

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: P480769

Luminaire Tested: **IFLD-S-SA3A-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480769
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-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

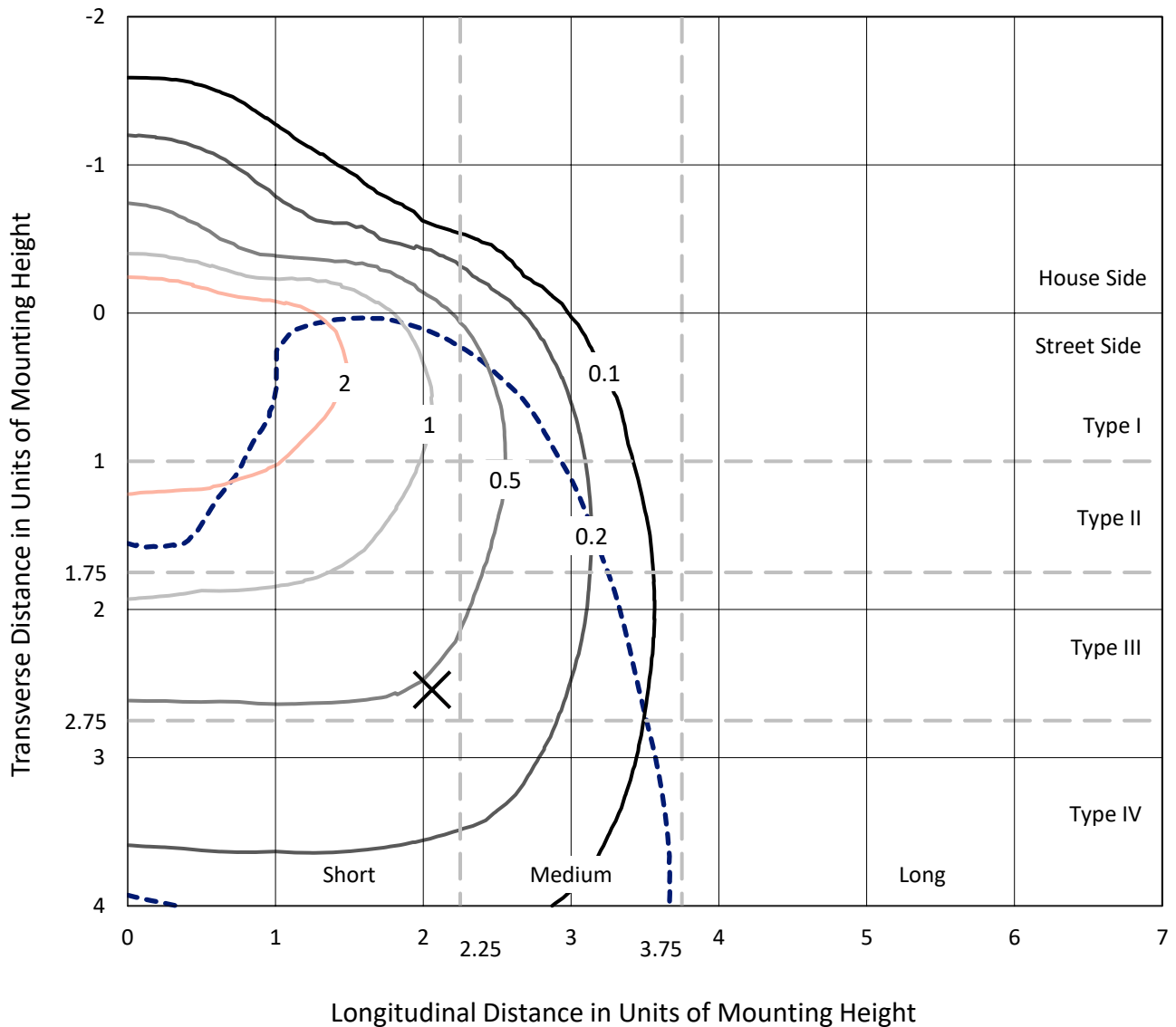
Lumens per Lamp: N/A
Luminaire Lumens: 11129.8 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

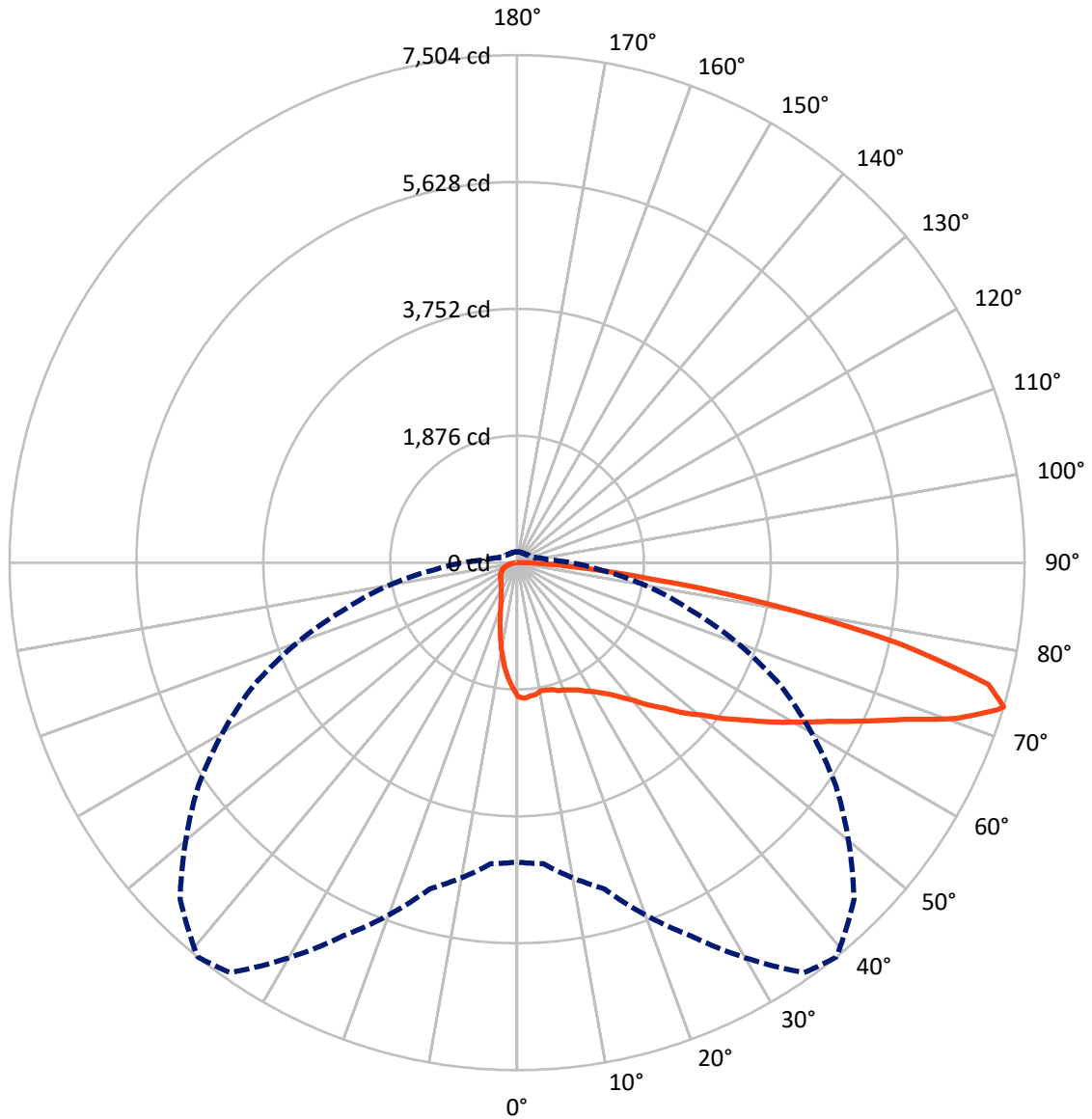
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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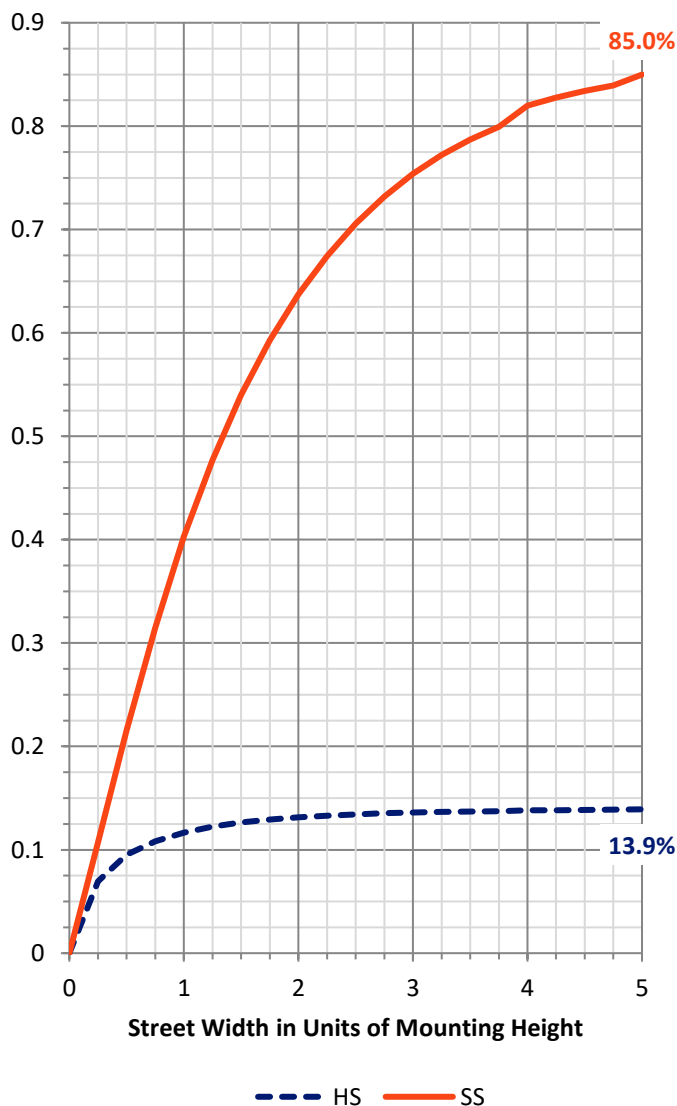
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.5	0.0	1564.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9565.2	0.0	9565.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	11129.8	0.0	11129.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	1.5
10°-20°	437.2	3.9
20°-30°	668.1	6.0
30°-40°	974.1	8.8
40°-50°	1472.0	13.2
50°-60°	2131.5	19.2
60°-70°	2708.1	24.3
70°-80°	2195.4	19.7
80°-90°	371.4	3.3
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°	11129.8	100.0
0°-180°	11129.8	100.0

Coefficient of Utilization



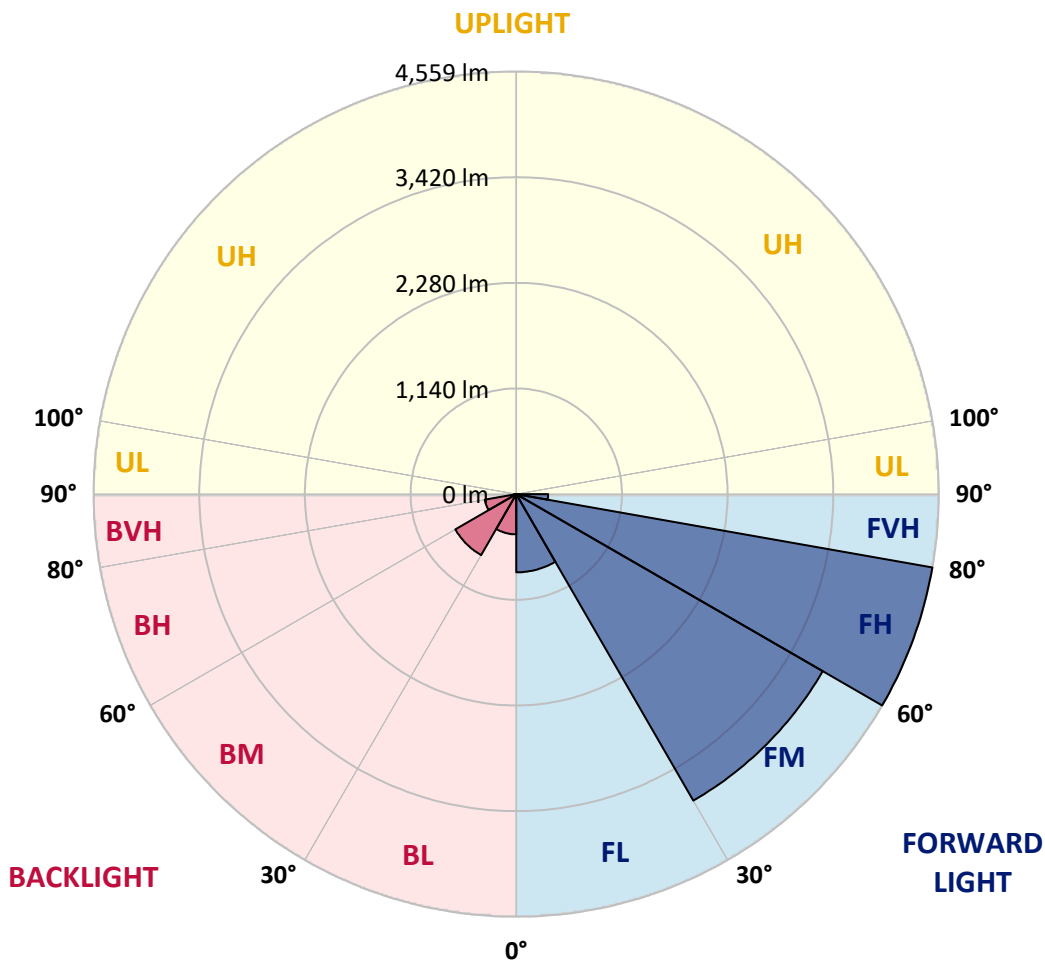
