

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: P478115

Luminaire Tested: **IFLD-S-SA2D-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478115
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-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

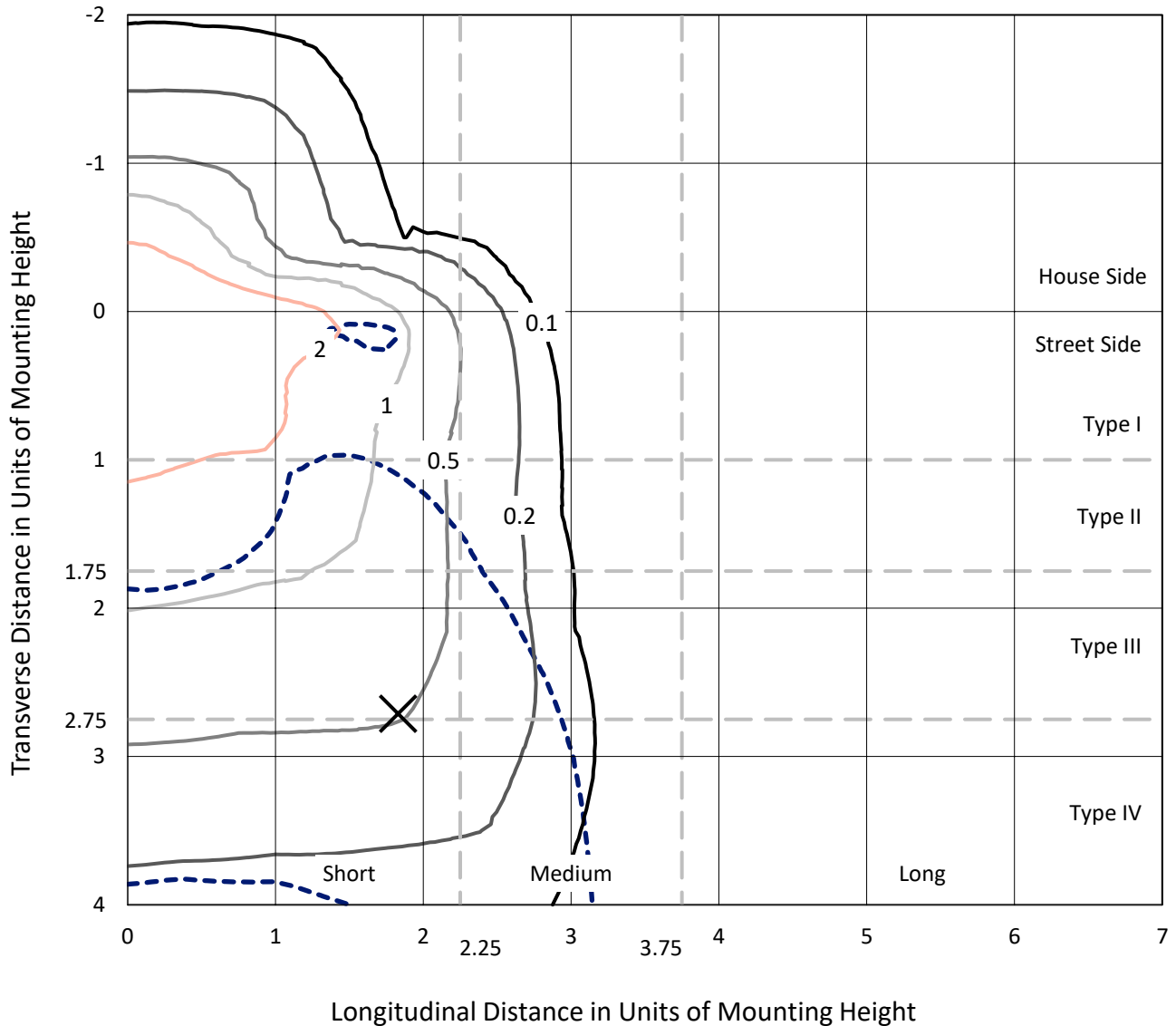
Lumens per Lamp: N/A
Luminaire Lumens: 15803 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

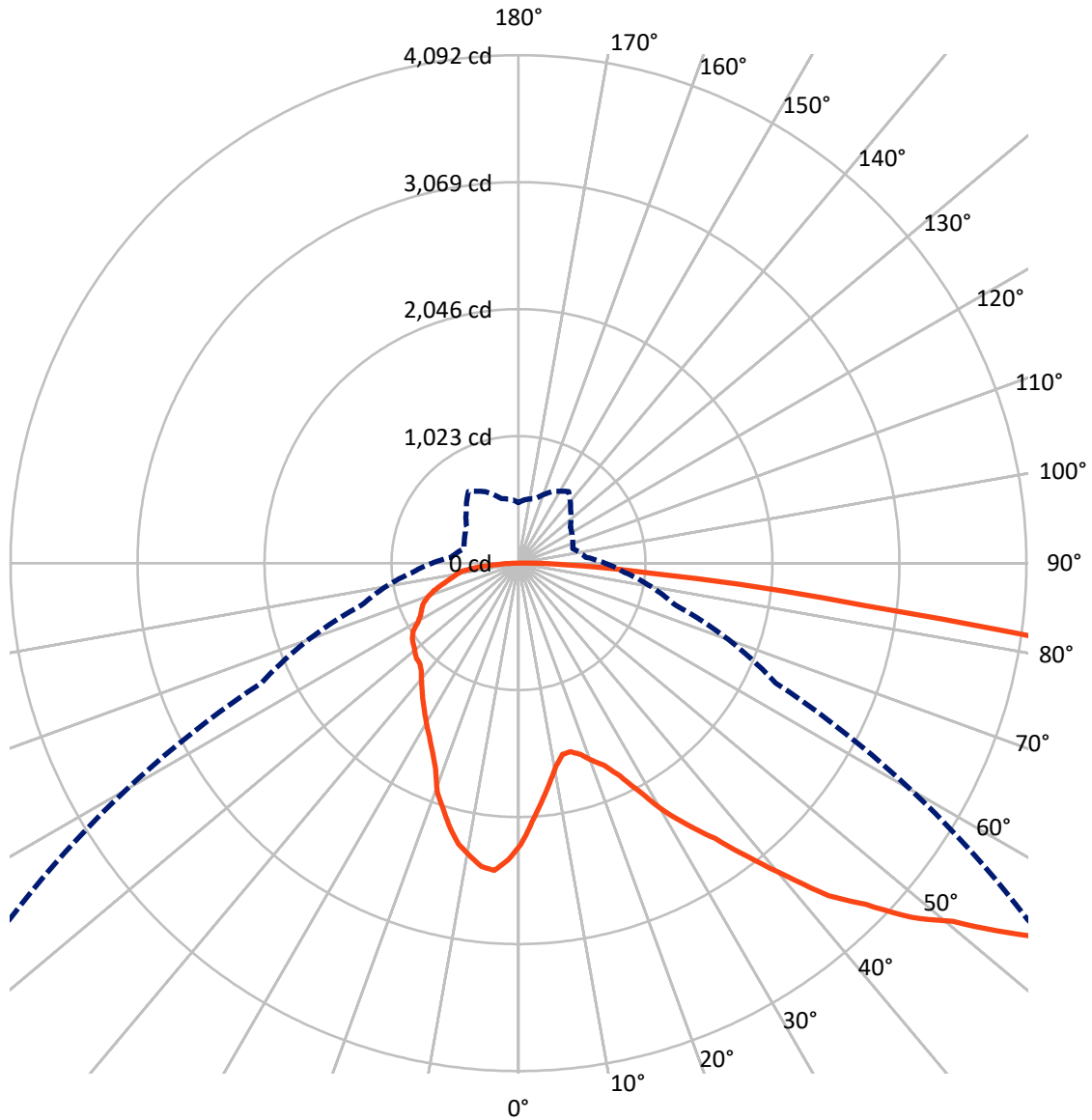
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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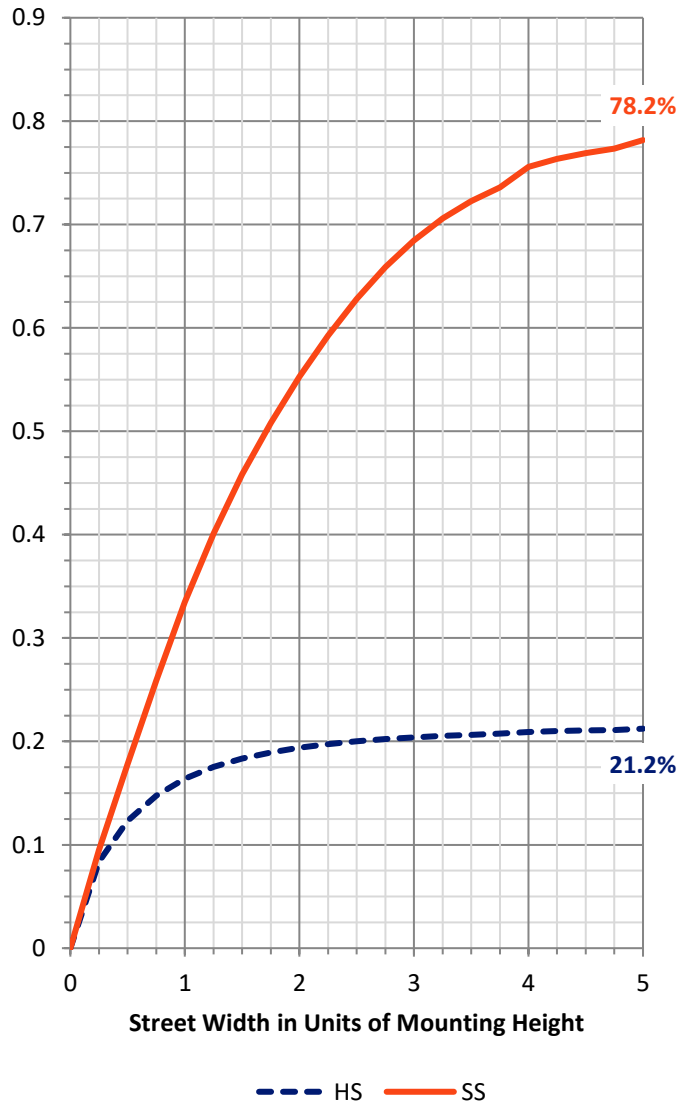
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3413.7	0.0	3413.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	12389.4	0.0	12389.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	15803.0	0.0	15803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	1.3
10°-20°	585.2	3.7
20°-30°	963.2	6.1
30°-40°	1440.4	9.1
40°-50°	2135.3	13.5
50°-60°	3077.2	19.5
60°-70°	3926.9	24.8
70°-80°	3055.8	19.3
80°-90°	410.0	2.6
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°	15803.0	100.0
0°-180°	15803.0	100.0

Coefficient of Utilization



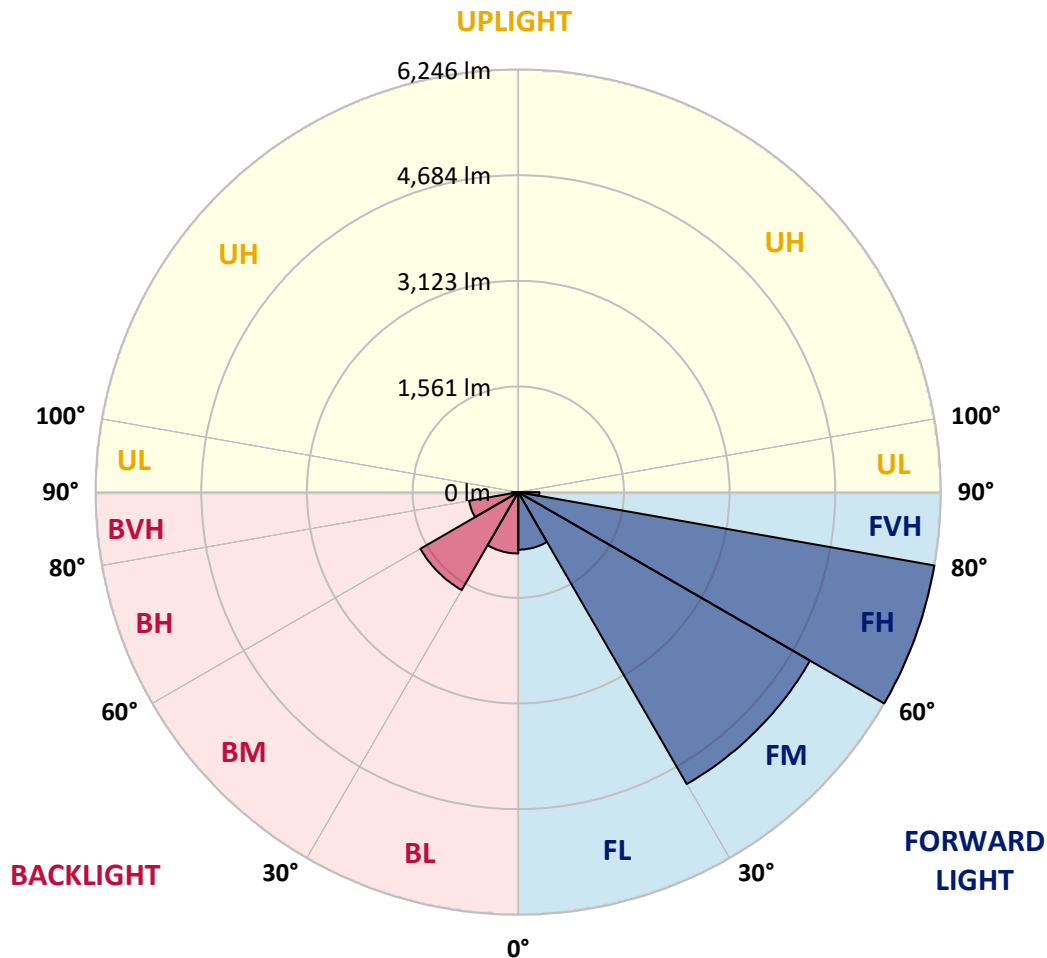
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.5	5.4			
