

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: P476870

Luminaire Tested: **IFLD-S-SA3B-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476870
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

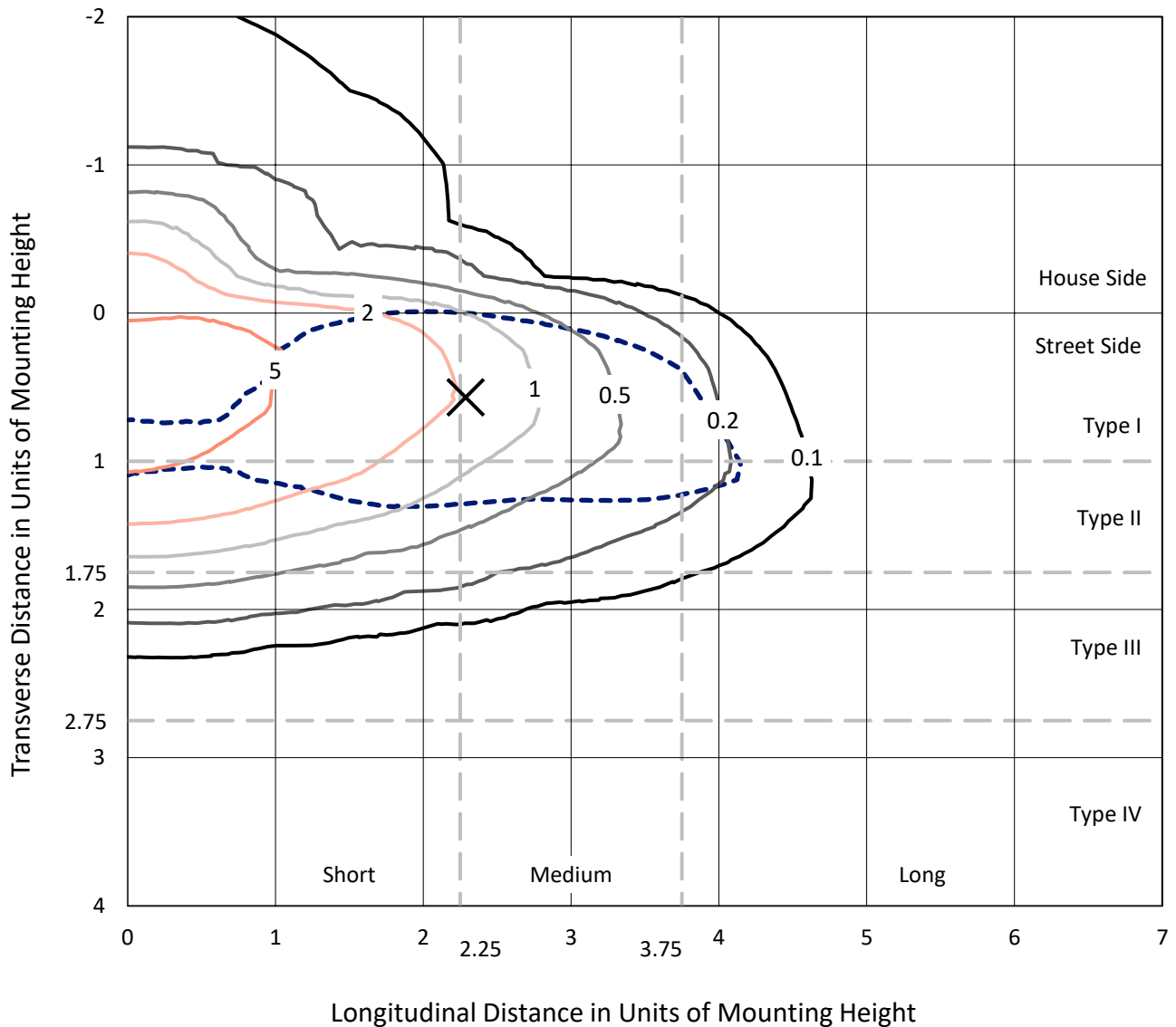
Lumens per Lamp: N/A
Luminaire Lumens: 14310.3 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

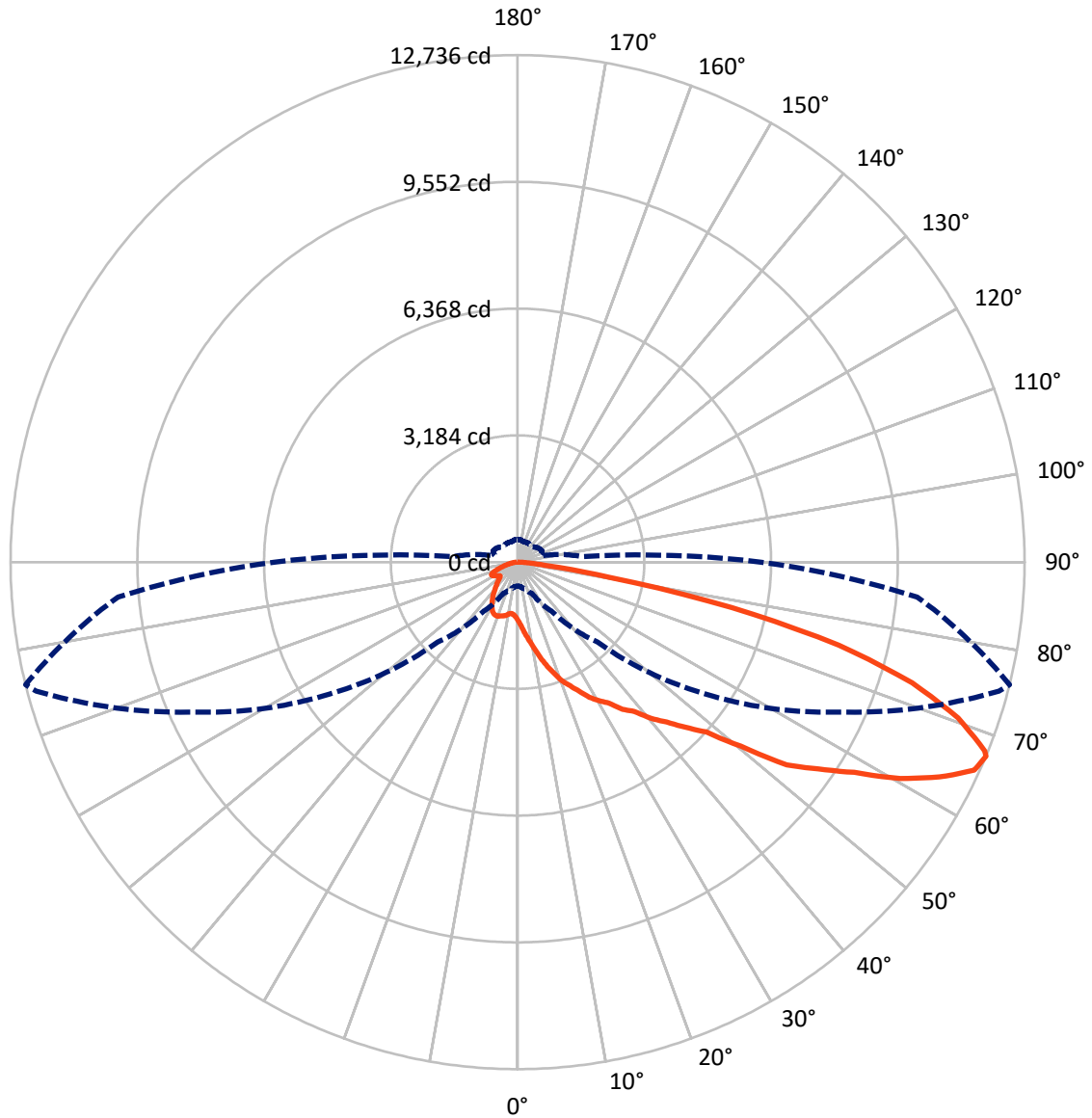
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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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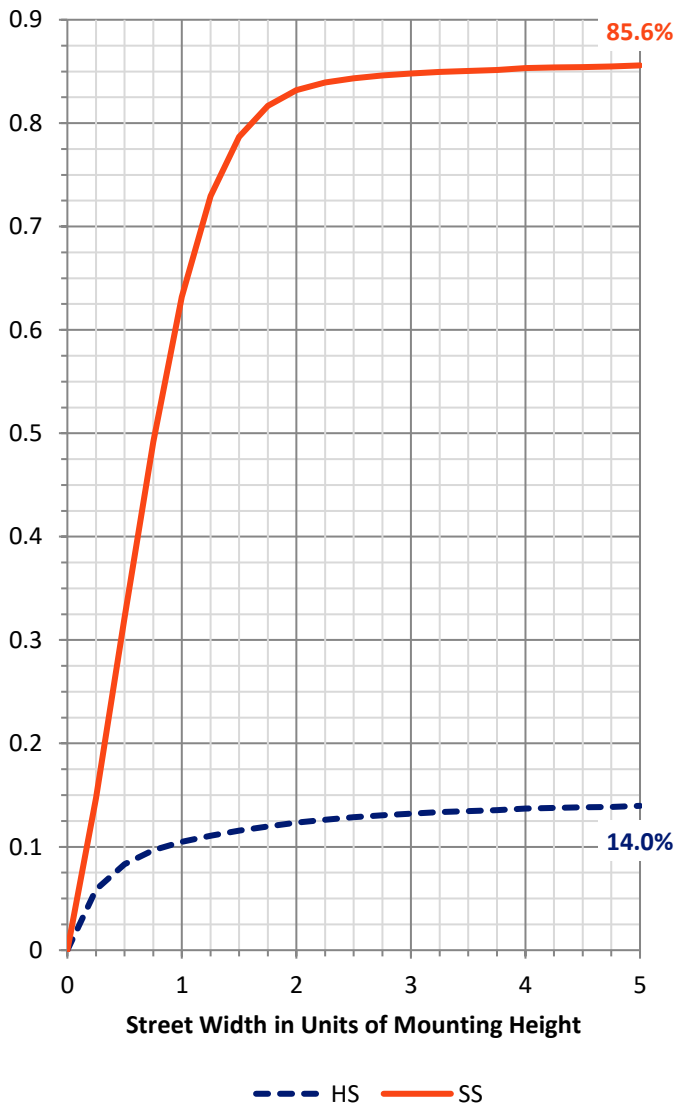
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2035.8	0.0	2035.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	12274.5	0.0	12274.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	14310.3	0.0	14310.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	1.2
