1450.2	1464.1	1496.4	1530.3	1530.3	1608.8	1728.9	1844.4	1966.0	2120.0
12.5°	1424.1	1411.8	1414.8	1431.8	1456.4	1487.2	1561.1	1668.9	1815.1	1956.8	2146.1
15°	1444.1	1448.7	1421.0	1442.6	1451.8	1462.6	1544.2	1665.8	1796.6	1989.1	2190.8
17.5°	1550.3	1524.1	1481.0	1461.0	1493.4	1493.4	1548.8	1644.2	1799.7	2006.0	2255.4
20°	1633.5	1633.5	1562.6	1541.1	1564.2	1559.6	1598.0	1668.9	1815.1	2039.9	2327.8
22.5°	1773.6	1793.6	1676.6	1631.9	1630.4	1642.7	1676.6	1736.6	1858.2	2087.6	2397.1
25°	1975.2	1979.9	1844.4	1798.2	1748.9	1768.9	1775.1	1835.1	1896.7	2143.0	2475.6
27.5°	2200.0	2196.9	2072.2	1956.8	1924.4	1929.0	1895.2	1935.2	1953.7	2160.0	2588.0
30°	2449.4	2421.7	2327.8	2164.6	2138.4	2109.2	2035.3	2033.7	2072.2	2255.4	2743.5
32.5°	2612.6	2577.2	2512.5	2395.5	2323.2	2326.2	2209.2	2207.7	2173.8	2360.1	2878.9
35°	2772.7	2718.8	2701.9	2581.8	2509.5	2517.2	2423.2	2410.9	2349.3	2518.7	3102.2
37.5°	2965.2	2917.4	2943.6	2852.8	2763.5	2726.5	2683.4	2668.0	2588.0	2741.9	3407.0
40°	3177.6	3162.2	3145.3	3100.6	3046.8	3049.8	3003.6	2988.3	2869.7	3011.3	3699.5
42.5°	3464.0	3405.5	3317.7	3347.0	3374.7	3403.9	3388.5	3348.5	3225.3	3285.4	4025.9
45°	3730.3	3653.3	3491.7	3500.9	3614.8	3637.9	3824.2	3819.6	3571.7	3633.3	4396.9
47.5°	3910.4	3875.0	3778.0	3767.3	3930.5	3928.9	4264.5	4264.5	3936.6	3979.7	4795.7
50°	4178.3	4085.9	4044.4	4098.3	4181.4	4238.4	4714.1	4743.3	4295.3	4341.5	5317.6
52.5°	4492.4	4376.9	4272.2	4410.8	4558.6	4595.5	5159.0	5146.7	4570.9	4761.8	5928.8
55°	4752.6	4694.1	4621.7	4701.8	4943.5	4989.7	5605.5	5491.6	4846.5	5109.7	6222.8
57.5°	5055.9	5091.3	5106.7	5086.7	5374.5	5446.9	6115.1	5788.7	5083.6	5343.8	6395.3
60°	5513.1	5534.7	5554.7	5602.4	5907.2	6008.8	6518.4	6161.3	5232.9	5479.2	6409.1
62.5°	6209.0	6125.8	6170.5	6335.2	6580.0	6695.5	7112.7	6423.0	5346.8	5560.8	5956.5
65°	7004.9	6892.5	6846.3	7058.8	7693.1	7600.7	7854.7	6618.5	5182.1	5256.0	5051.2
67.5°	7811.6	7824.0	7705.4	8131.9	8909.3	8909.3	8544.5	6712.4	4735.6	4259.9	3542.5
70°	8452.1	8490.6	8555.2	9382.0	10613.6	10799.9	9398.9	6327.5	3825.8	2835.8	1936.7
72.5°	8442.9	8327.4	8658.4	10181.0	12162.4	12006.9	9577.5	5003.5	2387.8	1388.7	888.3
73°	8253.5	8156.5	8518.3	10173.3	12225.5	12079.3	9446.6	4612.5	2106.1	1203.9	789.8
75°	6740.1	6564.6	7180.4	9214.2	11311.0	11423.4	8025.6	3008.3	1154.7	742.1	555.8
77.5°	3072.9	3149.9	3952.0	6181.3	8716.9	8849.3	5276.0	1300.9	632.8	520.4	409.5
80°	986.8	1036.1	1538.0	3072.9	5463.8	5702.5	2438.6	591.2	451.1	398.7	306.4
82.5°	377.2	375.6	645.1	1277.8	2589.5	2741.9	891.4	360.3	335.6	294.1	217.1
85°	132.4	138.6	243.2	505.0	1019.2	1066.9	309.4	200.1	232.5	197.1	124.7
87.5°	46.2	47.7	86.2	183.2	351.0	371.0	86.2	80.1	115.5	113.9	63.1
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°	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6
