

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: P479324

Luminaire Tested: **IFLD-S-SA2D-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479324
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

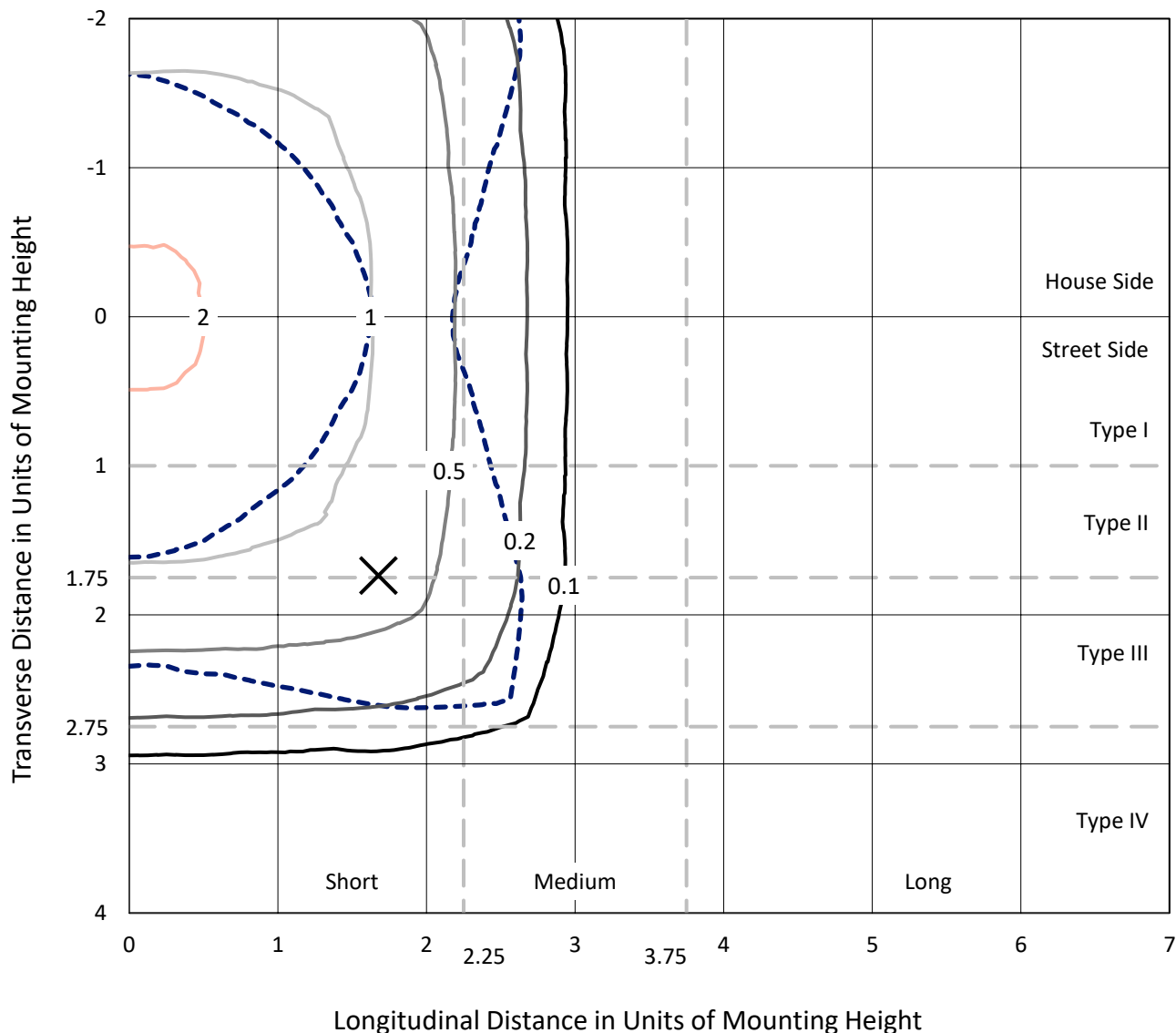
Lumens per Lamp: N/A
Luminaire Lumens: 15786.7 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 123.9
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

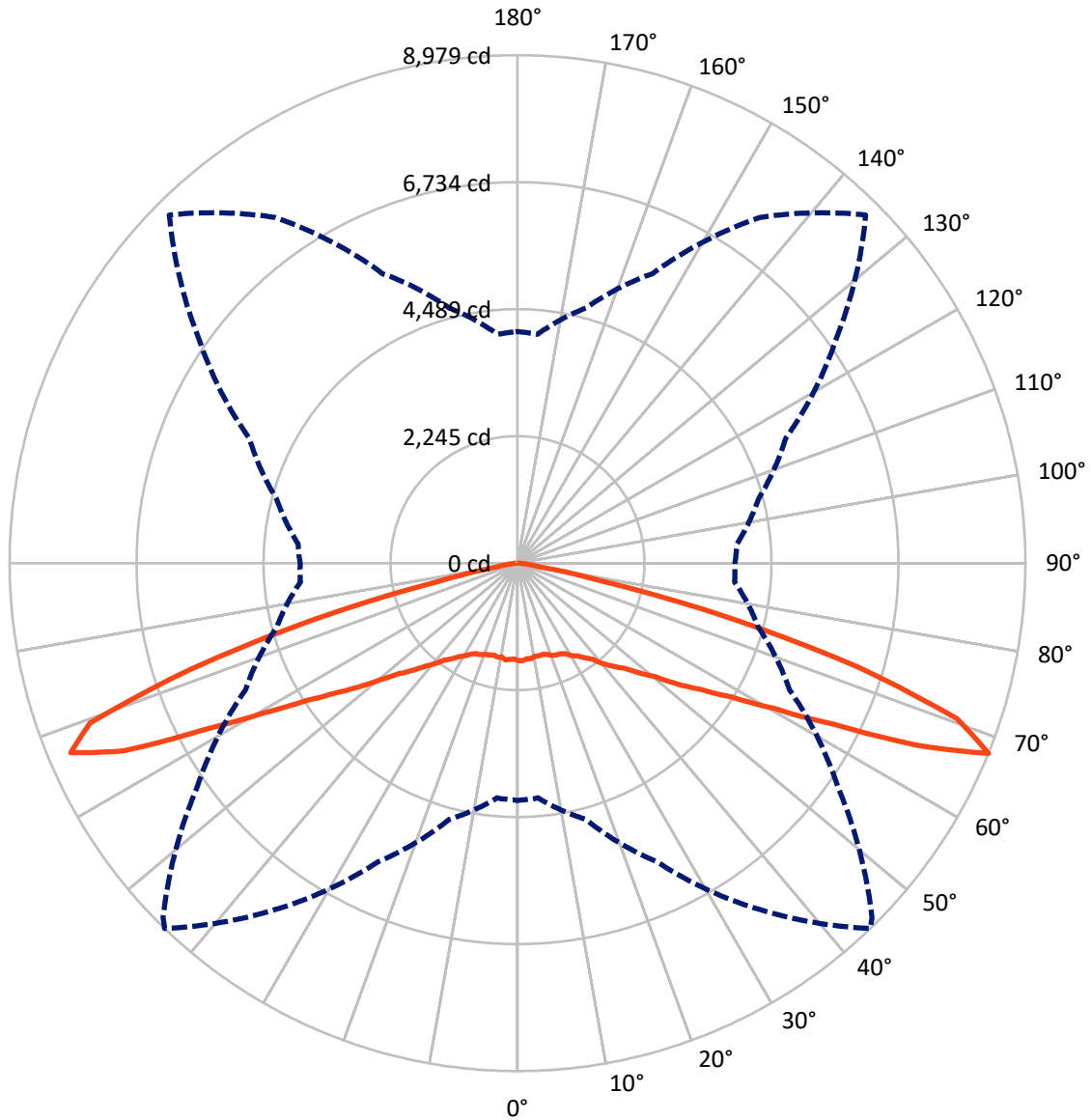
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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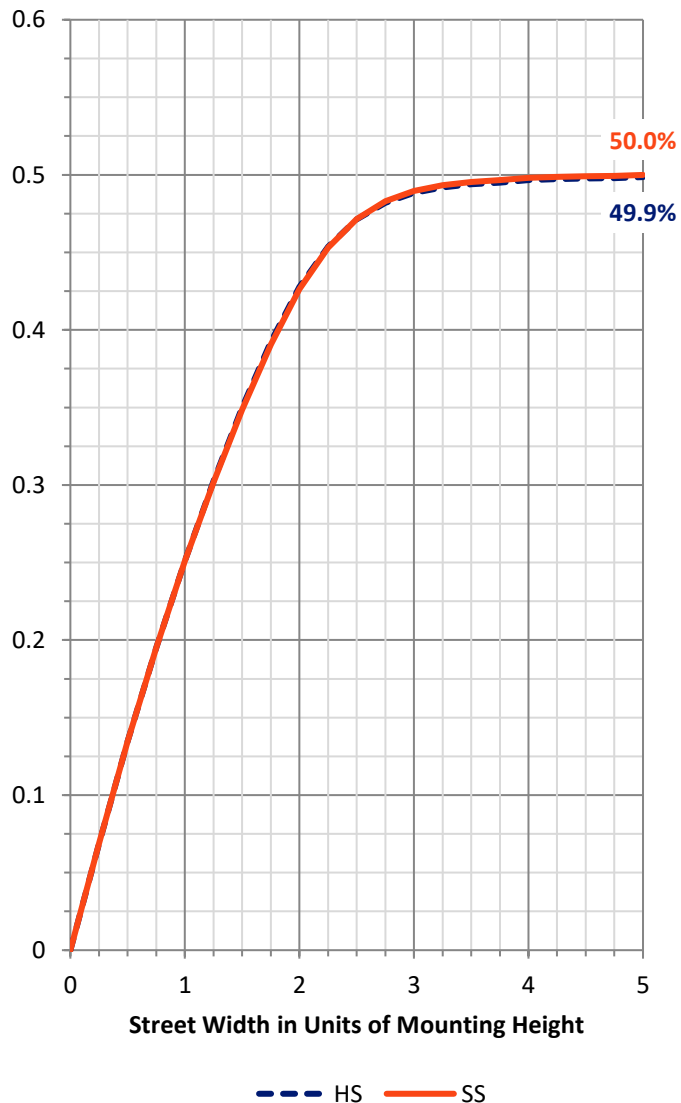
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7873.1	0.0	7873.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	7913.6	0.0	7913.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	15786.7	0.0	15786.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	1.0
10°-20°	476.7	3.0
20°-30°	810.7	5.1
30°-40°	1285.4	8.1
40°-50°	2096.0	13.3
50°-60°	3579.6	22.7
60°-70°	5444.6	34.5
70°-80°	1835.2	11.6
80°-90°	95.3	0.6
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°	15786.7	100.0
0°-180°	15786.7	100.0

Coefficient of Utilization



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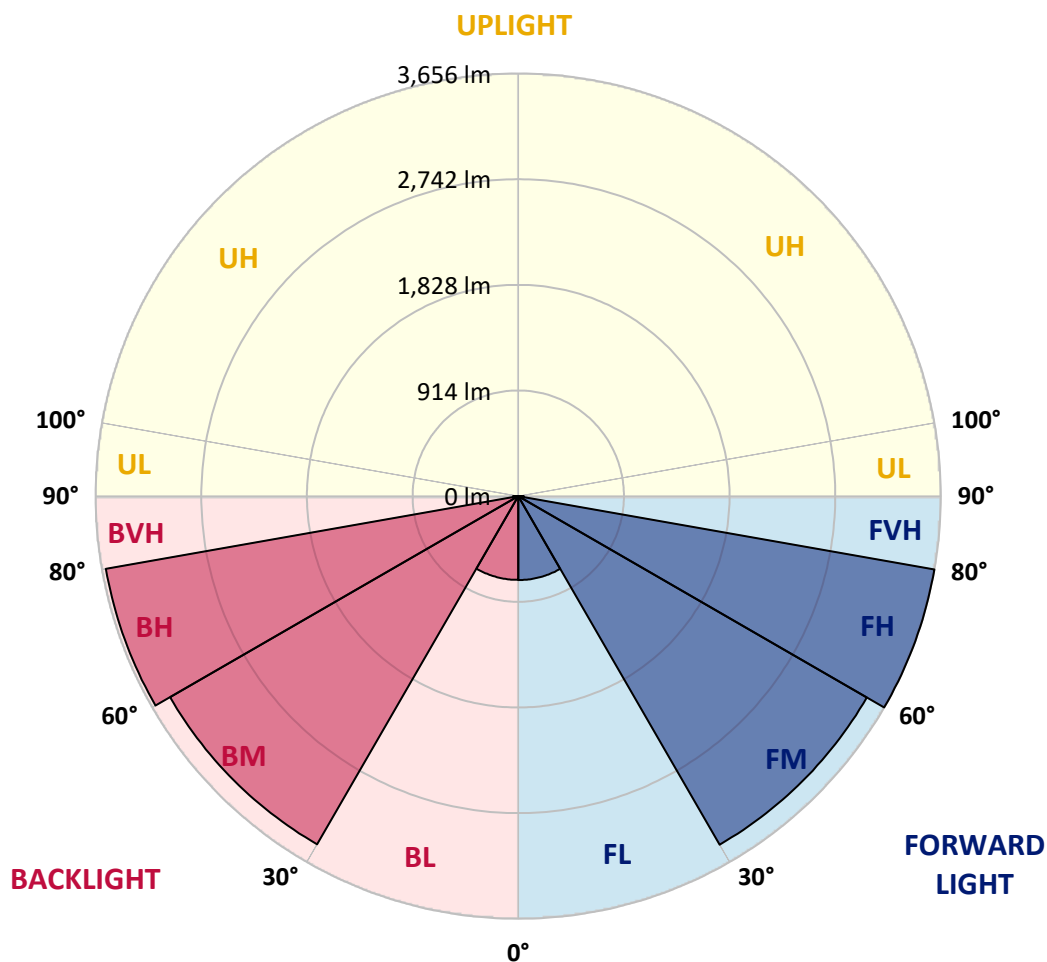
