

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: P476558

Luminaire Tested: **IFLD-S-SA3B-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476558
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

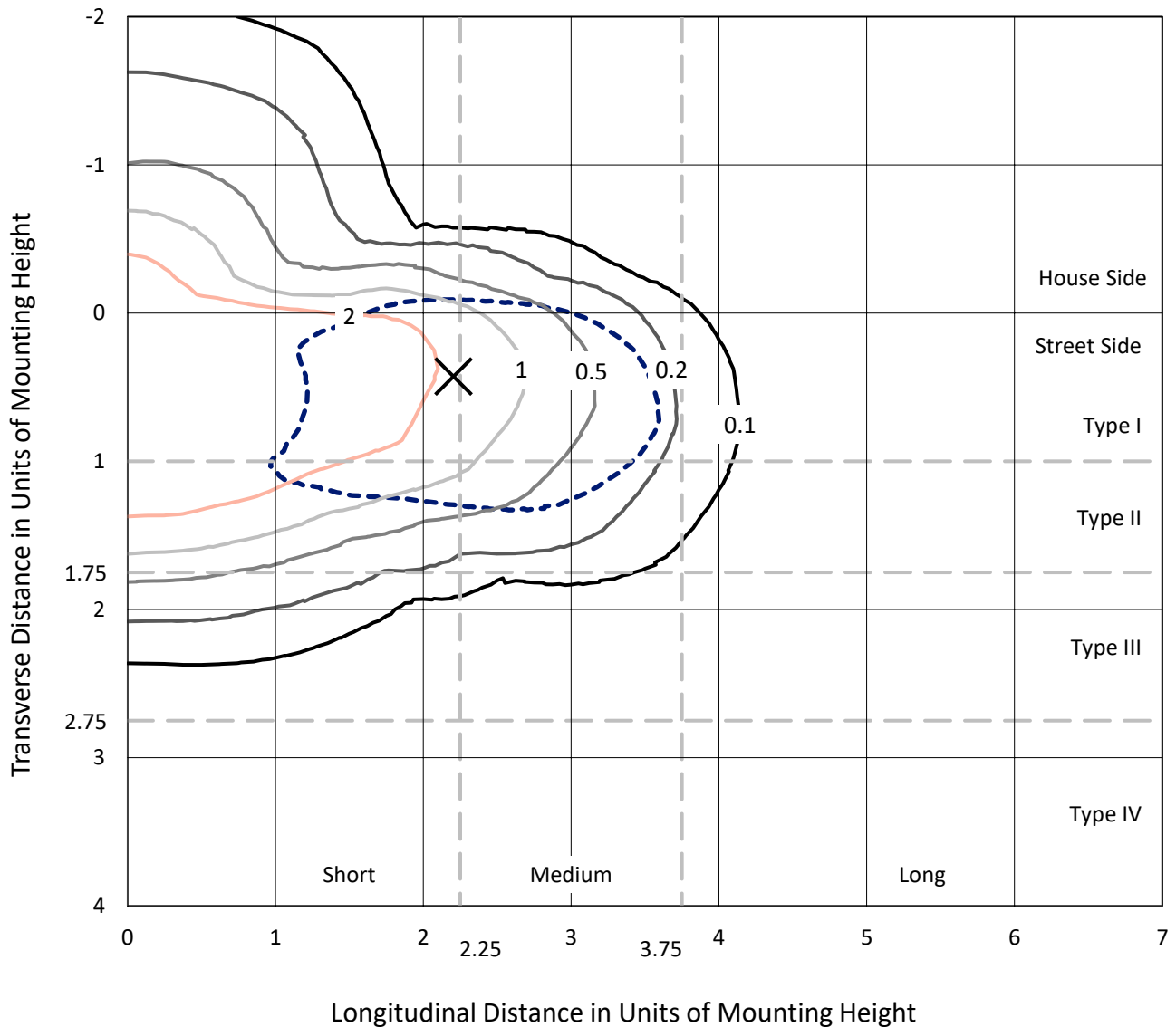
Lumens per Lamp: N/A
Luminaire Lumens: 16762.5 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

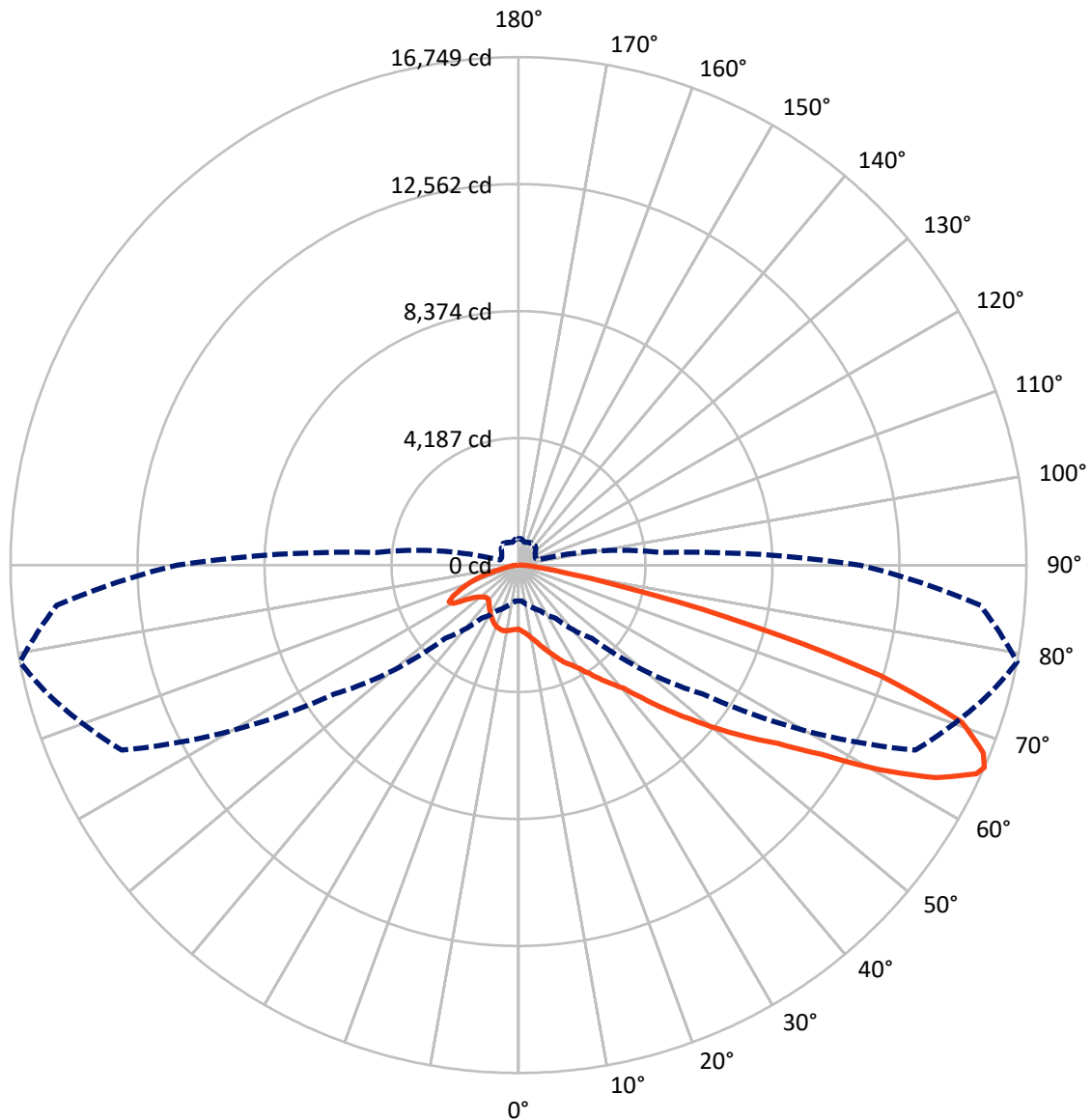
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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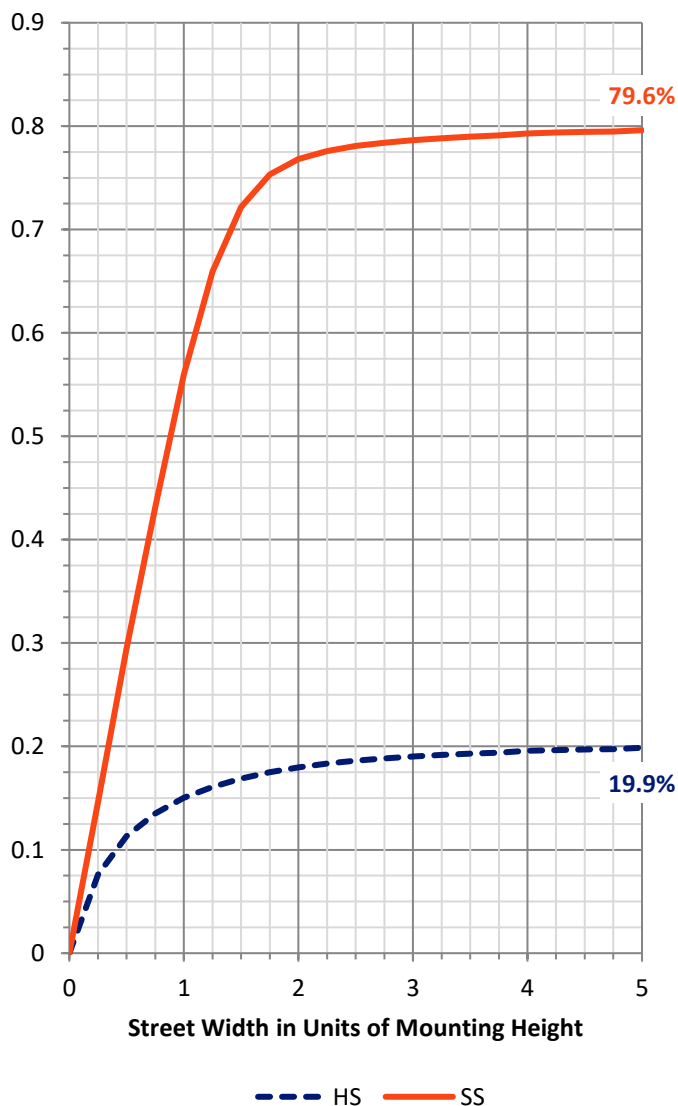
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3385.0	0.0	3385.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	13377.5	0.0	13377.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	16762.5	0.0	16762.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	1.2
10°-20°	642.7	3.8
20°-30°	1103.2	6.6
30°-40°	1704.2	10.2
40°-50°	2729.7	16.3
50°-60°	4075.7	24.3
60°-70°	4187.8	25.0
70°-80°	1856.4	11.1
80°-90°	254.7	1.5
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°	16762.5	100.0
0°-180°	16762.5	100.0

Coefficient of Utilization



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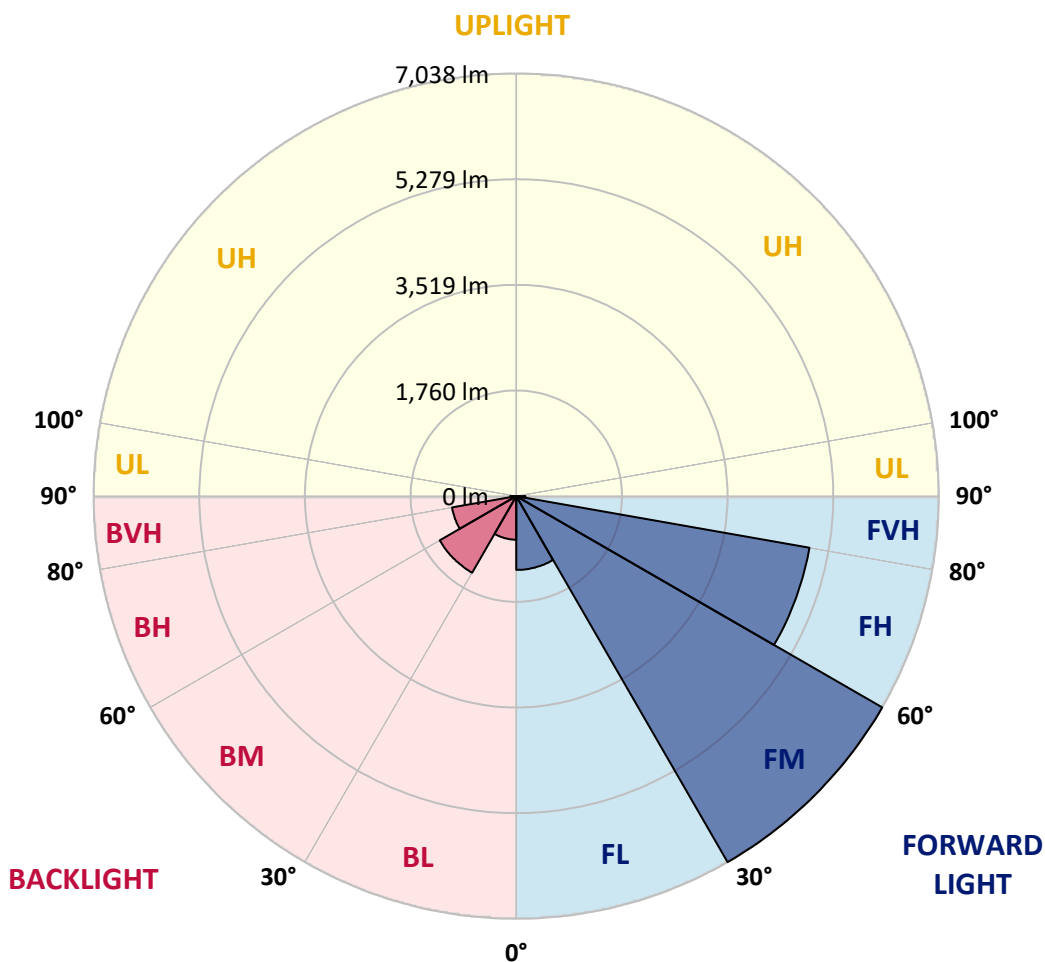
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.8	7.3			
