

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: P481277

Luminaire Tested: **IFLD-S-SA3B-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481277
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

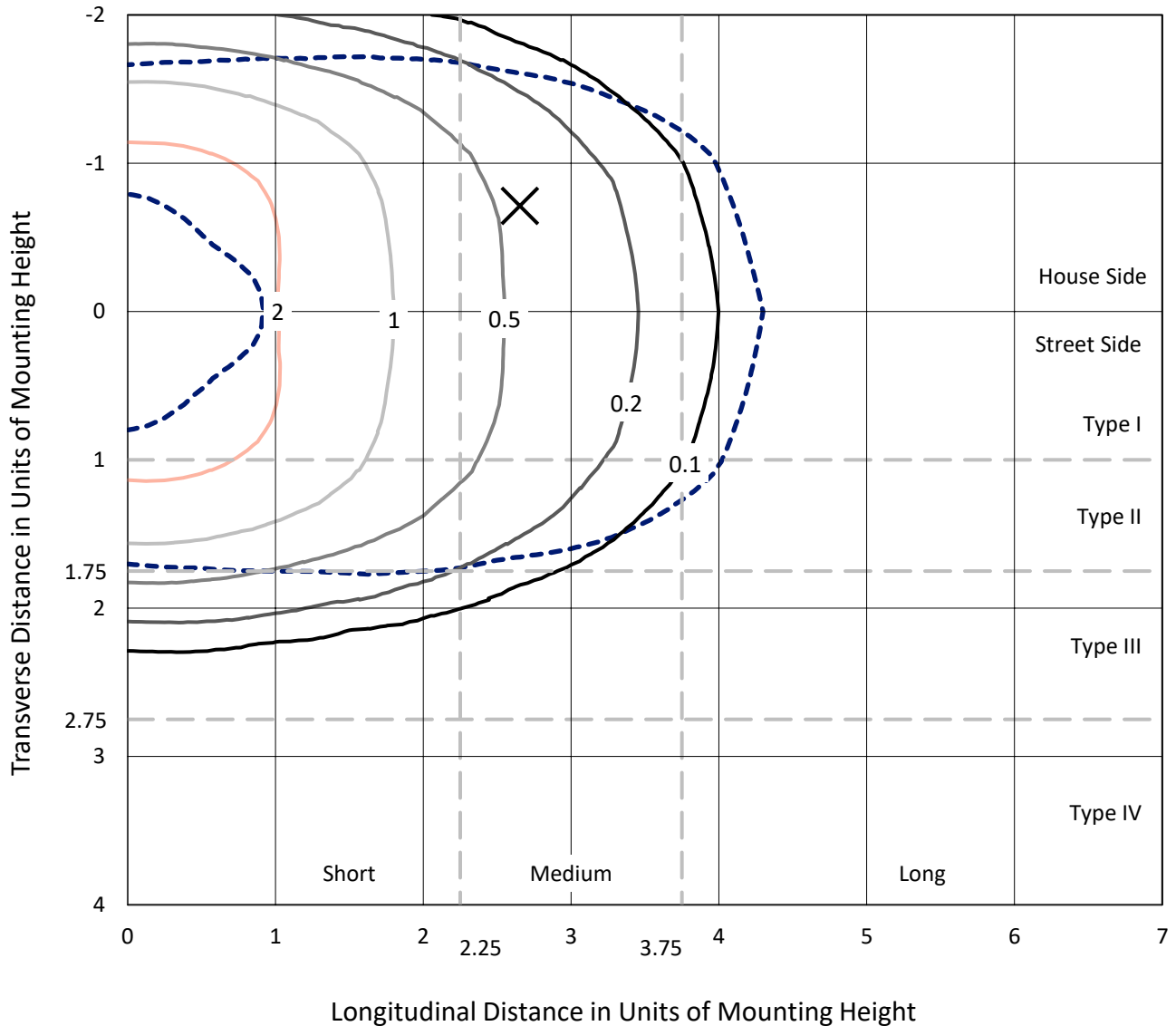
Lumens per Lamp: N/A
Luminaire Lumens: 17526.8 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 122.4
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

