

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: P476904

Luminaire Tested: **IFLD-S-SA2B-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476904
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

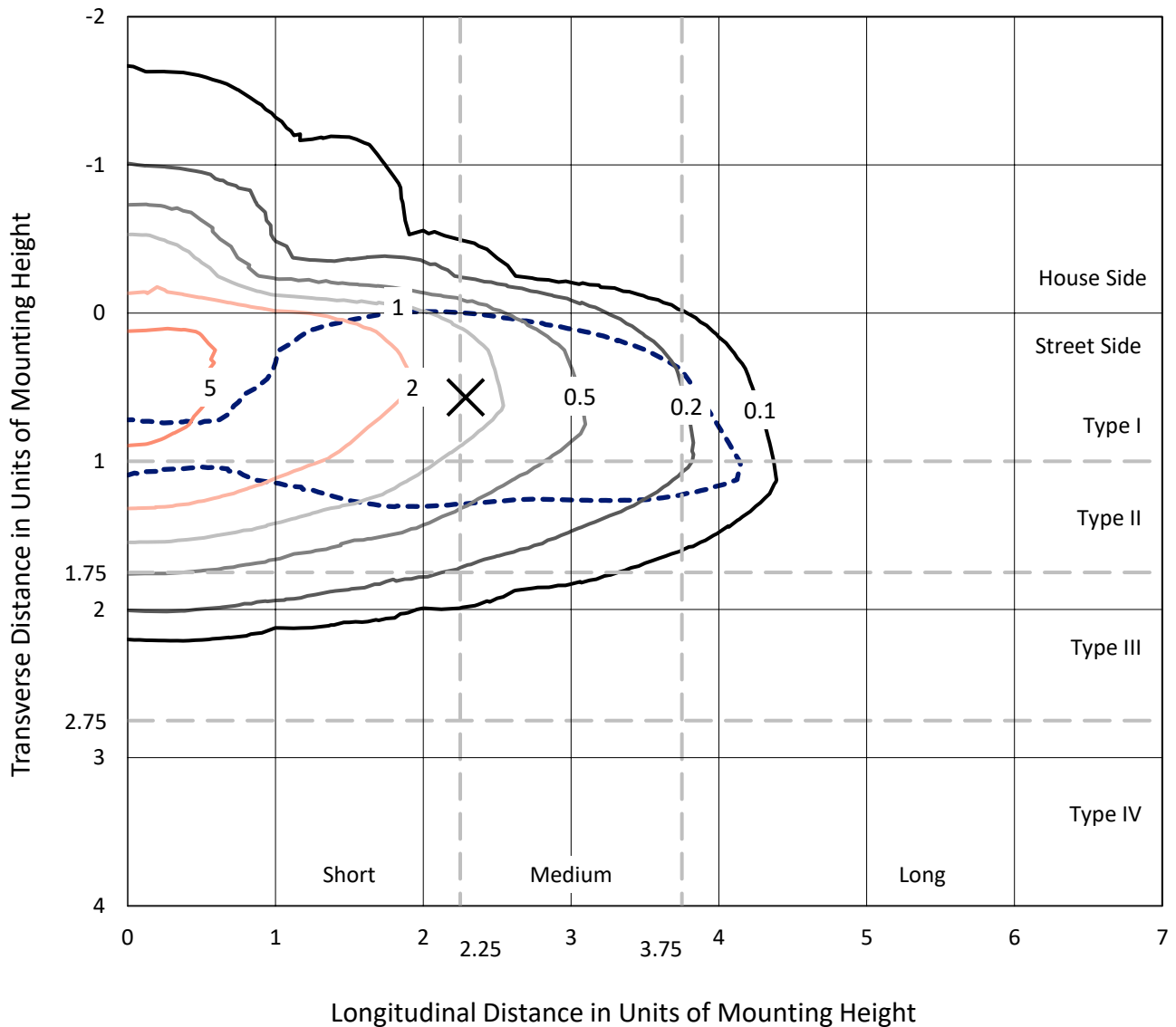
Lumens per Lamp: N/A
Luminaire Lumens: 10455.5 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

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Iso-Footcandle Lines of Horizontal Illumination

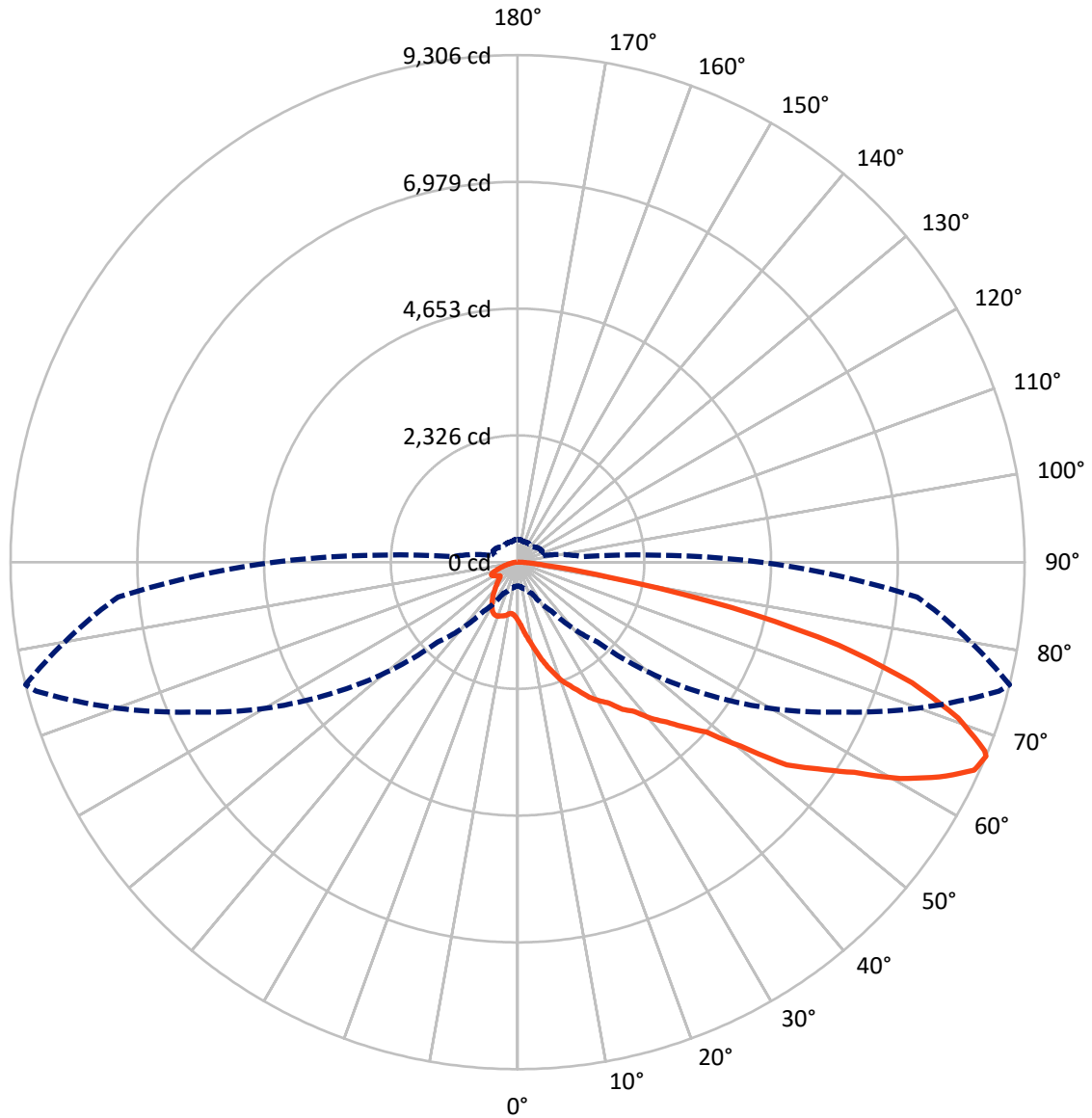
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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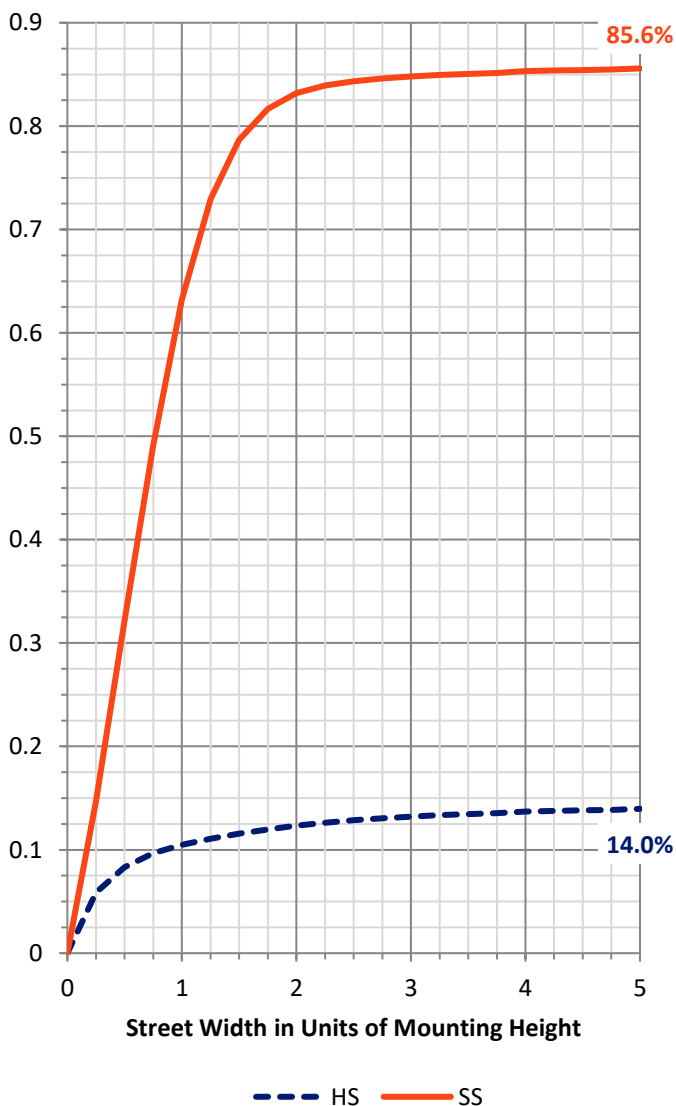
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1487.4	0.0	1487.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	8968.0	0.0	8968.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	10455.5	0.0	10455.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	1.2
10°-20°	464.8	4.4
20°-30°	864.2	8.3
30°-40°	1369.9	13.1
40°-50°	1894.8	18.1
50°-60°	2330.7	22.3
60°-70°	2168.8	20.7
70°-80°	1088.3	10.4
80°-90°	150.1	1.4
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°	10455.5	100.0
0°-180°	10455.5	100.0

Coefficient of Utilization