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.4	7.6			
FM (30°-60°)	3818.2	34.3			
FH (60°-80°)	4559.4	41.0			G2/5000
FVH (80°-90°)	344.2	3.1			G3/500
BL (0°-30°)	433.9	3.9	B1/500		
BM (30°-60°)	759.3	6.8	B1/1000		
BH (60°-80°)	344.1	3.1	B1/500		G1/500
BVH (80°-90°)	27.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2
2.5°	2028.5	2007.3	2011.1	2003.6	2011.1	2008.6	2004.8	1986.1	2004.8	1986.1	1981.2
5°	2001.1	2001.1	2013.5	1994.9	1997.4	1984.9	1997.4	1983.7	1971.2	1940.1	1931.4
7.5°	1992.4	1991.1	1992.4	1966.2	1978.7	1971.2	1958.8	1943.8	1918.9	1899.0	1870.3
10°	1932.6	1945.1	1931.4	1938.8	1948.8	1926.4	1925.1	1921.4	1910.2	1884.0	1866.6
12.5°	1900.2	1921.4	1928.9	1922.6	1931.4	1933.8	1926.4	1921.4	1907.7	1890.3	1840.5
15°	1913.9	1889.0	1910.2	1951.3	1942.6	1948.8	1950.0	1945.1	1938.8	1906.5	1874.1
17.5°	1917.7	1902.7	1947.5	1956.3	1967.5	1989.9	1974.9	1973.7	1950.0	1927.6	1880.3
20°	1926.4	1920.2	1956.3	2002.3	2003.6	2007.3	2014.8	1996.1	1983.7	1945.1	1872.8
22.5°	1958.8	1979.9	2013.5	2033.5	2044.7	2047.2	2047.2	2009.8	1996.1	1965.0	1907.7
25°	2055.9	2033.5	2080.8	2104.4	2088.3	2084.5	2075.8	2042.2	2027.2	1999.8	1923.9
27.5°	2126.9	2125.6	2153.0	2185.4	2141.8	2150.5	2119.4	2109.4	2075.8	2060.9	1952.5