10°-20°	636.2	4.4
20°-30°	1182.8	8.3
30°-40°	1875.0	13.1
40°-50°	2593.3	18.1
50°-60°	3190.0	22.3
60°-70°	2968.4	20.7
70°-80°	1489.5	10.4
80°-90°	205.4	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°	14310.3	100.0
0°-180°	14310.3	100.0



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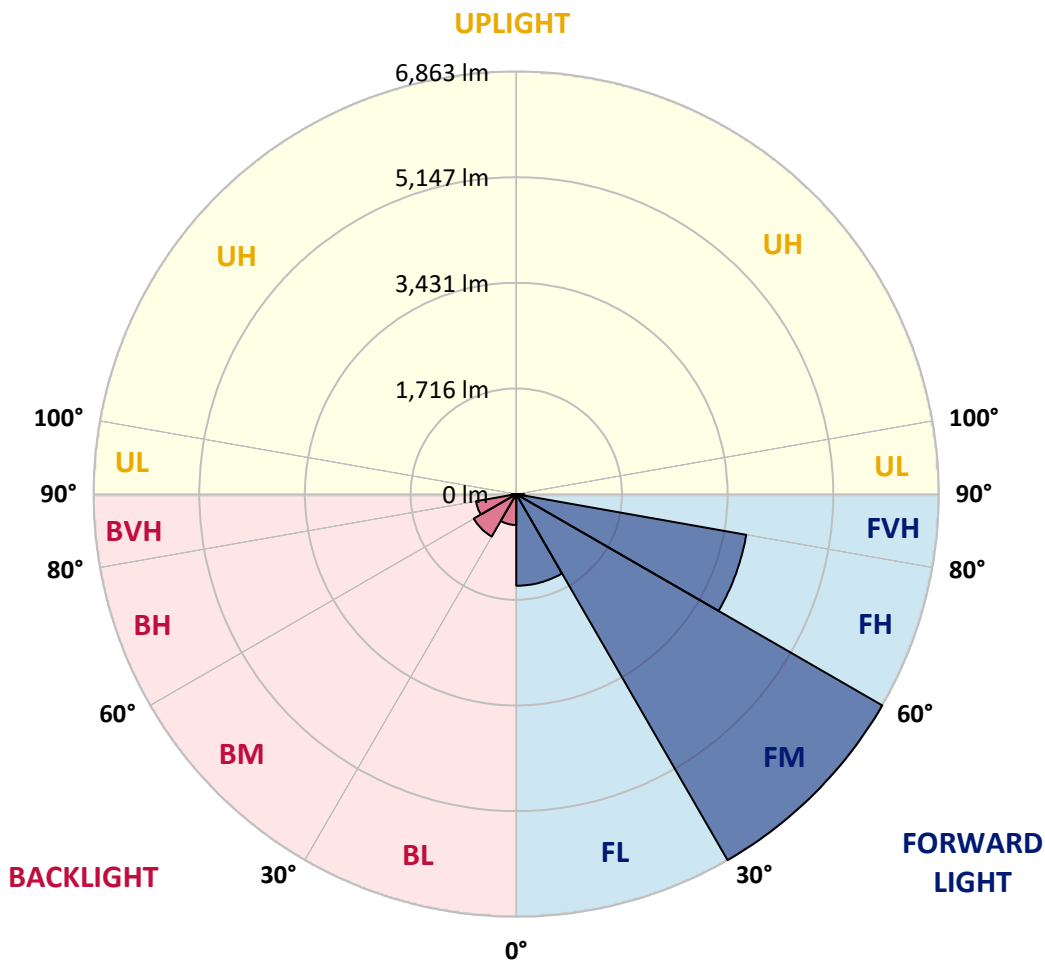
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.3	10.4			
FM (30°-60°)	6862.8	48.0			
FH (60°-80°)	3793.6	26.5			G2/5000
FVH (80°-90°)	130.9	0.9			G2/225
BL (0°-30°)	501.3	3.5	B2/1000		
BM (30°-60°)	795.6	5.6	B1/1000		
BH (60°-80°)	664.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	74.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4
2.5°	2032.0	2007.5	1983.0	1930.8	1912.9	1864.0	1774.3	1674.8	1593.3	1581.9	1524.8
5°	2521.2	2485.3	2477.2	2447.8	2354.9	2260.3	2113.5	1953.7	1754.7	1769.4	1573.7