REPORT NUMBER: P481277
 CATALOG NUMBER: IFLD-S-SA3B-740-U-RW

Iso-Footcandle Lines of Horizontal Illumination

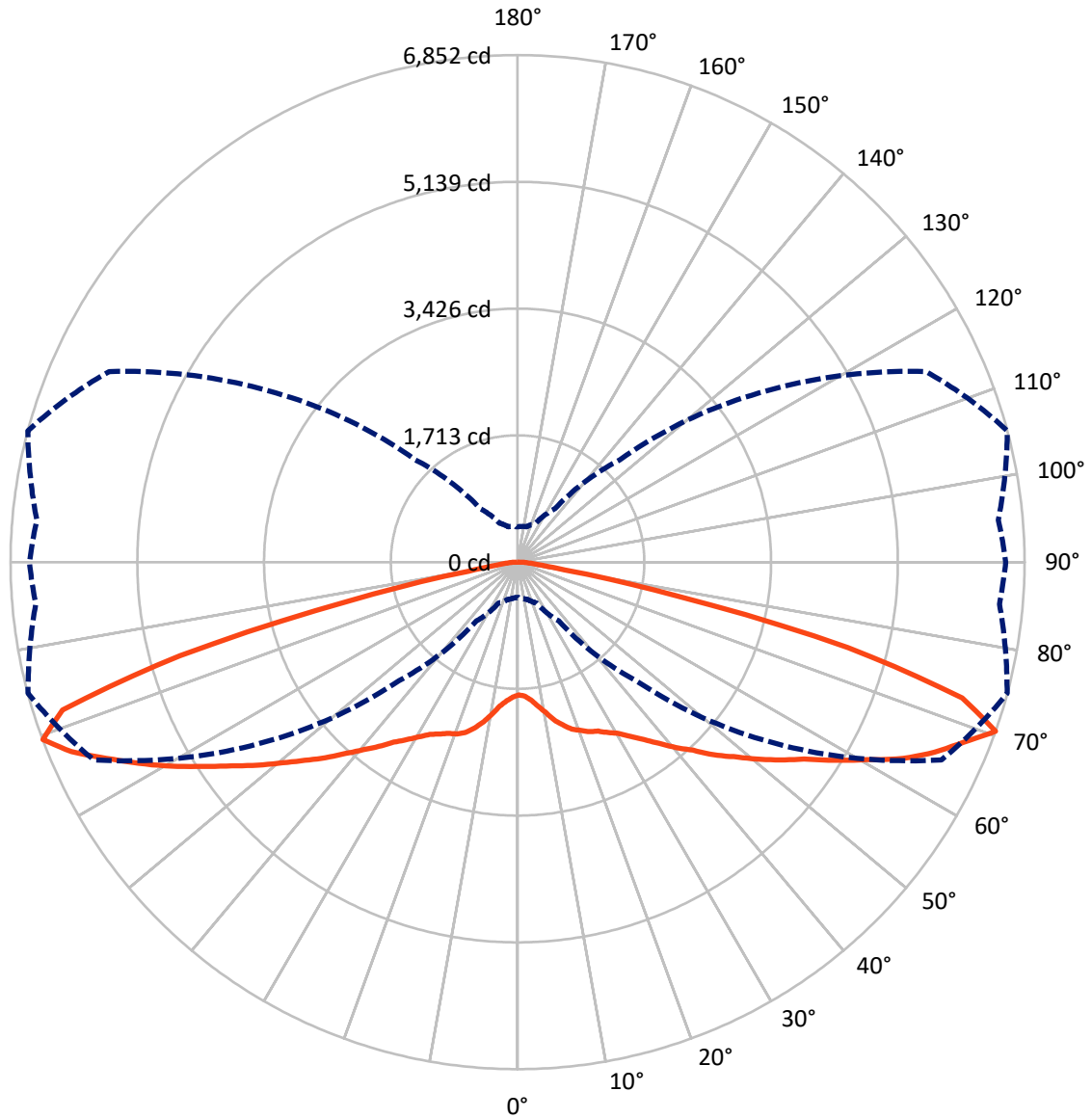
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

REPORT NUMBER: P481277
CATALOG NUMBER: IFLD-S-SA3B-740-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481277
 CATALOG NUMBER: IFLD-S-SA3B-740-U-RW

