

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: P481197

Luminaire Tested: **IFLD-S-SA2E-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481197
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

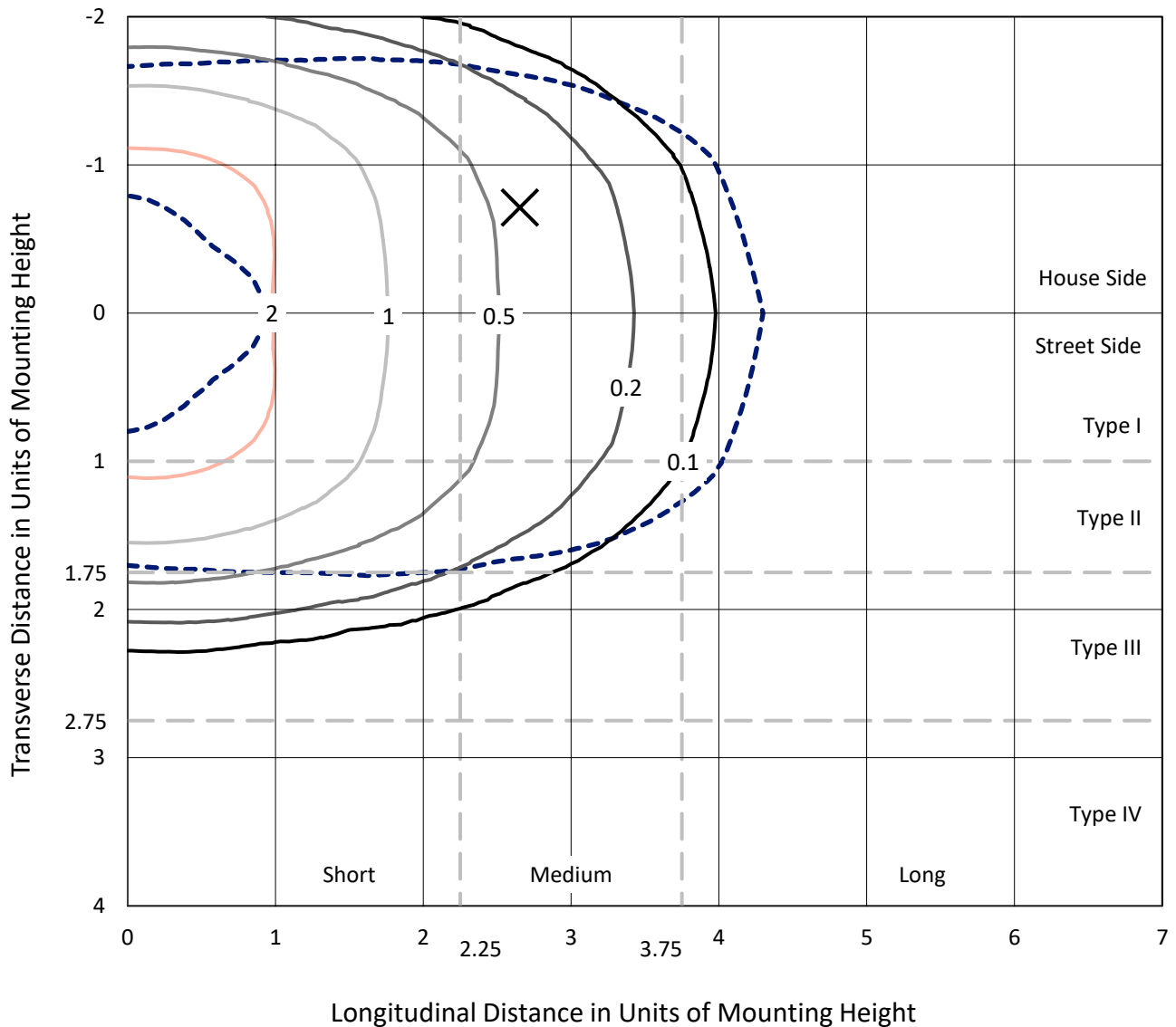
Lumens per Lamp: N/A
Luminaire Lumens: 16976.2 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 156.2
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

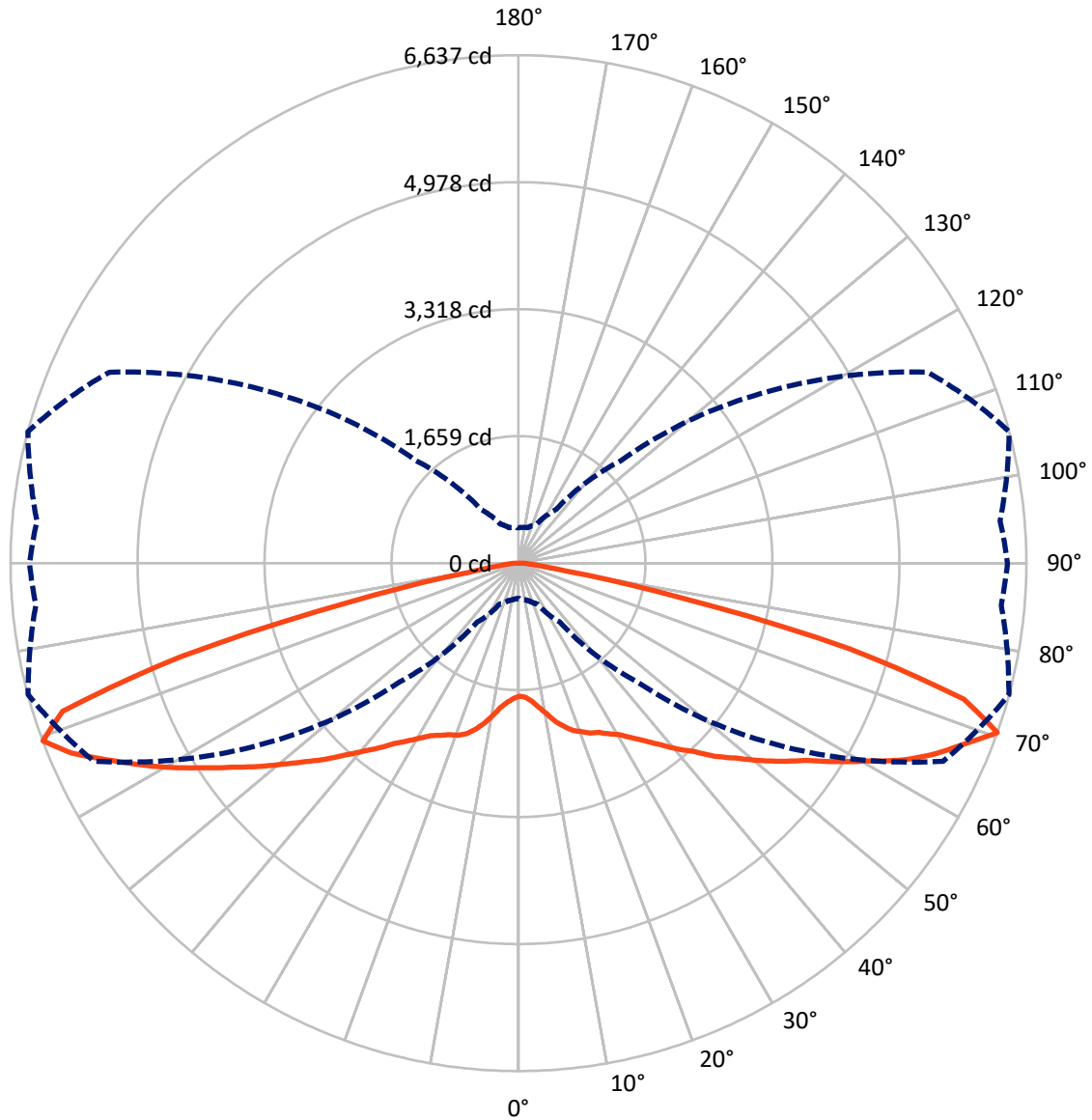
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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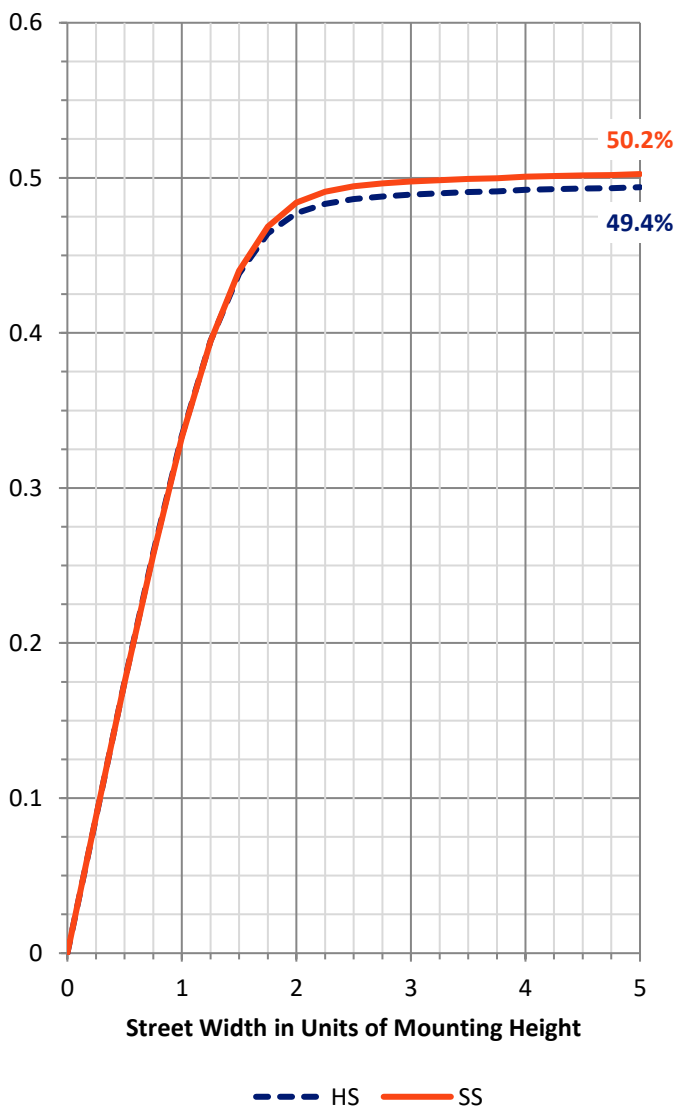
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8427.7	0.0	8427.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8548.5	0.0	8548.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	16976.2	0.0	16976.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	1.0
10°-20°	589.1	3.5
20°-30°	1140.8	6.7
30°-40°	1929.5	11.4
40°-50°	3078.1	18.1
50°-60°	4213.3	24.8
60°-70°	3971.3	23.4
70°-80°	1749.5	10.3
80°-90°	131.6	0.8
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°	16976.2	100.0
0°-180°	16976.2	100.0

Coefficient of Utilization