FM (30°-60°)	7038.0	42.0			
FH (60°-80°)	4958.0	29.6			G2/5000
FVH (80°-90°)	152.8	0.9			G2/225
BL (0°-30°)	725.2	4.3	B2/1000		
BM (30°-60°)	1471.6	8.8	B2/2500		
BH (60°-80°)	1086.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	101.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6
2.5°	2251.2	2253.1	2253.1	2245.7	2247.5	2253.1	2232.8	2188.5	2188.5	2181.2	2168.3
5°	2389.5	2380.3	2367.4	2369.2	2361.9	2361.9	2339.7	2297.3	2260.5	2245.7	2207.0
7.5°	2408.0	2417.2	2415.3	2437.5	2448.5	2448.5	2459.6	2424.5	2369.2	2334.2	2295.5
10°	2444.8	2420.9	2419.0	2470.6	2487.2	2526.0	2570.2	2551.8	2505.7	2455.9	2404.3
12.5°	2467.0	2481.7	2481.7	2507.5	2546.2	2603.4	2680.8	2715.9	2644.0	2592.3	2513.0
15°	2500.1	2479.9	2538.9	2561.0	2634.7	2675.3	2785.9	2876.3	2828.3	2765.6	2640.3
17.5°	2514.9	2502.0	2535.2	2575.7	2701.1	2762.0	2896.5	3021.9	2981.4	2940.8	2811.7
20°	2590.5	2588.6	2603.4	2636.6	2726.9	2846.8	3014.5	3187.9	3202.6	3128.9	2953.7
22.5°	2774.9	2750.9	2750.9	2738.0	2776.7	2900.2	3127.0	3366.7	3433.1	3346.4	3114.1
25°	2944.5	2977.7	2957.4	2898.4	2883.6	2948.2	3208.1	3556.6	3645.1	3564.0	3331.7
27.5°	3162.1	3173.1	3208.1	3128.9	3027.5	3047.7	3296.6	3663.6	3846.1	3737.3	3455.2