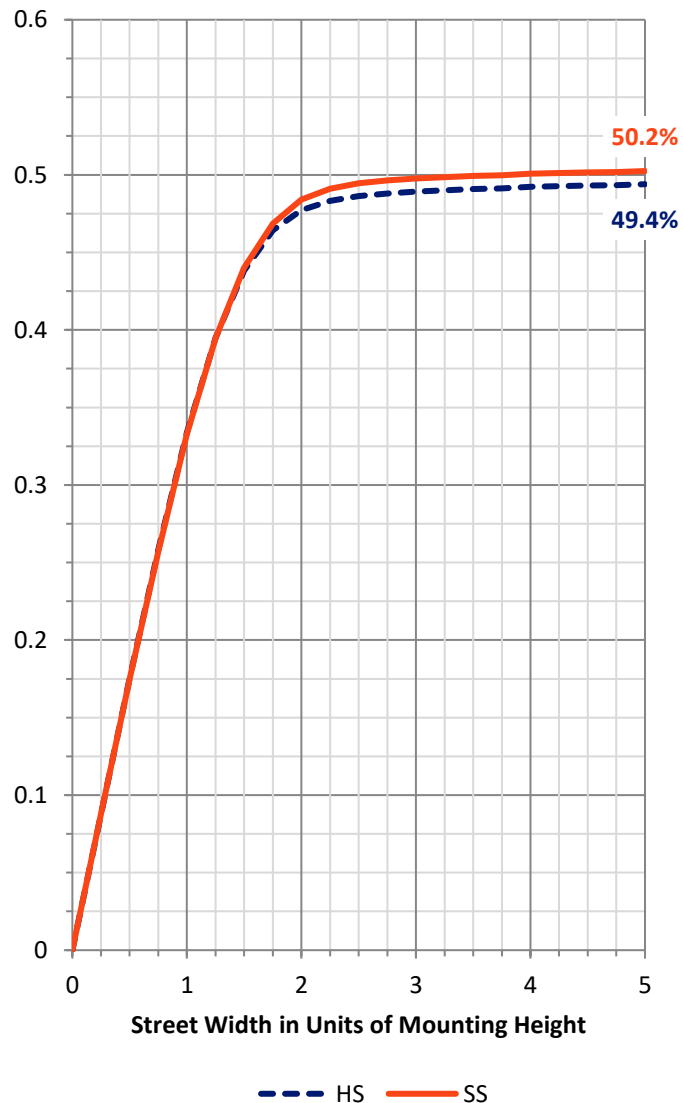
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8701.1	0.0	8701.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8825.8	0.0	8825.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	17526.8	0.0	17526.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	1.0
10°-20°	608.2	3.5
20°-30°	1177.8	6.7
30°-40°	1992.1	11.4
40°-50°	3178.0	18.1
50°-60°	4349.9	24.8
60°-70°	4100.1	23.4
70°-80°	1806.2	10.3
80°-90°	135.9	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°	17526.8	100.0
0°-180°	17526.8	100.0