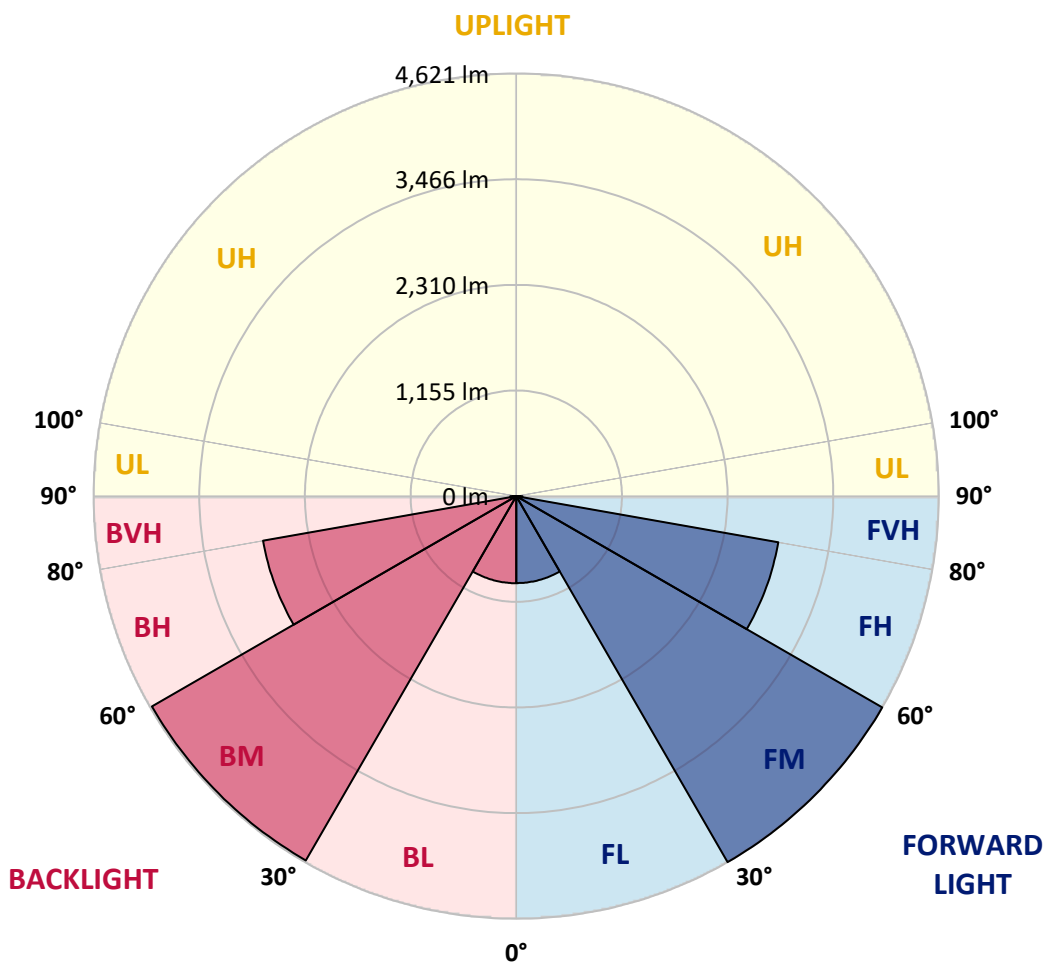
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.9	5.6			
FM (30°-60°)	4620.8	27.2			
FH (60°-80°)	2909.5	17.1			G2/5000
FVH (80°-90°)	67.2	0.4			G1/100
BL (0°-30°)	952.0	5.6	B2/1000		
BM (30°-60°)	4600.1	27.1	B3/5000		
BH (60°-80°)	2811.2	16.6	B4/5000		G4/5000
BVH (80°-90°)	64.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3
2.5°	1727.4	1727.4	1725.5	1734.7	1743.8	1747.5	1754.8	1756.6	1767.6	1758.5	1776.8
5°	1721.9	1720.0	1734.7	1756.6	1756.6	1780.4	1795.1	1815.2	1820.7	1831.7	1835.3
7.5°	1760.3	1756.6	1749.3	1773.1	1793.2	1829.8	1850.0	1884.7	1897.5	1912.2	1928.6
10°	1784.1	1784.1	1776.8	1818.9	1837.2	1886.6	1930.5	1965.2	2014.6	2031.1	2032.9
12.5°	1787.7	1793.2	1815.2	1870.1	1921.3	1985.4	2018.3	2084.2	2133.6	2164.7	2175.7
15°	1842.6	1831.7	1855.5	1930.5	2005.5	2062.2	2120.8	2168.4	2239.7	2280.0	2305.6
17.5°	1892.0	1881.1	1925.0	2014.6	2091.5	2179.3	2230.6	2281.8	2333.0	2369.6	2371.5
20°	1970.7	1979.9	2018.3	2115.3	2215.9	2292.8	2351.3	2360.5	2386.1	2439.2	2430.0
22.5°	2067.7	2060.4	2140.9	2247.0	2356.8	2420.9	2453.8	2430.0	2417.2	2473.9	2486.7
25°	2164.7	2186.7	2259.8	2358.7	2490.4	2576.4	2585.6	2519.7	2472.1	2492.2	2486.7