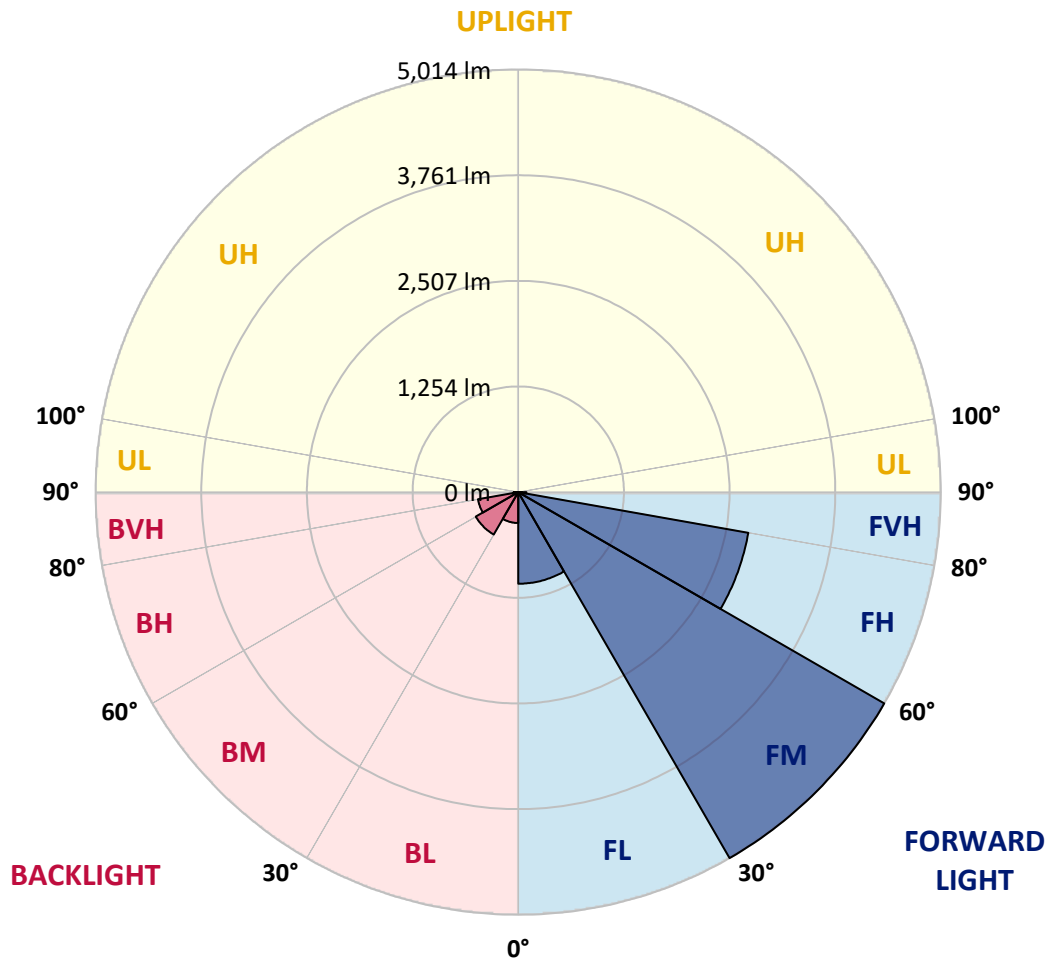
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.7	10.4			
FM (30°-60°)	5014.1	48.0			
FH (60°-80°)	2771.7	26.5			G2/5000
FVH (80°-90°)	95.6	0.9			G1/100
BL (0°-30°)	366.3	3.5	B1/500		
BM (30°-60°)	581.3	5.6	B1/1000		
BH (60°-80°)	485.4	4.6	B1/500		G1/500
BVH (80°-90°)	54.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1484.6	1466.7	1448.8	1410.7	1397.6	1361.9	1296.3	1223.7	1164.1	1155.7	1114.0
5°	1842.0	1815.8	1809.9	1788.4	1720.5	1651.4	1544.2	1427.4	1282.0	1292.8	1149.8
7.5°	2110.1	2094.6	2062.5	2042.2	2001.7	1910.0	1799.1	1644.3	1459.6	1423.8	1229.6
10°	2312.7	2291.2	2290.0	2272.2	2250.7	2156.6	2072.0	1863.5	1626.4	1577.5	1327.3
12.5°	2415.1	2411.6	2474.7	2474.7	2466.4	2427.1	2281.7	2091.1	1784.8	1768.2	1440.5
15°	2526.0	2496.2	2551.0	2592.7	2614.1	2634.4	2514.0	2312.7	1987.4	1955.2	1562.0
17.5°	2526.0	2523.6	2578.4	2647.5	2759.5	2785.7	2720.2	2516.4	2155.4	2131.6	1695.5
20°	2483.1	2517.6	2555.7	2648.7	2770.2	2876.3	2895.3	2724.9	2341.3	2322.2	1846.8
22.5°	2683.2	2649.9	2689.2	2724.9	2819.1	2979.9	3032.3	2908.4	2536.7	2464.0	1983.8
25°	3019.2	2996.6	2968.0	2915.6	2954.9	3025.2	3105.0	3044.3	2703.5	2622.5	2116.1