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.1	4.6			
FM (30°-60°)	3482.4	22.1			
FH (60°-80°)	3656.4	23.2			G2/5000
FVH (80°-90°)	48.7	0.3			G1/100
BL (0°-30°)	724.6	4.6	B2/1000		
BM (30°-60°)	3478.6	22.0	B3/5000		
BH (60°-80°)	3623.4	23.0	B4/5000		G2/5000
BVH (80°-90°)	46.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4
2.5°	1684.8	1704.6	1719.0	1717.2	1722.6	1728.0	1720.8	1731.6	1724.4	1737.0	1744.2
5°	1717.2	1711.8	1713.6	1702.8	1728.0	1699.2	1699.2	1713.6	1731.6	1710.0	1722.6
7.5°	1697.4	1693.8	1684.8	1701.0	1706.4	1706.4	1720.8	1693.8	1724.4	1731.6	1733.4
10°	1675.8	1655.9	1683.0	1699.2	1702.8	1674.0	1686.6	1693.8	1684.8	1693.8	1699.2
12.5°	1657.8	1668.6	1668.6	1668.6	1663.2	1683.0	1695.6	1693.8	1675.8	1692.0	1663.2
15°	1655.9	1650.5	1666.8	1681.2	1672.2	1675.8	1681.2	1697.4	1663.2	1670.4	1670.4
17.5°	1654.1	1661.4	1666.8	1665.0	1695.6	1695.6	1690.2	1679.4	1706.4	1692.0	1672.2
20°	1661.4	1655.9	1670.4	1675.8	1697.4	1740.6	1724.4	1715.4	1701.0	1683.0	1683.0
22.5°	1670.4	1666.8	1686.6	1710.0	1751.5	1762.3	1760.5	1749.6	1724.4	1702.8	1699.2
25°	1702.8	1670.4	1692.0	1737.0	1751.5	1773.1	1787.5	1773.1	1738.8	1744.2	1711.8