Coefficient of Utilization



REPORT NUMBER: P481277

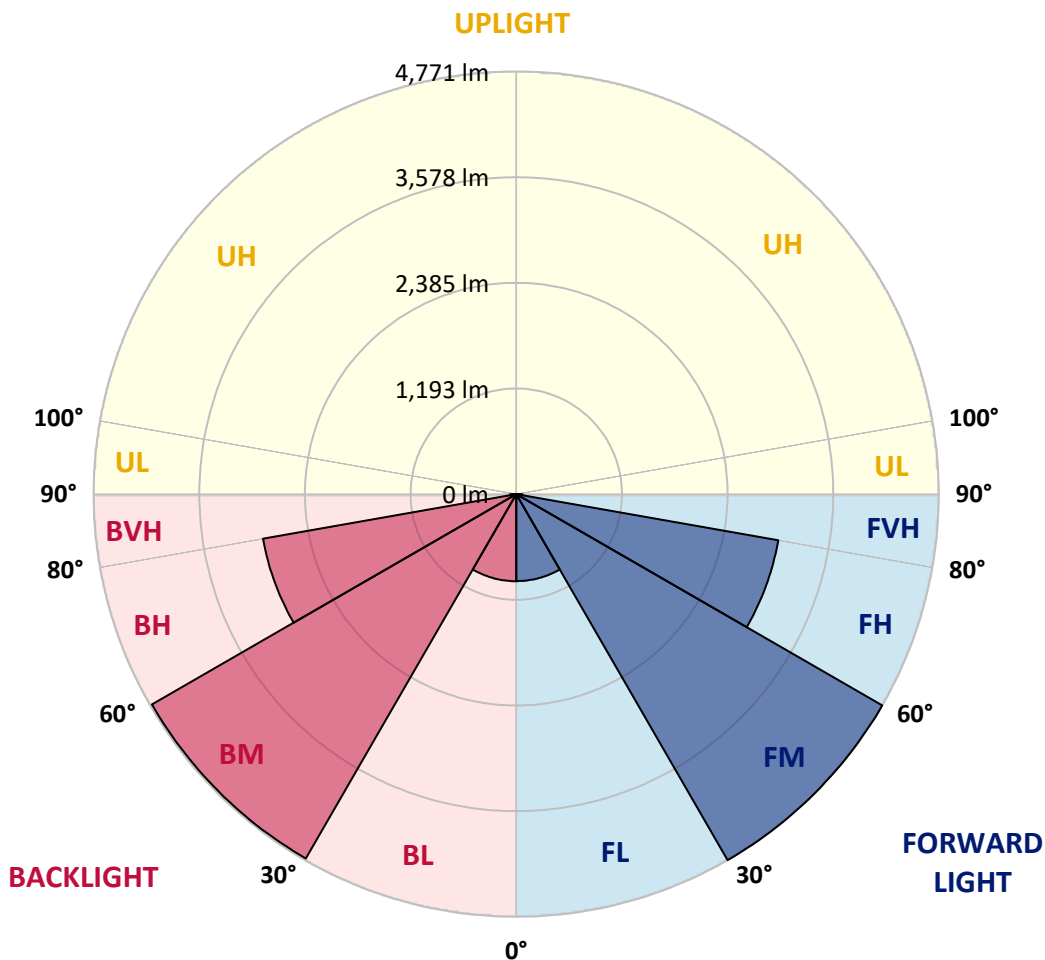
CATALOG NUMBER: IFLD-S-SA3B-740-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.8	5.6			
FM (30°-60°)	4770.6	27.2			
FH (60°-80°)	3003.9	17.1			G2/5000
FVH (80°-90°)	69.4	0.4			G1/100
BL (0°-30°)	982.8	5.6	B2/1000		
BM (30°-60°)	4749.3	27.1	B3/5000		
BH (60°-80°)	2902.4	16.6	B4/5000		G4/5000
BVH (80°-90°)	66.5	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





