

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: P481235

Luminaire Tested: **IFLD-S-SA2D-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481235
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

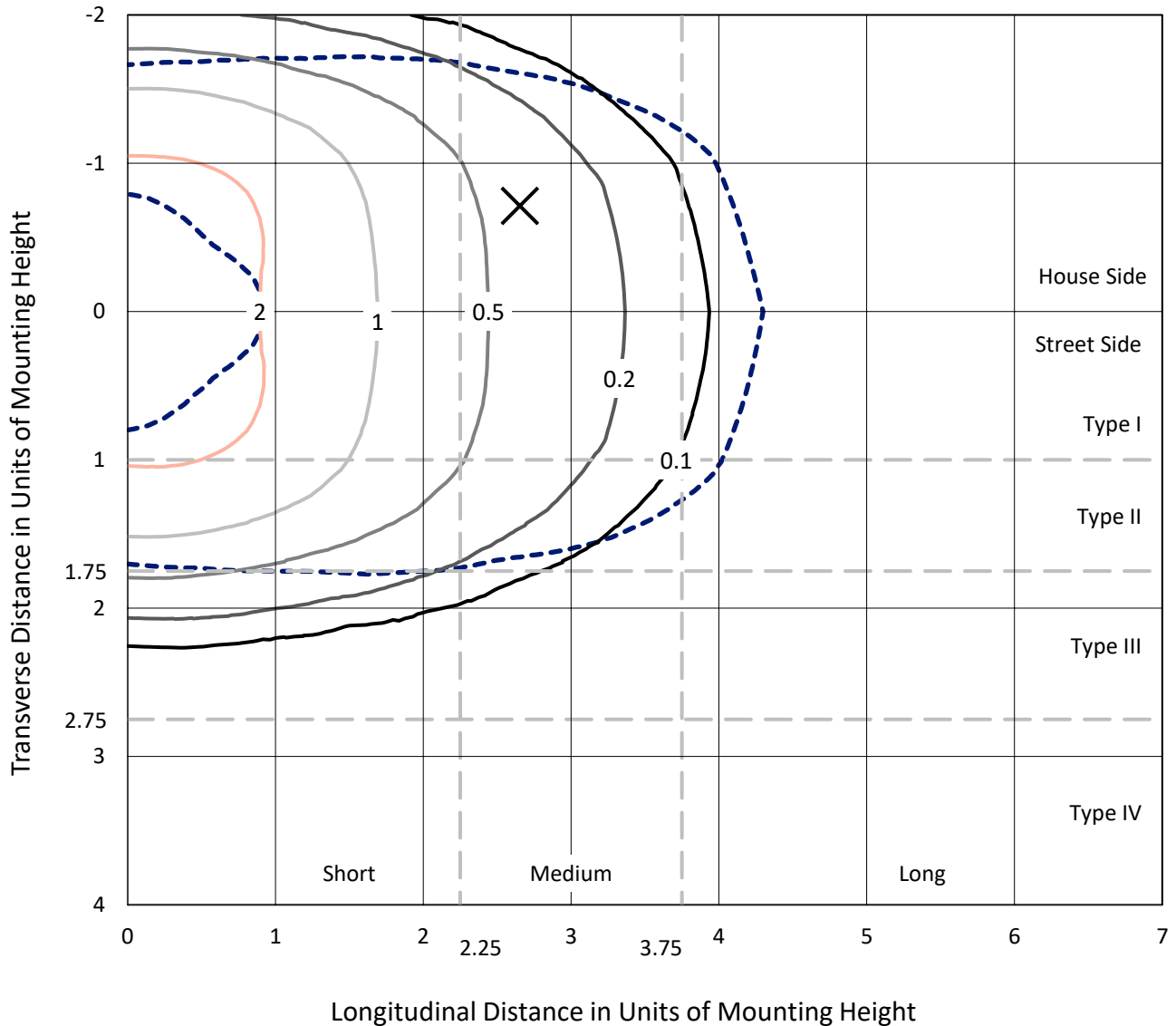
Lumens per Lamp: N/A
Luminaire Lumens: 15888.5 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 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

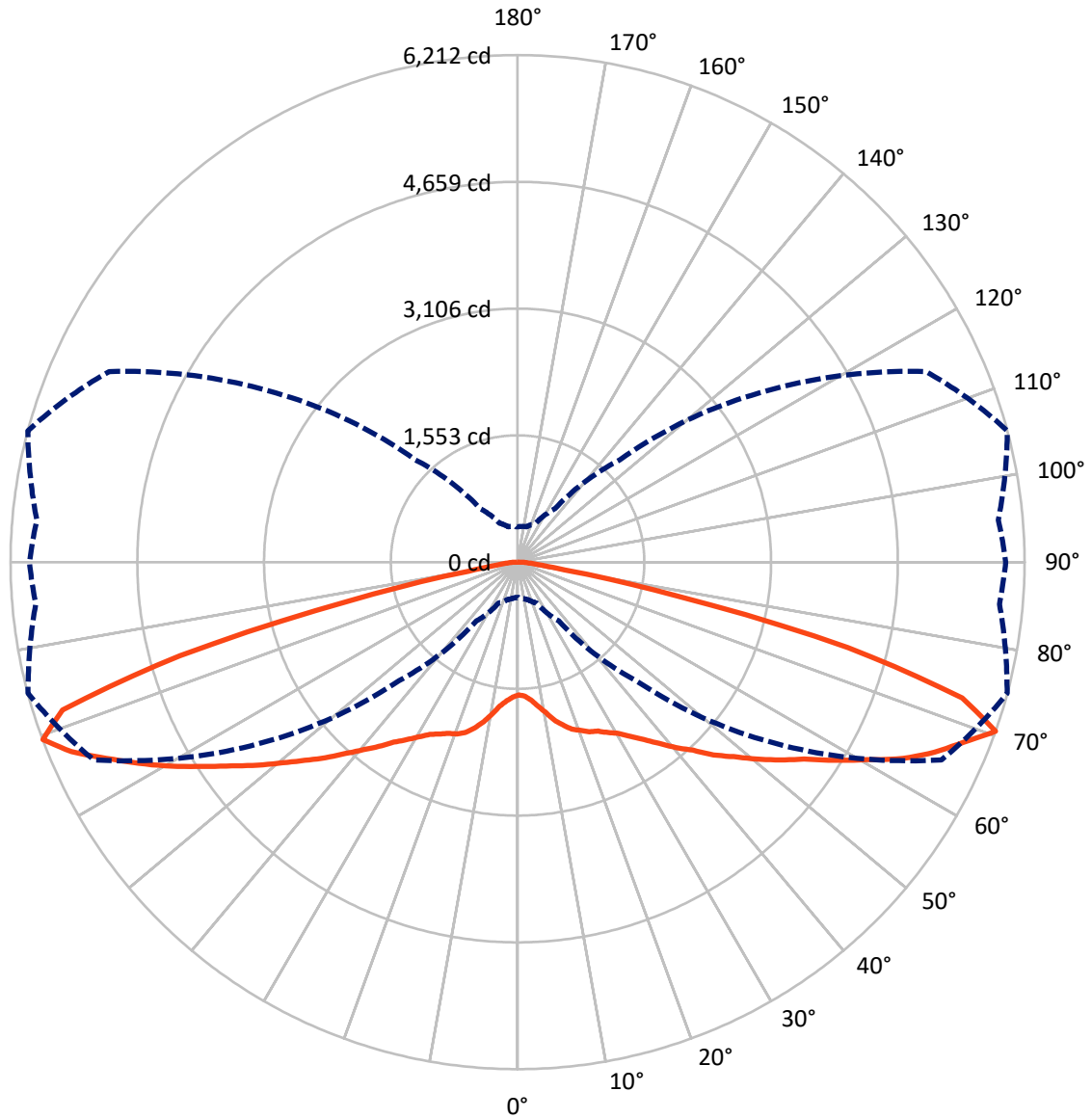
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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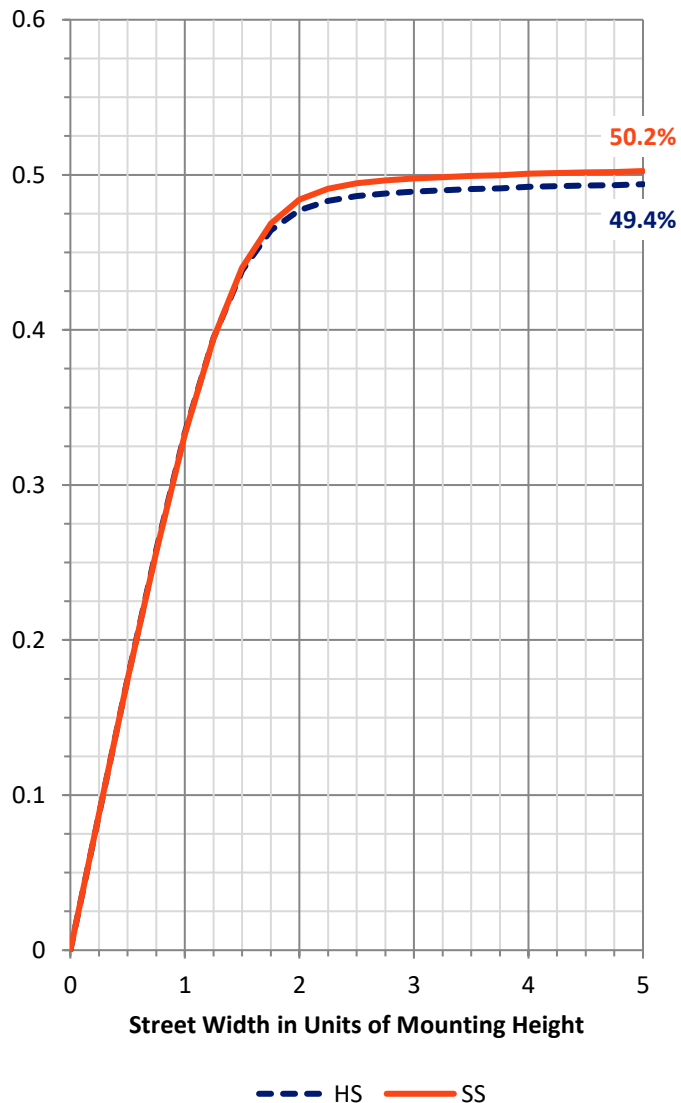
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7887.7	0.0	7887.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8000.7	0.0	8000.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	15888.5	0.0	15888.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	1.0
10°-20°	551.4	3.5
20°-30°	1067.7	6.7
30°-40°	1805.9	11.4
40°-50°	2880.9	18.1
50°-60°	3943.3	24.8
60°-70°	3716.8	23.4
70°-80°	1637.4	10.3
80°-90°	123.2	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°	15888.5	100.0
0°-180°	15888.5	100.0

Coefficient of Utilization

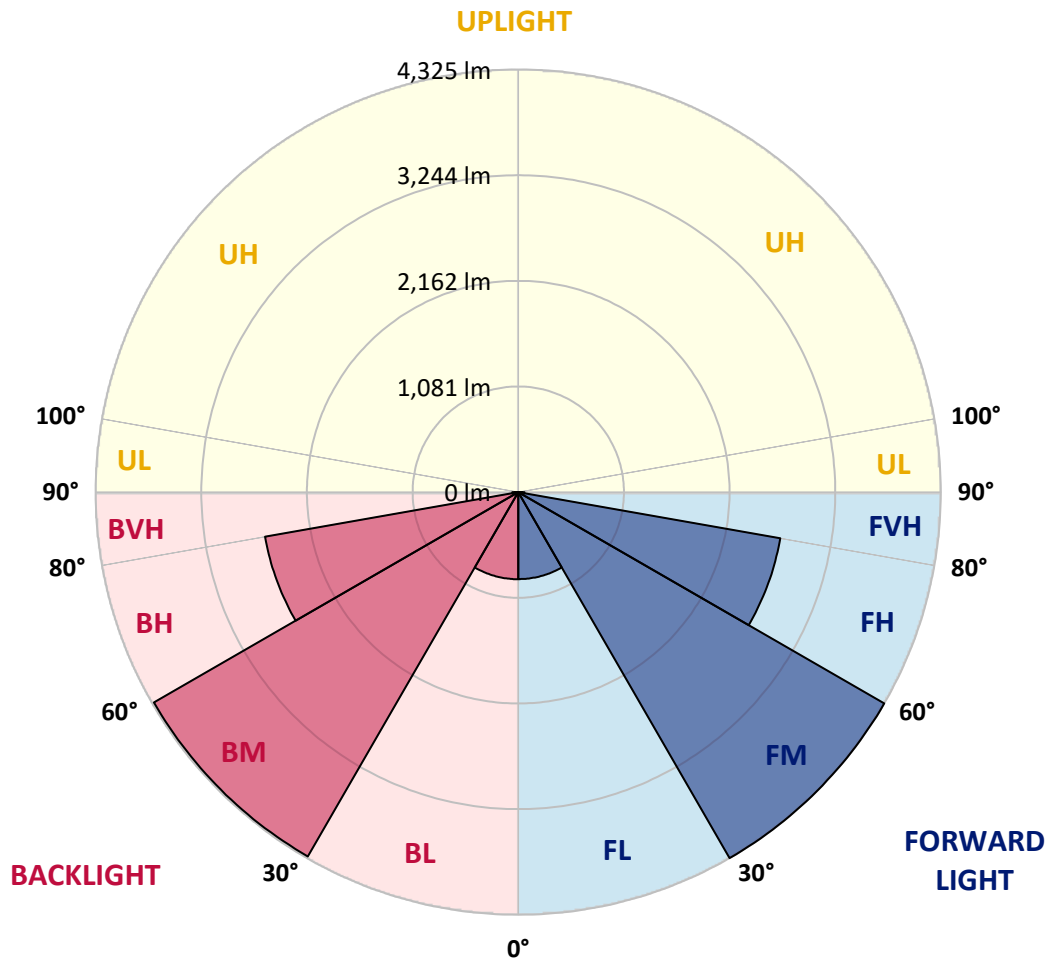