30°	2224.0	2251.4	2250.1	2260.1	2202.8	2212.8	2172.9	2154.3	2135.6	2144.3	2037.2
32.5°	2348.5	2338.5	2354.7	2347.3	2290.0	2298.7	2251.4	2222.7	2229.0	2255.1	2153.0
35°	2428.2	2418.2	2424.5	2424.5	2407.0	2397.1	2377.2	2339.8	2369.7	2418.2	2282.5
37.5°	2514.1	2526.6	2562.7	2555.2	2532.8	2532.8	2530.3	2504.2	2542.8	2662.3	2489.2
40°	2590.1	2623.7	2646.1	2661.1	2687.2	2687.2	2708.4	2693.4	2763.2	2954.9	2742.0
42.5°	2669.8	2671.0	2793.1	2804.3	2862.8	2887.7	2903.9	2916.3	3047.1	3261.3	3012.2
45°	2771.9	2778.1	2885.2	2971.1	3062.0	3070.7	3131.8	3172.9	3333.5	3596.2	3306.1
47.5°	2906.4	2898.9	3013.5	3150.4	3263.8	3323.5	3397.0	3441.8	3639.8	3959.8	3627.4
50°	3083.2	3060.8	3126.8	3342.2	3475.4	3541.4	3672.2	3746.9	3978.5	4307.3	3847.8
52.5°	3298.6	3261.3	3313.6	3548.9	3698.3	3831.6	3956.1	4039.5	4281.1	4576.2	4010.9
55°	3526.5	3449.3	3464.2	3768.1	3983.5	4109.3	4279.9	4367.0	4613.6	4817.8	4174.0
57.5°	3751.9	3703.3	3673.4	3978.5	4323.5	4444.2	4601.1	4714.5	4923.7	5032.0	4312.2
60°	3941.2	3928.7	3880.1	4304.8	4683.3	4786.7	4951.0	5020.8	5178.9	5230.0	4314.7
62.5°	4096.8	4054.5	4131.7	4567.5	5049.4	5166.5	5347.0	5353.3	5465.3	5353.3	4187.7
65°	4218.9	4221.3	4344.6	4885.1	5472.8	5645.9	5791.6	5775.4	5703.2	5279.8	3887.6