REPORT NUMBER: P481277
 CATALOG NUMBER: IFLD-S-SA3B-740-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7
2.5°	1783.4	1783.4	1781.5	1790.9	1800.4	1804.2	1811.7	1813.6	1825.0	1815.5	1834.4
5°	1777.7	1775.8	1790.9	1813.6	1813.6	1838.2	1853.3	1874.1	1879.7	1891.1	1894.9
7.5°	1817.4	1813.6	1806.1	1830.6	1851.4	1889.2	1910.0	1945.9	1959.1	1974.2	1991.2
10°	1842.0	1842.0	1834.4	1877.9	1896.7	1947.8	1993.1	2029.0	2080.0	2097.0	2098.9
12.5°	1845.7	1851.4	1874.1	1930.7	1983.6	2049.8	2083.8	2151.8	2202.8	2234.9	2246.2
15°	1902.4	1891.1	1915.6	1993.1	2070.5	2129.1	2189.6	2238.7	2312.4	2353.9	2380.4
17.5°	1953.4	1942.1	1987.4	2080.0	2159.3	2250.0	2302.9	2355.8	2408.7	2446.5	2448.4
20°	2034.7	2044.1	2083.8	2183.9	2287.8	2367.2	2427.6	2437.1	2463.5	2518.3	2508.8
22.5°	2134.8	2127.2	2210.3	2319.9	2433.3	2499.4	2533.4	2508.8	2495.6	2554.2	2567.4
25°	2234.9	2257.6	2333.1	2435.2	2571.2	2660.0	2669.4	2601.4	2552.3	2573.1	2567.4
27.5°	2387.9	2391.7	2471.1	2592.0	2729.9	2807.3	2801.7	2705.3	2610.9	2612.7	2616.5
30°	2584.4	2565.5	2652.4	2762.0	2898.0	2967.9	2977.4	2839.4	2712.9	2675.1	2684.5
32.5°	2773.3	2796.0	2871.6	2996.3	3096.4	3136.1	3115.3	2992.5	2828.1	2777.1	2782.8
35°	3015.1	3011.4	3115.3	3221.1	3296.6	3304.2	3287.2	3107.7	2952.8	2886.7	2860.2
37.5°	3274.0	3308.0	3376.0	3462.9	3542.2	3546.0	3453.4	3309.9	3119.0	3009.5	3041.6
40°	3563.0	3600.8	3649.9	3776.5	3835.0	3774.6	3680.1	3485.5	3287.2	3190.8	3206.0
42.5°	3818.0	3835.0	3935.2	4084.4	4112.8	4086.3	3946.5	3710.4	3479.9	3374.1	3381.6
45°	4052.3	4075.0	4205.3	4339.5	4405.6	4360.2	4197.8	3973.0	3704.7	3614.0	3578.1
47.5°	4267.7	4313.0	4439.6	4577.5	4679.5	4683.3	4483.0	4211.0	3927.6	3808.6	3806.7
50°	4413.1	4479.3	4603.9	4760.8	4910.0	4968.6	4768.3	4475.5	4171.3	4044.7	4031.5
52.5°	4492.5	4560.5	4685.2	4928.9	5095.1	5185.8	5091.4	4723.0	4456.6	4324.3	4303.6
55°	4396.1	4441.5	4645.5	4987.5	5244.4	5393.6	5331.3	5064.9	4740.0	4632.3	4651.2
57.5°	3986.2	4080.6	4331.9	4758.9	5240.6	5607.1	5601.4	5388.0	5066.8	4964.8	4968.6
60°	3281.5	3360.9	3670.7	4267.7	5029.0	5694.0	5894.3	5701.6	5433.3	5314.3	5310.5
62.5°	2316.1	2416.3	2775.2	3427.0	4405.6	5573.1	6230.5	6096.4	5792.2	5705.3	5737.5
65°	1296.0	1356.4	1688.9	2278.4	3357.1	4908.1	6291.0	6506.4	6156.9	6024.6	6030.3
67.5°	693.3	716.0	870.9	1195.9	2053.5	3784.0	5680.8	6742.5	6551.7	6323.1	6287.2
70°	476.1	483.6	523.3	612.1	971.0	2263.2	4284.7	6321.2	6848.3	6536.6	6597.0
72.5°	402.4	398.6	408.1	417.5	508.2	1012.6	2514.5	4864.7	6464.8	6347.7	6325.0
75°	349.5	347.6	351.4	341.9	353.3	445.8	1112.7	3032.1	4732.4	5282.2	5367.2
77.5°	289.0	290.9	292.8	283.4	279.6	294.7	447.7	1331.9	2329.4	2571.2	2773.3
80°	219.1	222.9	238.0	228.6	213.5	215.4	264.5	445.8	668.8	606.4	625.3
82.5°	149.2	151.1	183.3	171.9	160.6	145.5	170.0	230.5	260.7	198.4	173.8
85°	105.8	103.9	119.0	109.6	102.0	73.7	102.0	130.4	156.8	98.2	88.8
87.5°	24.6	24.6	49.1	39.7	37.8	30.2	39.7	51.0	68.0	43.5	39.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481277