FM (30°-60°)	4981.2	31.5			
FH (60°-80°)	6245.7	39.5			G3/7500
FVH (80°-90°)	312.0	2.0			G3/500
BL (0°-30°)	907.0	5.7	B2/1000		
BM (30°-60°)	1671.7	10.6	B2/2500		
BH (60°-80°)	737.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	97.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6
2.5°	2030.0	2036.7	2058.4	2063.4	2086.8	2073.5	2101.9	2152.0	2180.4	2222.2	2272.3
5°	1869.6	1841.2	1854.6	1906.4	1933.1	1939.8	1969.9	2055.1	2108.6	2170.4	2263.9
7.5°	1680.8	1675.8	1702.6	1736.0	1789.4	1794.4	1861.3	1936.5	2046.7	2183.7	2294.0
10°	1552.2	1573.9	1588.9	1624.0	1660.8	1660.8	1746.0	1876.3	2001.6	2133.6	2300.7
12.5°	1545.5	1532.1	1535.5	1553.9	1580.6	1614.0	1694.2	1811.2	1969.9	2123.6	2329.1
15°	1567.2	1572.2	1542.2	1565.5	1575.6	1587.3	1675.8	1807.8	1949.8	2158.7	2377.6
17.5°	1682.5	1654.1	1607.3	1585.6	1620.7	1620.7	1680.8	1784.4	1953.2	2177.1	2447.7
20°	1772.7	1772.7	1695.9	1672.5	1697.5	1692.5	1734.3	1811.2	1969.9	2213.8	2526.3
22.5°	1924.8	1946.5	1819.5	1771.1	1769.4	1782.8	1819.5	1884.7	2016.7	2265.6	2601.4
25°	2143.6	2148.7	2001.6	1951.5	1898.0	1919.8	1926.4	1991.6	2058.4	2325.8	2686.7
27.5°	2387.6	2384.2	2248.9	2123.6	2088.5	2093.5	2056.8	2100.2	2120.3	2344.1	2808.6