30°	3475.5	3455.2	3447.8	3359.3	3226.6	3198.9	3398.1	3820.3	4109.7	3956.7	3600.9
32.5°	3687.5	3737.3	3735.5	3613.8	3453.4	3392.5	3523.4	3967.8	4391.8	4249.9	3870.1
35°	4107.9	4159.5	4119.0	3940.1	3752.1	3630.4	3704.1	4159.5	4714.5	4603.9	4098.7
37.5°	4644.4	4766.1	4679.5	4349.4	4083.9	3951.2	3954.9	4367.9	5044.5	4954.2	4343.9
40°	5015.0	5179.1	5059.3	4749.5	4467.4	4342.1	4292.3	4614.9	5439.1	5343.2	4727.4
42.5°	5474.1	5610.6	5547.9	5241.8	4911.8	4804.8	4705.3	5027.9	6042.0	5997.8	5219.7
45°	5975.6	6040.2	6019.9	5826.3	5459.4	5422.5	5203.1	5571.8	6751.9	6770.3	5835.5
47.5°	6442.1	6477.1	6515.9	6375.7	6147.1	6178.4	5776.5	6154.5	7441.4	7563.1	6521.4
50°	6561.9	6681.8	6772.1	6866.2	6915.9	7128.0	6408.9	6869.9	8234.2	8470.2	7284.7
52.5°	6440.3	6431.0	6705.8	7000.8	7498.6	7942.9	7270.0	7758.5	8934.9	9401.3	7983.5
55°	5887.1	5868.7	6311.2	6702.1	7673.7	8396.5	8499.7	8942.2	9781.2	10387.8	8929.3
57.5°	4919.2	4804.8	5287.9	5929.5	7293.9	8446.3	9735.1	10699.3	11082.8	11774.3	10373.0
60°	3305.9	3257.9	3720.7	4485.9	5922.2	7740.1	10474.4	12899.0	12917.4	13695.5	12613.2
62.5°	2035.5	2044.7	2341.6	2915.0	4146.6	6136.0	10155.4	14656.1	14659.7	15439.7	14456.9
65°	1331.2	1336.7	1576.4	1893.5	2590.5	4161.4	8398.3	14794.3	15871.1	16595.7	15301.4