67.5°	4329.7	4377.0	4557.6	5233.7	6017.0	6180.1	6342.0	6127.8	5767.9	4936.1	3301.1
70°	4416.8	4464.2	4845.2	5658.3	6658.3	6897.3	6933.5	6267.3	5470.3	4181.5	2490.5
72.5°	4406.9	4492.8	5008.3	5997.0	7227.3	7434.0	7142.7	5875.0	4557.6	2915.1	1453.2
73°	4428.1	4470.4	4994.6	6091.7	7400.4	7503.8	7045.5	5751.7	4298.5	2615.0	1229.0
75°	4019.6	4162.8	4746.8	5937.3	7214.9	7196.2	6487.7	4792.9	3055.8	1373.5	595.2
77.5°	2973.6	3064.5	3740.7	4882.6	5922.3	5802.8	4893.8	3063.3	1450.7	509.3	321.3
80°	1453.2	1524.2	1982.4	2819.2	3872.7	3882.6	3037.1	1593.9	621.4	287.6	219.2
82.5°	726.0	768.3	952.6	1239.0	1905.2	1996.1	1540.4	906.5	384.8	163.1	124.5
85°	474.4	504.3	586.5	606.4	808.2	853.0	717.3	707.3	250.3	88.4	100.9
87.5°	315.0	320.0	359.9	306.3	323.8	311.3	346.2	445.8	73.5	37.4	27.4
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°	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2	1981.2
2.5°	1974.9	1957.5	1938.8	1912.7	1894.0	1865.4	1839.2	1828.0	1825.5	1826.8	1814.3
5°	1923.9	1899.0	1861.6	1808.1	1776.9	1729.6	1689.8	1668.6	1646.2	1649.9	1640.0
7.5°	1852.9	1825.5	1768.2	1706.0	1628.8	1561.5	1524.2	1471.9	1442.0	1419.6	1432.0