30°	2658.3	2628.2	2526.3	2349.2	2320.8	2289.0	2208.8	2207.1	2248.9	2447.7	2977.4
32.5°	2835.4	2796.9	2726.8	2599.8	2521.2	2524.6	2397.6	2395.9	2359.2	2561.3	3124.4
35°	3009.1	2950.6	2932.3	2801.9	2723.4	2731.8	2629.9	2616.5	2549.7	2733.4	3366.7
37.5°	3218.0	3166.2	3194.6	3096.0	2999.1	2959.0	2912.2	2895.5	2808.6	2975.7	3697.5
40°	3448.5	3431.8	3413.5	3365.0	3306.5	3309.9	3259.7	3243.0	3114.4	3268.1	4015.0
42.5°	3759.3	3695.8	3600.6	3632.3	3662.4	3694.2	3677.4	3634.0	3500.3	3565.5	4369.2
45°	4048.4	3964.8	3789.4	3799.4	3923.1	3948.1	4150.3	4145.3	3876.3	3943.1	4771.8
47.5°	4243.9	4205.4	4100.2	4088.5	4265.6	4263.9	4628.1	4628.1	4272.3	4319.0	5204.6
50°	4534.6	4434.3	4389.2	4447.7	4537.9	4599.7	5116.0	5147.8	4661.6	4711.7	5771.0
52.5°	4875.4	4750.1	4636.5	4786.9	4947.3	4987.4	5598.9	5585.5	4960.6	5167.8	6434.3
55°	5157.8	5094.3	5015.8	5102.6	5365.0	5415.1	6083.4	5959.8	5259.7	5545.4	6753.4
57.5°	5486.9	5525.4	5542.1	5520.3	5832.8	5911.3	6636.4	6282.2	5517.0	5799.4	6940.5
60°	5983.2	6006.6	6028.3	6080.1	6410.9	6521.2	7074.2	6686.6	5679.1	5946.4	6955.6
62.5°	6738.4	6648.1	6696.6	6875.4	7141.0	7266.3	7719.1	6970.6	5802.7	6035.0	6464.4
65°	7602.2	7480.2	7430.1	7660.7	8349.0	8248.8	8524.5	7182.8	5623.9	5704.1	5481.9