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.0	5.6			
FM (30°-60°)	4324.7	27.2			
FH (60°-80°)	2723.1	17.1			G2/5000
FVH (80°-90°)	62.9	0.4			G1/100
BL (0°-30°)	891.0	5.6	B2/1000		
BM (30°-60°)	4305.4	27.1	B3/5000		
BH (60°-80°)	2631.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	60.3	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°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1616.7	1616.7	1615.0	1623.5	1632.1	1635.5	1642.4	1644.1	1654.4	1645.8	1662.9
5°	1611.5	1609.8	1623.5	1644.1	1644.1	1666.4	1680.1	1698.9	1704.0	1714.3	1717.7
7.5°	1647.5	1644.1	1637.2	1659.5	1678.3	1712.6	1731.4	1764.0	1776.0	1789.7	1805.1
10°	1669.8	1669.8	1662.9	1702.3	1719.4	1765.7	1806.8	1839.3	1885.6	1901.0	1902.7
12.5°	1673.2	1678.3	1698.9	1750.3	1798.2	1858.2	1889.0	1950.6	1996.9	2026.0	2036.3
15°	1724.6	1714.3	1736.6	1806.8	1877.0	1930.1	1984.9	2029.4	2096.2	2133.9	2157.9
17.5°	1770.8	1760.5	1801.6	1885.6	1957.5	2039.7	2087.6	2135.6	2183.6	2217.8	2219.5
20°	1844.5	1853.0	1889.0	1979.8	2073.9	2145.9	2200.7	2209.2	2233.2	2282.9	2274.3
22.5°	1935.2	1928.4	2003.7	2103.1	2205.8	2265.8	2296.6	2274.3	2262.3	2315.4	2327.4