27.5°	1751.5	1746.0	1774.9	1805.5	1792.9	1812.7	1800.1	1810.9	1812.7	1785.7	1753.3
30°	1809.1	1792.9	1810.9	1870.4	1875.8	1897.4	1875.8	1847.0	1856.0	1832.5	1816.3
32.5°	1892.0	1886.6	1920.8	1960.5	1967.7	1956.9	1946.1	1962.3	1924.4	1906.4	1877.6
35°	1946.1	1969.5	2010.9	2041.6	2065.0	2054.2	2059.6	2043.4	2052.4	2014.5	2001.9
37.5°	2106.4	2097.4	2106.4	2158.7	2164.1	2158.7	2164.1	2182.1	2169.5	2137.1	2104.6
40°	2257.8	2243.4	2265.0	2324.5	2320.9	2338.9	2302.8	2322.7	2322.7	2261.4	2248.8
42.5°	2371.3	2420.0	2445.2	2493.8	2511.9	2495.6	2488.4	2492.0	2531.7	2459.6	2432.6
45°	2605.6	2603.8	2679.4	2706.5	2656.0	2652.4	2638.0	2681.2	2708.3	2666.8	2656.0
47.5°	2859.6	2872.2	2915.5	2926.3	2956.9	2901.1	2901.1	2906.5	3002.0	2904.7	2854.2
50°	3088.5	3104.7	3191.2	3275.9	3218.2	3158.7	3182.2	3211.0	3263.2	3171.4	3128.1
52.5°	3366.0	3454.2	3511.9	3557.0	3598.4	3557.0	3502.9	3535.3	3638.0	3515.5	3461.5
55°	3766.0	3836.3	3890.3	3973.2	4007.4	3951.6	3946.2	3942.6	4000.2	3870.5	3796.6
57.5°	4212.9	4184.0	4270.5	4398.4	4522.8	4468.7	4452.5	4456.1	4470.5	4286.7	4230.9
60°	4767.8	4800.3	4903.0	5014.7	5146.2	5221.9	5115.6	5054.3	5067.0	4816.5	4730.0
62.5°	5085.0	5157.0	5389.5	5773.3	6038.2	6274.2	6290.4	5892.2	5625.5	5139.0	4771.4