10°	1830.5	1783.2	1697.3	1611.3	1491.8	1403.4	1317.5	1257.7	1216.6	1176.7	1194.2
12.5°	1819.3	1772.0	1652.4	1525.4	1371.0	1236.5	1115.7	1042.3	983.7	948.9	962.6
15°	1809.3	1750.8	1610.1	1430.8	1257.7	1080.9	945.1	848.0	792.0	758.3	762.1
17.5°	1823.0	1739.6	1547.8	1338.6	1133.2	943.9	793.2	692.3	635.1	613.9	608.9
20°	1809.3	1727.1	1486.8	1246.5	1008.6	813.1	668.7	585.3	545.4	528.0	524.2
22.5°	1814.3	1697.3	1423.3	1144.4	892.8	703.6	585.3	521.8	490.6	481.9	484.4
25°	1838.0	1679.8	1359.8	1032.3	778.3	622.6	531.7	483.2	460.7	452.0	454.5
27.5°	1855.4	1694.8	1302.5	926.5	681.1	550.4	486.9	454.5	439.6	433.3	432.1
30°	1899.0	1703.5	1246.5	831.8	601.4	503.1	455.8	429.6	419.6	415.9	414.7
32.5°	1963.7	1719.7	1181.7	744.6	542.9	458.2	430.9	408.4	405.9	402.2	403.5
35°	2069.6	1775.7	1109.5	669.9	486.9	428.4	404.7	389.8	389.8	389.8	393.5
37.5°	2221.5	1854.2	1044.8	599.0	450.8	402.2	382.3	377.3	374.8	378.6	381.0
40°	2417.0	1948.8	992.5	542.9	419.6	384.8	367.3	364.9	363.6	362.4	364.9
42.5°	2631.2	2069.6	947.6	499.3	397.2	366.1	353.6	351.2	346.2	348.7	352.4
45°	2844.1	2219.0	907.8	464.5	382.3	356.1	338.7	337.5	335.0	333.7	339.9
47.5°	3080.7	2365.9	895.3	443.3	371.1	341.2	328.7	327.5	320.0	318.8	323.8