67.5°	8477.7	8491.0	8362.4	8825.2	9669.0	9669.0	9273.0	7284.7	5139.4	4623.1	3844.5
70°	9172.7	9214.5	9284.7	10181.9	11518.5	11720.7	10200.3	6867.0	4152.0	3077.6	2101.9
72.5°	9162.7	9037.4	9396.6	11049.1	13199.4	13030.6	10394.1	5430.1	2591.4	1507.1	964.1
73°	8957.2	8851.9	9244.6	11040.7	13267.9	13109.2	10252.1	5005.7	2285.7	1306.6	857.1
75°	7314.8	7124.3	7792.6	9999.8	12275.4	12397.4	8709.9	3264.8	1253.1	805.3	603.2
77.5°	3334.9	3418.5	4289.0	6708.3	9460.1	9603.8	5725.9	1411.8	686.7	564.7	444.4
80°	1071.0	1124.5	1669.1	3334.9	5929.7	6188.7	2646.6	641.6	489.5	432.7	332.5
82.5°	409.3	407.7	700.1	1386.8	2810.3	2975.7	967.4	391.0	364.2	319.1	235.6
85°	143.7	150.4	264.0	548.0	1106.1	1157.9	335.8	217.2	252.3	213.9	135.3
87.5°	50.1	51.8	93.6	198.8	380.9	402.7	93.6	86.9	125.3	123.6	68.5
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°	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6	2265.6
2.5°	2289.0	2304.0	2309.1	2369.2	2369.2	2369.2	2392.6	2392.6	2385.9	2369.2	2409.3
5°	2299.0	2325.8	2377.6	2429.4	2442.7	2454.4	2486.2	2459.4	2469.5	2452.7	2467.8
7.5°	2327.4	2364.2	2461.1	2492.8	2471.1	2496.2	2462.8	2444.4	2426.0	2432.7	2409.3
10°	2375.9	2422.7	2467.8	2526.3	2484.5	2459.4	2390.9	2374.2	2315.7	2295.7	2314.1