27.5°	3346.9	3348.1	3286.1	3171.7	3087.1	3101.4	3195.6	3163.4	2844.1	2808.3	2206.6
30°	3812.8	3784.2	3715.1	3560.2	3394.5	3258.7	3243.2	3274.2	3022.8	2953.7	2336.5
32.5°	4161.9	4167.8	4070.1	3847.3	3620.9	3510.1	3374.3	3387.4	3136.0	3084.8	2440.2
35°	4444.2	4437.1	4368.0	4183.3	3915.2	3781.8	3598.3	3523.2	3399.3	3318.3	2598.6
37.5°	4749.3	4690.9	4578.9	4370.4	4198.8	4014.1	3835.4	3666.2	3574.5	3476.8	2734.5
40°	4872.0	4872.0	4721.9	4626.5	4422.8	4283.4	4167.8	3854.5	3787.7	3768.7	2908.4
42.5°	4785.0	4838.6	4776.7	4668.2	4584.8	4408.5	4377.5	4049.9	4051.1	4012.9	3116.9
45°	4776.7	4702.8	4651.6	4679.0	4639.7	4630.1	4708.8	4320.3	4327.5	4322.7	3396.9
47.5°	4537.2	4503.8	4580.1	4625.4	4657.5	4805.3	5031.7	4643.2	4694.5	4658.7	3719.8
50°	4298.9	4292.9	4340.6	4505.0	4644.4	4887.5	5339.1	5141.3	5309.3	5306.9	4304.8
52.5°	3646.0	3709.1	3896.2	4244.1	4588.4	4999.5	5571.4	5777.5	6098.0	6185.0	4789.8
55°	3021.6	2988.3	3264.7	3769.9	4344.2	5043.6	5831.1	6160.0	6631.8	6695.0	5287.8
57.5°	2350.8	2412.8	2630.8	3115.7	3839.0	4825.5	6021.8	6537.7	7234.7	7283.6	5865.7
60°	1753.9	1762.2	2001.7	2392.5	3167.0	4333.4	6083.7	6924.9	7925.8	8065.2	6471.0
62.5°	1103.3	1153.4	1335.7	1720.5	2384.2	3644.8	5806.1	7159.6	8650.2	8687.1	7081.0