27.5°	2312.9	2316.6	2393.4	2510.5	2644.1	2719.1	2713.6	2620.3	2528.8	2530.7	2534.3
30°	2503.2	2484.9	2569.1	2675.2	2807.0	2874.7	2883.8	2750.2	2627.6	2591.0	2600.2
32.5°	2686.2	2708.2	2781.3	2902.1	2999.1	3037.5	3017.4	2898.5	2739.3	2689.9	2695.3
35°	2920.4	2916.8	3017.4	3119.9	3193.1	3200.4	3183.9	3010.1	2860.0	2796.0	2770.4
37.5°	3171.1	3204.0	3269.9	3354.1	3430.9	3434.6	3344.9	3205.9	3021.1	2914.9	2946.0
40°	3451.1	3487.7	3535.2	3657.8	3714.6	3656.0	3564.5	3376.0	3183.9	3090.6	3105.2
42.5°	3698.1	3714.6	3811.5	3956.1	3983.6	3957.9	3822.5	3593.8	3370.6	3268.1	3275.4
45°	3925.0	3947.0	4073.2	4203.1	4267.2	4223.3	4065.9	3848.1	3588.3	3500.5	3465.7
47.5°	4133.6	4177.5	4300.1	4433.7	4532.5	4536.2	4342.2	4078.7	3804.2	3688.9	3687.1
50°	4274.5	4338.5	4459.3	4611.2	4755.7	4812.5	4618.5	4334.9	4040.3	3917.7	3904.9
52.5°	4351.3	4417.2	4538.0	4774.0	4935.1	5022.9	4931.4	4574.6	4316.6	4188.5	4168.4
55°	4258.0	4301.9	4499.6	4830.8	5079.6	5224.2	5163.8	4905.8	4591.1	4486.8	4505.1
57.5°	3861.0	3952.4	4195.8	4609.4	5076.0	5431.0	5425.5	5218.7	4907.6	4808.8	4812.5
60°	3178.4	3255.3	3555.4	4133.6	4871.0	5515.1	5709.1	5522.4	5262.6	5147.3	5143.7