25°	2026.0	2046.5	2115.0	2207.5	2330.8	2411.3	2419.9	2358.2	2313.7	2332.5	2327.4
27.5°	2164.7	2168.1	2240.1	2349.7	2474.7	2544.9	2539.8	2452.4	2366.8	2368.5	2371.9
30°	2342.8	2325.7	2404.5	2503.8	2627.1	2690.5	2699.0	2574.0	2459.3	2425.0	2433.6
32.5°	2514.1	2534.6	2603.1	2716.2	2806.9	2842.9	2824.1	2712.7	2563.7	2517.5	2522.6
35°	2733.3	2729.9	2824.1	2920.0	2988.5	2995.3	2979.9	2817.2	2676.8	2616.8	2592.9
37.5°	2967.9	2998.7	3060.4	3139.2	3211.1	3214.5	3130.6	3000.5	2827.5	2728.2	2757.3
40°	3229.9	3264.2	3308.7	3423.5	3476.6	3421.8	3336.1	3159.7	2979.9	2892.6	2906.3
42.5°	3461.1	3476.6	3567.3	3702.6	3728.3	3704.3	3577.6	3363.5	3154.6	3058.7	3065.5
45°	3673.5	3694.1	3812.2	3933.8	3993.8	3952.7	3805.4	3601.6	3358.4	3276.2	3243.6
47.5°	3868.7	3909.8	4024.6	4149.6	4242.1	4245.5	4064.0	3817.4	3560.5	3452.6	3450.9
50°	4000.6	4060.6	4173.6	4315.7	4451.0	4504.1	4322.6	4057.1	3781.4	3666.7	3654.7
52.5°	4072.5	4134.2	4247.2	4468.1	4618.9	4701.1	4615.4	4281.5	4040.0	3920.1	3901.3
55°	3985.2	4026.3	4211.3	4521.2	4754.2	4889.4	4832.9	4591.5	4296.9	4199.3	4216.4
57.5°	3613.6	3699.2	3927.0	4314.0	4750.7	5083.0	5077.8	4884.3	4593.2	4500.7	4504.1
60°	2974.8	3046.7	3327.6	3868.7	4558.9	5161.7	5343.3	5168.6	4925.4	4817.5	4814.1