65°	594.6	626.7	763.7	1005.6	1665.7	2757.1	5069.8	7019.1	8991.0	9210.2	7352.7
67°	439.7	445.6	508.8	642.2	1114.0	2075.6	4227.4	6510.3	9145.9	9305.5	7363.4
67.5°	412.3	420.6	470.6	576.7	987.7	1911.1	4007.0	6329.2	9076.8	9248.3	7280.0
70°	352.7	355.1	367.0	396.8	554.0	1149.8	2728.5	5186.5	8413.1	8577.5	6695.0
72.5°	313.4	315.7	320.5	326.5	375.3	664.9	1659.7	3991.5	7312.2	7574.3	5776.3
75°	275.2	283.6	286.0	281.2	319.3	432.5	882.9	2933.4	5964.6	6092.1	4491.9
77.5°	233.5	237.1	241.9	246.6	284.8	322.9	424.2	1980.3	4094.0	4016.5	2429.4
80°	196.6	197.8	201.4	204.9	246.6	246.6	240.7	1070.0	1788.4	1709.8	820.9
82.5°	140.6	148.9	157.3	166.8	204.9	165.6	157.3	476.6	566.0	538.6	277.6
85°	54.8	66.7	103.7	114.4	129.9	89.4	104.9	206.1	235.9	233.5	103.7
87.5°	9.5	10.7	28.6	44.1	47.7	31.0	50.0	73.9	88.2	95.3	38.1
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°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1079.5	1042.6	998.5	954.4	925.8	880.5	876.9	849.5	846.0	836.4	841.2
5°	1087.8	1043.7	954.4	884.1	851.9	825.7	831.7	819.7	816.2	810.2	800.7
7.5°	1153.4	1066.4	932.9	872.2	848.3	836.4	836.4	822.1	811.4	818.6	825.7
10°	1196.3	1077.1	949.6	888.8	869.8	843.6	853.1	835.2	841.2	826.9	826.9