62.5°	2243.4	2340.4	2688.0	3319.3	4267.2	5398.0	6034.8	5904.9	5610.3	5526.1	5557.2
65°	1255.3	1313.8	1635.9	2206.8	3251.6	4753.9	6093.4	6302.0	5963.4	5835.3	5840.8
67.5°	671.5	693.5	843.6	1158.3	1989.0	3665.2	5502.3	6530.7	6345.9	6124.5	6089.7
70°	461.1	468.4	506.9	592.9	940.5	2192.1	4150.1	6122.6	6633.2	6331.2	6389.8
72.5°	389.8	386.1	395.2	404.4	492.2	980.8	2435.5	4711.8	6261.7	6148.2	6126.3
75°	338.5	336.7	340.3	331.2	342.2	431.8	1077.8	2936.9	4583.7	5116.2	5198.6
77.5°	280.0	281.8	283.6	274.5	270.8	285.5	433.7	1290.0	2256.2	2490.4	2686.2
80°	212.3	215.9	230.6	221.4	206.8	208.6	256.2	431.8	647.8	587.4	605.7
82.5°	144.6	146.4	177.5	166.5	155.5	140.9	164.7	223.2	252.5	192.1	168.3
85°	102.5	100.6	115.3	106.1	98.8	71.4	98.8	126.3	151.9	95.2	86.0
87.5°	23.8	23.8	47.6	38.4	36.6	29.3	38.4	49.4	65.9	42.1	38.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3	1738.3
2.5°	1771.3	1754.8	1754.8	1751.2	1736.5	1732.9	1720.0	1723.7	1714.6	1705.4
5°	1833.5	1811.5	1811.5	1780.4	1751.2	1747.5	1732.9	1732.9	1718.2	1721.9
7.5°	1919.5	1899.4	1866.4	1839.0	1798.7	1782.3	1754.8	1751.2	1747.5	1740.2
10°	2022.0	1996.3	1963.4	1906.7	1873.8	1842.6	1815.2	1776.8	1767.6	1769.5