7.5°	2888.1	2866.9	2822.9	2795.2	2739.7	2614.1	2462.5	2250.5	1997.7	1948.8	1683.0
10°	3165.4	3136.0	3134.4	3109.9	3080.6	2951.7	2835.9	2550.5	2226.0	2159.2	1816.7
12.5°	3305.6	3300.7	3387.1	3387.1	3375.7	3321.9	3123.0	2862.0	2442.9	2420.1	1971.6
15°	3457.3	3416.5	3491.5	3548.6	3577.9	3605.7	3441.0	3165.4	2720.1	2676.1	2138.0
17.5°	3457.3	3454.0	3529.0	3623.6	3776.9	3812.8	3723.1	3444.2	2950.1	2917.5	2320.6
20°	3398.6	3445.8	3498.0	3625.2	3791.6	3936.7	3962.8	3729.6	3204.5	3178.4	2527.7
22.5°	3672.5	3626.9	3680.7	3729.6	3858.4	4078.6	4150.3	3980.7	3471.9	3372.5	2715.3
25°	4132.4	4101.4	4062.3	3990.5	4044.3	4140.6	4249.8	4166.7	3700.3	3589.4	2896.3
27.5°	4580.9	4582.5	4497.7	4341.1	4225.4	4244.9	4373.8	4329.7	3892.7	3843.8	3020.2
30°	5218.5	5179.4	5084.8	4872.8	4646.1	4460.2	4439.0	4481.4	4137.3	4042.7	3198.0
32.5°	5696.3	5704.5	5570.8	5265.8	4956.0	4804.3	4618.4	4636.3	4292.2	4222.1	3339.8