CATALOG NUMBER: IFLD-S-SA3B-740-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7
2.5°	1828.7	1811.7	1811.7	1808.0	1792.8	1789.1	1775.8	1779.6	1770.2	1760.7
5°	1893.0	1870.3	1870.3	1838.2	1808.0	1804.2	1789.1	1789.1	1773.9	1777.7
7.5°	1981.8	1961.0	1927.0	1898.6	1857.1	1840.1	1811.7	1808.0	1804.2	1796.6
10°	2087.6	2061.1	2027.1	1968.5	1934.5	1902.4	1874.1	1834.4	1825.0	1826.8
12.5°	2231.1	2189.6	2115.9	2064.9	2021.4	1979.9	1938.3	1879.7	1866.5	1872.2
15°	2333.1	2280.2	2206.6	2187.7	2129.1	2078.1	2010.1	1944.0	1921.3	1915.6
17.5°	2416.3	2372.8	2329.4	2301.0	2253.8	2191.5	2097.0	2021.4	1970.4	1964.8
20°	2484.3	2427.6	2418.2	2435.2	2376.6	2335.0	2219.8	2127.2	2059.2	2030.9
22.5°	2525.8	2489.9	2516.4	2531.5	2527.7	2457.8	2338.8	2231.1	2146.1	2119.7
25°	2571.2	2529.6	2624.1	2675.1	2688.3	2573.1	2480.5	2338.8	2255.7	2238.7
27.5°	2593.9	2609.0	2718.5	2826.2	2816.8	2728.0	2603.3	2476.7	2410.6	2380.4
30°	2660.0	2684.5	2850.8	2971.7	2973.6	2886.7	2792.2	2648.6	2575.0	2561.7
32.5°	2779.0	2809.2	2986.8	3115.3	3137.9	3071.8	2977.4	2888.6	2813.0	2782.8
35°	2869.7	2947.1	3147.4	3264.5	3325.0	3285.3	3232.4	3139.8	3060.5	3034.0
37.5°	3000.0	3107.7	3300.4	3459.1	3527.1	3523.3	3483.7	3383.5	3317.4	3294.7
40°	3187.1	3294.7	3470.4	3680.1	3806.7	3801.0	3778.4	3700.9	3602.7	3591.3
42.5°	3385.4	3474.2	3702.8	3942.7	4124.1	4105.2	4044.7	3954.1	3886.1	3870.9
45°	3578.1	3716.0	3927.6	4235.6	4371.6	4418.8	4347.0	4192.1	4114.6	4105.2
47.5°	3819.9	3929.5	4194.0	4469.8	4672.0	4679.5	4556.7	4413.1	4271.5	4301.7
50°	4035.3	4180.8	4449.0	4751.3	4993.1	4906.2	4749.4	4569.9	4467.9	4428.3
52.5°	4265.8	4443.4	4755.1	5063.0	5197.2	5110.3	4855.2	4655.0	4500.0	4483.0
55°	4602.1	4694.6	5102.7	5338.8	5382.3	5199.0	4823.1	4539.7	4339.5	4290.3
57.5°	4944.0	5051.7	5408.7	5612.8	5567.4	5149.9	4615.3	4177.0	3914.4	3844.5
60°	5289.7	5422.0	5722.3	5909.4	5675.1	4811.8	4027.7	3462.9	3156.8	3094.5
62.5°	5675.1	5847.0	6115.3	6181.4	5355.8	4143.0	3196.5	2499.4	2189.6	2085.7
65°	6017.1	6192.8	6523.4	6124.7	4677.6	3090.7	2066.8	1428.2	1199.6	1116.5
67.5°	6298.5	6496.9	6659.4	5420.1	3425.1	1809.8	1076.8	751.9	666.9	636.7
70°	6521.5	6852.1	6092.6	3984.3	1957.2	882.3	581.9	495.0	483.6	476.1
72.5°	6326.9	6283.4	4549.2	2299.1	857.7	485.5	421.3	408.1	406.2	408.1
75°	5174.5	4615.3	2720.4	999.4	430.7	351.4	349.5	343.8	353.3	353.3
77.5°	2510.7	2195.2	1137.3	428.8	283.4	275.8	285.3	285.3	285.3	285.3
80°	581.9	644.2	406.2	260.7	205.9	205.9	226.7	228.6	219.1	215.4
82.5°	198.4	264.5	222.9	164.4	136.0	153.0	171.9	175.7	145.5	147.4
85°	98.2	154.9	120.9	94.5	69.9	94.5	111.5	117.1	100.1	96.3
87.5°	45.3	68.0	45.3	32.1	24.6	34.0	32.1	26.4	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)