65°	4931.8	4921.0	5358.9	6068.8	7072.5	7759.0	7656.3	6690.5	5758.9	4985.9	4492.1
67.5°	4194.8	4166.0	4695.8	5822.0	7479.7	8978.9	8861.8	6915.7	5308.4	4411.1	3852.5
70°	2702.9	2695.6	3270.5	4438.1	6677.9	8243.7	8287.0	6281.4	4321.0	3230.8	2677.6
72.5°	982.0	1041.5	1374.9	2385.7	4535.4	6306.7	6333.7	4650.7	2484.8	1493.8	1101.0
75°	362.2	373.0	434.3	774.8	2066.8	3872.3	3973.2	2256.0	882.9	486.5	396.4
77.5°	209.0	210.8	232.4	288.3	612.6	1511.8	1573.1	684.7	342.4	259.5	239.7
80°	142.4	140.5	164.0	187.4	245.1	428.9	455.9	286.5	216.2	180.2	151.4
82.5°	82.9	88.3	120.7	133.3	149.6	189.2	192.8	178.4	162.2	133.3	99.1
85°	50.5	41.4	66.7	73.9	86.5	84.7	84.7	97.3	104.5	93.7	55.9
87.5°	12.6	12.6	16.2	18.0	23.4	18.0	19.8	37.8	50.5	46.8	28.8
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°	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4	1724.4
2.5°	1728.0	1722.6	1726.2	1746.0	1733.4	1695.6	1704.6	1724.4	1708.2	1699.2	1697.4
5°	1720.8	1731.6	1719.0	1722.6	1735.2	1704.6	1710.0	1735.2	1724.4	1728.0	1708.2
7.5°	1722.6	1728.0	1717.2	1701.0	1701.0	1726.2	1711.8	1715.4	1699.2	1726.2	1690.2
10°	1711.8	1697.4	1684.8	1693.8	1690.2	1683.0	1677.6	1688.4	1672.2	1695.6	1670.4
12.5°	1679.4	1683.0	1679.4	1675.8	1683.0	1701.0	1672.2	1675.8	1650.5	1654.1	1666.8