12.5°	2161.0	2120.8	2049.4	2000.0	1957.9	1917.7	1877.4	1820.7	1807.9	1813.4
15°	2259.8	2208.6	2137.2	2118.9	2062.2	2012.8	1946.9	1882.9	1860.9	1855.5
17.5°	2340.4	2298.3	2256.2	2228.7	2183.0	2122.6	2031.1	1957.9	1908.5	1903.0
20°	2406.2	2351.3	2342.2	2358.7	2301.9	2261.7	2150.1	2060.4	1994.5	1967.1
22.5°	2446.5	2411.7	2437.3	2452.0	2448.3	2380.6	2265.3	2161.0	2078.7	2053.1
25°	2490.4	2450.1	2541.6	2591.0	2603.9	2492.2	2402.6	2265.3	2184.8	2168.4
27.5°	2512.4	2527.0	2633.1	2737.4	2728.3	2642.3	2521.5	2398.9	2334.9	2305.6
30°	2576.4	2600.2	2761.2	2878.3	2880.2	2796.0	2704.5	2565.4	2494.1	2481.3
32.5°	2691.7	2721.0	2893.0	3017.4	3039.4	2975.3	2883.8	2797.8	2724.6	2695.3
35°	2779.5	2854.5	3048.5	3162.0	3220.5	3182.1	3130.8	3041.2	2964.3	2938.7
37.5°	2905.8	3010.1	3196.7	3350.4	3416.3	3412.6	3374.2	3277.2	3213.2	3191.2
40°	3086.9	3191.2	3361.4	3564.5	3687.1	3681.6	3659.7	3584.6	3489.5	3478.5
42.5°	3279.1	3365.1	3586.5	3818.9	3994.5	3976.2	3917.7	3829.8	3764.0	3749.3
45°	3465.7	3599.3	3804.2	4102.5	4234.2	4280.0	4210.5	4060.4	3985.4	3976.2
47.5°	3699.9	3806.1	4062.2	4329.4	4525.2	4532.5	4413.6	4274.5	4137.3	4166.5