66°	1185.5	1187.4	1393.9	1652.0	2146.1	3405.4	7417.5	14434.8	16144.0	16748.7	15290.3
67.5°	999.3	1023.3	1189.2	1388.4	1674.1	2446.7	5885.3	13394.9	16003.8	16534.9	14943.7
70°	781.8	794.7	925.6	1128.4	1255.6	1416.0	3497.6	10918.8	14648.7	15509.7	13682.6
72.5°	626.9	637.9	737.5	916.3	1019.6	932.9	1904.6	7922.6	11571.4	12489.6	10762.0
75°	529.2	531.0	578.9	720.9	838.9	700.6	1014.1	5085.1	7424.8	7852.6	6593.3
77.5°	427.8	435.1	468.3	549.4	674.8	551.3	604.8	2848.6	3728.1	3759.4	3047.7
80°	348.5	352.2	372.4	400.1	514.4	407.5	409.3	1390.2	1598.5	1561.7	1239.0
82.5°	274.7	278.4	302.4	296.8	378.0	291.3	254.4	669.3	735.7	720.9	569.7
85°	154.9	154.9	237.8	237.8	239.7	184.4	154.9	315.3	389.0	363.2	267.3
87.5°	49.8	51.6	71.9	75.6	119.8	83.0	75.6	118.0	184.4	162.3	95.9
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°	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6	2116.6
2.5°	2160.9	2131.4	2118.5	2076.1	2065.0	2037.4	2024.4	2007.9	2002.3	1978.4	2000.5
5°	2177.5	2168.3	2116.6	2063.2	2022.6	2004.2	1976.5	1939.6	1935.9	1902.8	1899.1
7.5°	2247.5	2216.2	2125.9	2068.7	1987.6	1941.5	1880.6	1862.2	1838.2	1827.2	1851.1
10°	2356.3	2277.0	2142.5	1998.6	1899.1	1843.8	1799.5	1786.6	1788.4	1781.1	1770.0