62.5°	2099.6	2190.4	2515.8	3106.6	3993.8	5052.1	5648.1	5526.5	5250.8	5172.0	5201.1
65°	1174.8	1229.6	1531.1	2065.4	3043.3	4449.3	5702.9	5898.2	5581.3	5461.5	5466.6
67.5°	628.5	649.1	789.5	1084.1	1861.6	3430.3	5149.8	6112.2	5939.3	5732.0	5699.5
70°	431.6	438.4	474.4	554.9	880.3	2051.7	3884.2	5730.3	6208.1	5925.6	5980.4
72.5°	364.8	361.4	369.9	378.5	460.7	917.9	2279.5	4409.9	5860.5	5754.3	5733.8
75°	316.8	315.1	318.5	310.0	320.3	404.2	1008.7	2748.7	4290.0	4788.4	4865.5
77.5°	262.0	263.7	265.5	256.9	253.5	267.2	405.9	1207.4	2111.6	2330.8	2514.1
80°	198.7	202.1	215.8	207.2	193.5	195.2	239.8	404.2	606.3	549.7	566.9
82.5°	135.3	137.0	166.1	155.8	145.6	131.9	154.1	208.9	236.3	179.8	157.6
85°	95.9	94.2	107.9	99.3	92.5	66.8	92.5	118.2	142.1	89.1	80.5
87.5°	22.3	22.3	44.5	36.0	34.3	27.4	36.0	46.2	61.7	39.4	36.0
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°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1657.8	1642.4	1642.4	1638.9	1625.2	1621.8	1609.8	1613.3	1604.7	1596.1
5°	1716.0	1695.5	1695.5	1666.4	1638.9	1635.5	1621.8	1621.8	1608.1	1611.5
7.5°	1796.5	1777.7	1746.8	1721.2	1683.5	1668.1	1642.4	1638.9	1635.5	1628.7