12.5°	2436.0	2492.8	2569.7	2548.0	2467.8	2395.9	2322.4	2252.2	2217.2	2167.0	2180.4
15°	2496.2	2561.3	2573.0	2536.3	2436.0	2345.8	2212.1	2113.6	2078.5	2033.4	2056.8
17.5°	2561.3	2623.2	2603.1	2507.9	2372.5	2235.5	2083.5	1986.6	1913.1	1884.7	1884.7
20°	2658.3	2688.3	2656.6	2461.1	2295.7	2115.2	1968.2	1857.9	1784.4	1772.7	1754.3
22.5°	2733.4	2781.9	2639.9	2392.6	2183.7	1958.2	1789.4	1747.7	1725.9	1707.6	1684.2
25°	2830.3	2828.7	2609.8	2329.1	1991.6	1771.1	1669.1	1665.8	1655.8	1649.1	1680.8
27.5°	2922.2	2883.8	2574.7	2172.0	1792.8	1629.0	1573.9	1610.7	1625.7	1615.7	1629.0
30°	3067.6	3004.1	2524.6	2005.0	1617.3	1485.3	1495.4	1545.5	1570.6	1585.6	1565.5
32.5°	3221.3	3124.4	2421.0	1831.2	1462.0	1395.1	1418.5	1470.3	1500.4	1517.1	1535.5
35°	3443.5	3218.0	2315.7	1604.0	1350.0	1340.0	1353.4	1381.8	1425.2	1436.9	1441.9
37.5°	3717.5	3360.0	2173.7	1421.9	1263.1	1274.8	1288.2	1298.2	1299.9	1321.6	1313.3
40°	3991.6	3480.3	1966.5	1248.1	1172.9	1236.4	1229.7	1211.3	1196.3	1176.2	1171.2
42.5°	4232.2	3585.6	1736.0	1101.1	1092.7	1196.3	1174.6	1127.8	1092.7	1077.7	1052.6
45°	4502.8	3734.3	1503.7	1009.2	1030.9	1147.8	1141.2	1069.3	1024.2	970.7	964.1
47.5°	4853.7	3889.6	1281.5	913.9	972.4	1129.5	1132.8	1040.9	975.8	903.9	893.9
50°	5303.1	4113.5	1112.8	873.8	937.3	1102.7	1107.7	1002.5	917.3	843.8	837.1