12.5°	2433.8	2358.2	2114.8	1939.6	1810.6	1757.1	1753.4	1766.3	1786.6	1777.4	1790.3
15°	2544.4	2402.4	2094.5	1841.9	1738.7	1723.9	1722.1	1760.8	1758.9	1758.9	1757.1
17.5°	2647.6	2446.7	2020.8	1757.1	1663.1	1674.1	1687.0	1685.2	1703.6	1711.0	1723.9
20°	2778.5	2498.3	1917.5	1672.3	1605.9	1602.2	1600.4	1602.2	1620.7	1631.7	1622.5
22.5°	2892.9	2509.4	1830.9	1591.2	1537.7	1522.9	1499.0	1522.9	1513.7	1517.4	1528.5
25°	2992.4	2511.2	1707.3	1530.3	1469.5	1436.3	1417.9	1416.0	1399.4	1397.6	1397.6
27.5°	3075.4	2448.5	1598.5	1445.5	1388.4	1357.0	1355.2	1334.9	1292.5	1264.8	1268.5
30°	3139.9	2400.6	1522.9	1371.8	1316.4	1310.9	1294.3	1248.2	1192.9	1157.9	1157.9
32.5°	3254.2	2304.7	1419.7	1296.2	1268.5	1261.1	1222.4	1181.9	1130.2	1097.0	1091.5
35°	3339.1	2216.2	1351.5	1231.6	1218.7	1204.0	1170.8	1126.5	1111.8	1104.4	1109.9
37.5°	3434.9	2116.6	1268.5	1176.3	1189.2	1161.6	1122.9	1102.6	1154.2	1141.3	1146.8
40°	3588.0	2046.6	1187.4	1143.1	1156.0	1124.7	1074.9	1067.5	1132.1	1086.0	1074.9
42.5°	3868.2	2044.7	1137.6	1093.4	1102.6	1078.6	1034.4	1030.7	1056.5	1001.2	984.6
45°	4216.7	2109.3	1100.7	1056.5	1049.1	1045.4	1030.7	1014.1	991.9	920.0	901.6
47.5°	4633.4	2214.4	1093.4	1001.2	1010.4	1041.7	1023.3	980.9	923.7	877.6	868.4
50°	5138.6	2431.9	1074.9	960.6	977.2	1027.0	1012.2	953.2	901.6	872.1	866.6