10°	1892.4	1868.4	1837.6	1784.5	1753.7	1724.6	1698.9	1662.9	1654.4	1656.1
12.5°	2022.6	1984.9	1918.1	1871.9	1832.5	1794.8	1757.1	1704.0	1692.0	1697.2
15°	2115.0	2067.1	2000.3	1983.2	1930.1	1883.8	1822.2	1762.3	1741.7	1736.6
17.5°	2190.4	2151.0	2111.6	2085.9	2043.1	1986.6	1901.0	1832.5	1786.2	1781.1
20°	2252.1	2200.7	2192.1	2207.5	2154.4	2116.8	2012.3	1928.4	1866.7	1841.0
22.5°	2289.7	2257.2	2281.2	2294.9	2291.4	2228.1	2120.2	2022.6	1945.5	1921.5
25°	2330.8	2293.2	2378.8	2425.0	2437.0	2332.5	2248.6	2120.2	2044.8	2029.4
27.5°	2351.4	2365.1	2464.4	2562.0	2553.5	2473.0	2359.9	2245.2	2185.3	2157.9
30°	2411.3	2433.6	2584.3	2693.9	2695.6	2616.8	2531.2	2401.1	2334.3	2322.3
32.5°	2519.2	2546.6	2707.6	2824.1	2844.6	2784.7	2699.0	2618.6	2550.0	2522.6
35°	2601.4	2671.6	2853.2	2959.4	3014.2	2978.2	2930.2	2846.3	2774.4	2750.4
37.5°	2719.6	2817.2	2991.9	3135.8	3197.4	3194.0	3158.0	3067.2	3007.3	2986.8
40°	2889.1	2986.8	3146.0	3336.1	3450.9	3445.7	3425.2	3355.0	3265.9	3255.6
42.5°	3069.0	3149.5	3356.7	3574.2	3738.6	3721.5	3666.7	3584.5	3522.8	3509.1
45°	3243.6	3368.7	3560.5	3839.6	3962.9	4005.7	3940.7	3800.2	3730.0	3721.5
47.5°	3462.9	3562.2	3802.0	4052.0	4235.2	4242.1	4130.8	4000.6	3872.2	3899.6