12.5°	1265.4	1137.9	984.2	913.9	882.9	859.1	868.6	848.3	843.6	844.8	841.2
15°	1358.3	1178.4	999.7	928.2	906.7	876.9	869.8	851.9	834.0	828.1	835.2
17.5°	1445.3	1228.4	1010.4	936.5	902.0	868.6	860.3	837.6	831.7	813.8	799.5
20°	1548.9	1288.0	1024.7	943.7	884.1	850.7	829.3	806.6	786.4	775.7	780.4
22.5°	1618.0	1319.0	1031.8	929.4	857.9	826.9	781.6	766.1	737.5	725.6	716.1
25°	1731.2	1357.1	1014.0	890.0	811.4	761.4	720.9	699.4	679.1	663.7	658.9
27.5°	1759.8	1385.7	972.3	823.3	737.5	685.1	650.6	624.3	611.2	587.4	582.6
30°	1843.2	1357.1	910.3	742.3	667.2	613.6	579.1	560.0	529.0	523.1	510.0
32.5°	1896.8	1365.4	831.7	663.7	586.2	538.6	515.9	496.9	488.5	459.9	452.8
35°	1986.2	1336.8	751.8	591.0	519.5	482.6	463.5	457.5	430.1	417.0	405.1
37.5°	2043.4	1320.2	672.0	508.8	446.8	431.3	437.3	412.3	378.9	353.9	345.5
40°	2143.5	1314.2	581.4	440.9	396.8	393.2	412.3	364.6	303.8	282.4	270.5
42.5°	2287.7	1273.7	511.1	380.1	357.4	372.9	376.5	303.8	269.3	251.4	243.1
45°	2425.9	1282.0	442.0	314.6	311.0	333.6	325.3	257.4	237.1	224.0	231.1
47.5°	2691.6	1323.7	374.1	262.1	280.0	301.4	252.6	230.0	210.9	201.4	202.6
50°	3102.6	1364.3	314.6	239.5	264.5	272.9	216.9	208.5	207.3	188.3	187.1