52.5°	5697.2	2706.6	1050.9	897.9	934.8	1014.1	1021.4	966.1	890.5	864.7	861.0
55°	6355.4	3112.3	1023.3	829.7	885.0	1001.2	1021.4	929.3	875.8	875.8	872.1
57.5°	7655.3	3842.4	966.1	767.0	840.8	977.2	991.9	931.1	877.6	877.6	870.3
60°	9561.7	4981.8	857.3	719.1	798.3	944.0	969.8	903.4	857.3	868.4	866.6
62.5°	11053.3	5328.5	765.2	673.0	755.9	883.2	940.3	873.9	833.4	873.9	877.6
65°	11372.3	4978.2	671.1	623.2	696.9	824.2	897.9	831.5	798.3	877.6	881.3
66°	11258.0	4705.3	637.9	608.4	671.1	794.7	872.1	816.8	779.9	873.9	875.8
67.5°	10749.1	4296.0	601.1	577.1	636.1	752.3	842.6	796.5	750.4	862.9	846.3
70°	9642.9	3643.3	538.4	521.8	586.3	682.2	774.4	744.9	704.3	794.7	765.2
72.5°	7426.7	2911.3	472.0	473.8	529.2	610.3	706.2	685.9	650.8	696.9	678.5
75°	4522.7	1860.4	411.2	414.8	460.9	542.1	641.6	626.9	584.5	610.3	601.1
77.5°	2004.2	921.9	346.6	354.0	390.9	477.5	558.7	534.7	490.4	496.0	492.3
80°	778.1	437.0	282.1	291.3	315.3	381.7	462.8	440.7	401.9	394.6	390.9
82.5°	374.3	243.4	217.6	221.3	230.5	304.2	398.3	370.6	319.0	285.8	285.8
85°	188.1	151.2	153.0	140.1	153.0	206.5	269.2	224.9	186.2	165.9	169.6
87.5°	75.6	75.6	75.6	64.5	68.2	97.7	125.4	84.8	77.4	46.1	46.1
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)