50°	3658.1	3790.0	4033.2	4307.2	4526.4	4447.6	4305.5	4142.8	4050.3	4014.3
52.5°	3867.0	4028.0	4310.6	4589.7	4711.3	4632.6	4401.4	4219.8	4079.4	4064.0
55°	4171.9	4255.8	4625.7	4839.8	4879.2	4713.0	4372.2	4115.4	3933.8	3889.3
57.5°	4481.8	4579.5	4903.1	5088.1	5047.0	4668.5	4183.9	3786.5	3548.5	3485.1
60°	4795.3	4915.1	5187.4	5357.0	5144.6	4362.0	3651.2	3139.2	2861.7	2805.2
62.5°	5144.6	5300.5	5543.7	5603.6	4855.2	3755.7	2897.7	2265.8	1984.9	1890.7
65°	5454.6	5613.9	5913.6	5552.2	4240.4	2801.8	1873.6	1294.7	1087.5	1012.1
67.5°	5709.8	5889.6	6036.9	4913.4	3104.9	1640.7	976.2	681.6	604.5	577.1
70°	5911.9	6211.6	5523.1	3611.9	1774.2	799.8	527.5	448.7	438.4	431.6
72.5°	5735.5	5696.1	4123.9	2084.2	777.5	440.1	381.9	369.9	368.2	369.9
75°	4690.8	4183.9	2466.1	906.0	390.5	318.5	316.8	311.7	320.3	320.3
77.5°	2276.0	1990.0	1031.0	388.8	256.9	250.0	258.6	258.6	258.6	258.6
80°	527.5	584.0	368.2	236.3	186.7	186.7	205.5	207.2	198.7	195.2
82.5°	179.8	239.8	202.1	149.0	123.3	138.7	155.8	159.3	131.9	133.6
85°	89.1	140.4	109.6	85.6	63.4	85.6	101.0	106.2	90.8	87.3
87.5°	41.1	61.7	41.1	29.1	22.3	30.8	29.1	24.0	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)