50°	3265.0	2474.3	909.0	433.3	354.9	330.0	321.3	315.0	308.8	302.6	302.6
52.5°	3392.0	2549.0	919.0	425.9	346.2	315.0	303.8	301.3	295.1	288.9	286.4
55°	3506.6	2593.8	921.5	427.1	337.5	297.6	290.1	288.9	285.2	275.2	272.7
57.5°	3545.2	2575.1	871.7	415.9	332.5	286.4	276.4	278.9	274.0	265.2	264.0
60°	3541.4	2445.6	758.3	401.0	321.3	274.0	261.5	269.0	269.0	259.0	257.8
62.5°	3326.0	2146.8	620.1	372.3	308.8	261.5	247.8	259.0	262.7	256.5	255.3
65°	2879.0	1748.3	518.0	343.7	290.1	247.8	234.1	246.6	252.8	250.3	249.0
67.5°	2382.1	1337.4	430.9	306.3	266.5	229.1	217.9	226.6	230.4	231.6	232.9
70°	1683.6	890.3	359.9	265.2	234.1	209.2	196.7	198.0	196.7	200.5	200.5
72.5°	915.2	513.0	292.6	225.4	201.7	181.8	173.1	166.9	166.9	165.6	165.6
73°	783.3	460.7	278.9	219.2	193.0	176.8	166.9	161.9	161.9	160.6	159.4
75°	439.6	337.5	239.1	188.0	166.9	154.4	146.9	139.5	138.2	138.2	138.2
77.5°	288.9	262.7	190.5	150.7	134.5	123.3	120.8	113.3	113.3	113.3	112.1
80°	216.7	206.7	146.9	114.6	103.4	94.6	92.1	87.2	85.9	80.9	82.2
82.5°	144.4	163.1	107.1	80.9	69.7	64.8	64.8	63.5	59.8	53.5	53.5
85°	114.6	133.2	77.2	49.8	41.1	34.9	36.1	34.9	33.6	27.4	26.1
87.5°	21.2	53.5	22.4	13.7	10.0	6.2	6.2	3.7	2.5	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)