52.5°	3349.3	1348.8	303.8	268.1	283.6	272.9	235.9	230.0	220.4	212.1	202.6
55°	3741.3	1394.0	326.5	313.4	321.7	262.1	264.5	262.1	255.0	233.5	239.5
57.5°	4053.4	1423.8	356.3	350.3	345.5	272.9	276.4	277.6	272.9	263.3	271.7
60°	4482.4	1483.4	387.2	388.4	389.6	296.7	302.6	309.8	308.6	305.0	307.4
62.5°	4745.7	1456.0	421.8	440.9	434.9	345.5	344.3	349.1	349.1	355.1	358.6
65°	4706.4	1354.7	439.7	487.3	456.3	381.3	381.3	383.7	384.9	396.8	398.0
67°	4470.5	1173.6	430.1	494.5	456.3	395.6	395.6	398.0	389.6	420.6	411.1
67.5°	4360.8	1120.0	421.8	488.5	452.8	394.4	394.4	395.6	388.4	418.2	408.7
70°	3792.5	831.7	363.4	432.5	419.4	383.7	383.7	376.5	370.6	409.9	401.5
72.5°	3237.3	604.1	291.9	368.2	378.9	369.4	371.7	353.9	337.2	364.6	357.4
75°	2479.5	444.4	227.6	283.6	320.5	345.5	361.0	315.7	294.3	301.4	288.3
77.5°	1383.3	289.5	179.9	209.7	244.3	321.7	346.7	284.8	240.7	232.3	232.3
80°	469.4	169.2	132.3	156.1	168.0	284.8	324.1	231.1	189.4	181.1	175.1
82.5°	177.5	103.7	90.6	107.2	107.2	225.2	264.5	177.5	143.0	184.7	188.3
85°	81.0	62.0	59.6	62.0	62.0	138.2	187.1	115.6	128.7	110.8	97.7
87.5°	32.2	29.8	27.4	26.2	21.4	23.8	64.3	31.0	58.4	15.5	14.3
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)