15°	1666.8	1677.6	1674.0	1693.8	1702.8	1675.8	1697.4	1675.8	1655.9	1645.1	1665.0
17.5°	1672.2	1688.4	1683.0	1697.4	1681.2	1701.0	1704.6	1695.6	1672.2	1663.2	1672.2
20°	1677.6	1672.2	1679.4	1704.6	1728.0	1708.2	1708.2	1702.8	1681.2	1668.6	1668.6
22.5°	1690.2	1681.2	1692.0	1711.8	1719.0	1749.6	1722.6	1710.0	1674.0	1641.5	1672.2
25°	1715.4	1720.8	1728.0	1720.8	1760.5	1756.9	1753.3	1744.2	1688.4	1690.2	1684.8
27.5°	1764.1	1733.4	1742.4	1785.7	1791.1	1805.5	1787.5	1803.7	1744.2	1746.0	1710.0
30°	1823.5	1791.1	1819.9	1857.8	1856.0	1883.0	1874.0	1877.6	1836.1	1812.7	1764.1
32.5°	1888.4	1884.8	1902.8	1926.2	1935.2	1949.7	1947.9	1947.9	1922.6	1861.4	1870.4
35°	1960.5	1985.7	2007.3	2032.5	2036.2	2054.2	2028.9	2032.5	2007.3	1962.3	1976.7
37.5°	2102.8	2101.0	2124.4	2155.1	2158.7	2144.3	2164.1	2155.1	2120.8	2090.2	2066.8
40°	2268.6	2232.6	2254.2	2326.3	2331.7	2306.4	2304.6	2302.8	2277.6	2210.9	2196.5
42.5°	2412.7	2459.6	2456.0	2479.4	2463.2	2450.6	2495.6	2470.4	2450.6	2380.3	2367.7
45°	2598.3	2612.8	2659.6	2735.3	2657.8	2657.8	2688.4	2668.6	2657.8	2605.6	2556.9
47.5°	2829.0	2841.6	2935.3	2940.7	2890.3	2856.0	2951.5	2955.1	2910.1	2870.4	2811.0
50°	3099.3	3104.7	3189.4	3275.9	3220.0	3155.1	3252.4	3290.3	3189.4	3135.3	3061.4