52.5°	5734.2	4342.4	972.4	812.0	913.9	1071.0	1082.7	967.4	868.8	776.9	781.9
55°	5951.4	4258.9	852.1	766.9	860.5	1019.2	1062.6	942.3	795.3	731.8	730.1
57.5°	5999.9	4053.4	756.9	720.1	815.4	964.1	1029.2	867.1	761.9	708.4	701.7
60°	5841.1	3694.2	681.7	670.0	758.5	907.2	952.4	827.0	728.5	685.0	675.0
62.5°	5450.2	3321.6	629.9	646.6	710.1	845.4	903.9	798.6	696.7	666.7	644.9
65°	4469.4	2731.8	588.1	601.5	660.0	785.3	873.8	766.9	668.3	639.9	638.2
67.5°	3096.0	1883.0	554.7	579.8	619.9	741.8	843.8	731.8	631.6	621.5	608.2
70°	1585.6	1004.2	511.3	531.3	576.4	686.7	790.3	695.1	593.1	591.5	574.8
72.5°	803.7	588.1	461.1	491.2	523.0	614.9	723.5	646.6	544.7	526.3	499.6
73°	695.1	544.7	452.8	479.5	509.6	594.8	703.4	634.9	538.0	511.3	486.2
75°	506.3	429.4	406.0	432.7	456.1	536.3	636.6	581.4	494.6	466.2	442.8
77.5°	379.3	330.8	337.5	367.6	387.6	462.8	566.4	526.3	447.8	409.3	399.3
80°	279.0	252.3	279.0	307.4	322.5	407.7	516.3	456.1	377.6	334.2	325.8
82.5°	198.8	183.8	215.5	233.9	240.6	337.5	464.5	364.2	285.7	228.9	210.5
85°	113.6	111.9	145.4	143.7	148.7	197.2	305.8	242.3	183.8	140.3	137.0
87.5°	50.1	55.1	73.5	58.5	61.8	93.6	130.3	90.2	75.2	41.8	31.7
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)