50°	3908.5	4049.4	4309.3	4602.0	4836.3	4752.1	4600.2	4426.4	4327.6	4289.1
52.5°	4131.8	4303.8	4605.7	4904.0	5033.9	4949.7	4702.7	4508.7	4358.7	4342.2
55°	4457.5	4547.1	4942.4	5171.1	5213.2	5035.7	4671.6	4397.1	4203.1	4155.6
57.5°	4788.7	4893.0	5238.8	5436.4	5392.5	4988.1	4470.3	4045.8	3791.4	3723.7
60°	5123.5	5251.6	5542.6	5723.7	5496.8	4660.6	3901.2	3354.1	3057.7	2997.3
62.5°	5496.8	5663.3	5923.2	5987.2	5187.6	4012.8	3096.1	2420.9	2120.8	2020.1
65°	5828.0	5998.2	6318.4	5932.3	4530.7	2993.6	2001.8	1383.4	1161.9	1081.4
67.5°	6100.7	6292.8	6450.2	5249.8	3317.5	1753.0	1043.0	728.3	645.9	616.7
70°	6316.6	6636.8	5901.2	3859.1	1895.7	854.5	563.6	479.4	468.4	461.1
72.5°	6128.1	6086.0	4406.2	2226.9	830.7	470.3	408.1	395.2	393.4	395.2
75°	5011.9	4470.3	2635.0	968.0	417.2	340.3	338.5	333.0	342.2	342.2
77.5°	2431.9	2126.3	1101.6	415.4	274.5	267.2	276.3	276.3	276.3	276.3
80°	563.6	624.0	393.4	252.5	199.5	199.5	219.6	221.4	212.3	208.6
82.5°	192.1	256.2	215.9	159.2	131.7	148.2	166.5	170.2	140.9	142.7
85°	95.2	150.0	117.1	91.5	67.7	91.5	108.0	113.4	97.0	93.3
87.5°	43.9	65.9	43.9	31.1	23.8	32.9	31.1	25.6	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)