2.5°	2109.2	2123.0	2127.6	2183.1	2183.1	2183.1	2204.6	2204.6	2198.5	2183.1	2220.0
5°	2118.4	2143.0	2190.8	2238.5	2250.8	2261.6	2290.8	2266.2	2275.4	2260.0	2273.9
7.5°	2144.6	2178.5	2267.7	2297.0	2277.0	2300.1	2269.3	2252.4	2235.4	2241.6	2220.0
10°	2189.2	2232.3	2273.9	2327.8	2289.3	2266.2	2203.1	2187.7	2133.8	2115.3	2132.3
12.5°	2244.7	2297.0	2367.8	2347.8	2273.9	2207.7	2140.0	2075.3	2043.0	1996.8	2009.1
15°	2300.1	2360.1	2370.9	2337.0	2244.7	2161.5	2038.4	1947.5	1915.2	1873.6	1895.2
17.5°	2360.1	2417.1	2398.6	2310.9	2186.2	2059.9	1919.8	1830.5	1762.8	1736.6	1736.6
20°	2449.4	2477.1	2447.9	2267.7	2115.3	1949.1	1813.6	1712.0	1644.2	1633.5	1616.5
22.5°	2518.7	2563.3	2432.5	2204.6	2012.2	1804.3	1648.9	1610.4	1590.3	1573.4	1551.9
25°	2608.0	2606.4	2404.8	2146.1	1835.1	1631.9	1538.0	1534.9	1525.7	1519.5	1548.8
27.5°	2692.7	2657.3	2372.4	2001.4	1651.9	1501.1	1450.2	1484.1	1498.0	1488.7	1501.1
30°	2826.6	2768.1	2326.2	1847.5	1490.3	1368.7	1377.9	1424.1	1447.2	1461.0	1442.6
32.5°	2968.2	2878.9	2230.8	1687.3	1347.1	1285.5	1307.1	1354.8	1382.5	1397.9	1414.8
35°	3173.0	2965.2	2133.8	1478.0	1244.0	1234.7	1247.0	1273.2	1313.2	1324.0	1328.6
37.5°	3425.5	3096.0	2002.9	1310.2	1163.9	1174.7	1187.0	1196.2	1197.8	1217.8	1210.1
40°	3678.0	3206.9	1812.0	1150.0	1080.8	1139.3	1133.1	1116.2	1102.3	1083.8	1079.2
42.5°	3899.7	3303.9	1599.6	1014.6	1006.9	1102.3	1082.3	1039.2	1006.9	993.0	969.9
45°	4149.1	3440.9	1385.6	929.9	949.9	1057.7	1051.5	985.3	943.7	894.5	888.3
47.5°	4472.4	3584.1	1180.8	842.1	896.0	1040.7	1043.8	959.1	899.1	832.9	823.7
50°	4886.5	3790.4	1025.3	805.2	863.7	1016.1	1020.7	923.7	845.2	777.5	771.3
52.5°	5283.7	4001.3	896.0	748.2	842.1	986.8	997.6	891.4	800.6	715.9	720.5
55°	5483.9	3924.3	785.2	706.7	792.9	939.1	979.1	868.3	732.8	674.3	672.8
57.5°	5528.5	3734.9	697.4	663.5	751.3	888.3	948.4	799.0	702.0	652.8	646.6
60°	5382.2	3403.9	628.1	617.4	699.0	836.0	877.5	762.1	671.2	631.2	622.0
62.5°	5022.0	3060.6	580.4	595.8	654.3	779.0	832.9	735.9	642.0	614.3	594.3
65°	4118.3	2517.2	541.9	554.2	608.1	723.6	805.2	706.7	615.8	589.6	588.1
67.5°	2852.8	1735.1	511.1	534.2	571.2	683.6	777.5	674.3	581.9	572.7	560.4
70°	1461.0	925.3	471.1	489.6	531.1	632.8	728.2	640.4	546.5	545.0	529.6
72.5°	740.5	541.9	424.9	452.6	481.9	566.6	666.6	595.8	501.9	485.0	460.3
73°	640.4	501.9	417.2	441.8	469.6	548.1	648.1	585.0	495.7	471.1	448.0
75°	466.5	395.7	374.1	398.7	420.3	494.2	586.6	535.8	455.7	429.5	408.0
77.5°	349.5	304.8	311.0	338.7	357.2	426.5	521.9	485.0	412.6	377.2	368.0
80°	257.1	232.5	257.1	283.3	297.1	375.6	475.7	420.3	347.9	307.9	300.2
82.5°	183.2	169.3	198.6	215.5	221.7	311.0	428.0	335.6	263.3	210.9	194.0
85°	104.7	103.1	133.9	132.4	137.0	181.7	281.7	223.2	169.3	129.3	126.2
87.5°	46.2	50.8	67.7	53.9	57.0	86.2	120.1	83.1	69.3	38.5	29.3
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)