52.5°	3396.6	3380.4	3450.6	3612.8	3558.8	3538.9	3643.4	3652.5	3515.5	3430.8	3450.6
55°	3738.9	3717.3	3908.3	4018.2	3984.0	3948.0	3994.8	4016.4	3906.5	3767.8	3816.4
57.5°	4182.2	4193.0	4288.5	4396.6	4452.5	4461.5	4483.1	4461.5	4349.8	4209.2	4164.2
60°	4625.5	4657.9	4843.5	5047.1	5065.2	5223.7	5194.9	5086.8	4928.2	4728.2	4737.2
62.5°	4789.5	4762.4	5061.5	5558.9	5982.3	6272.4	6144.5	5760.7	5393.1	5029.1	5056.1
65°	4459.7	4526.4	4933.6	5712.0	6631.0	7778.8	7097.7	6036.4	5294.0	4823.7	4771.4
67.5°	3843.5	3893.9	4411.1	5232.7	6863.5	8705.0	7458.1	5647.2	4668.7	4059.7	4092.1
70°	2677.6	2702.9	3209.2	4286.7	6223.8	8214.9	6728.3	4337.2	3223.6	2569.5	2605.6
72.5°	1077.5	1138.8	1472.2	2582.1	4594.9	6241.8	4530.0	2275.8	1337.0	994.7	902.8
75°	398.2	400.0	470.3	888.3	2182.1	3922.7	2043.4	731.6	427.1	349.6	333.4
77.5°	230.6	228.8	245.1	320.7	632.5	1531.6	580.2	286.5	232.4	209.0	200.0
80°	144.2	142.4	167.6	212.6	277.5	419.8	245.1	178.4	156.8	135.1	135.1
82.5°	91.9	93.7	131.5	156.8	169.4	185.6	142.4	126.1	117.1	77.5	75.7
85°	59.5	54.1	91.9	104.5	93.7	82.9	79.3	66.7	61.3	37.8	41.4
87.5°	27.0	28.8	46.8	52.3	34.2	19.8	19.8	14.4	14.4	9.0	9.0
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)