35°	6082.8	6073.0	5978.5	5725.7	5358.8	5176.1	4925.0	4822.2	4652.6	4541.7	3556.7
37.5°	6500.3	6420.4	6267.1	5981.7	5746.9	5494.1	5249.5	5017.9	4892.4	4758.6	3742.7
40°	6668.3	6668.3	6462.8	6332.3	6053.5	5862.7	5704.5	5275.6	5184.3	5158.2	3980.7
42.5°	6549.2	6622.6	6537.8	6389.4	6275.3	6033.9	5991.5	5543.0	5544.7	5492.5	4266.1
45°	6537.8	6436.7	6366.6	6404.1	6350.3	6337.2	6444.9	5913.2	5923.0	5916.5	4649.4
47.5°	6210.0	6164.4	6268.7	6330.7	6374.7	6577.0	6886.8	6355.2	6425.3	6376.4	5091.3
50°	5883.9	5875.7	5941.0	6166.0	6356.8	6689.5	7307.5	7036.8	7266.8	7263.5	5892.0
52.5°	4990.2	5076.6	5332.7	5808.9	6280.2	6842.8	7625.6	7907.7	8346.4	8465.4	6555.8
55°	4135.7	4090.0	4468.4	5159.8	5945.8	6903.1	7981.1	8431.2	9076.9	9163.4	7237.4
57.5°	3217.5	3302.3	3600.8	4264.5	5254.4	6604.7	8242.0	8948.1	9902.1	9969.0	8028.4
60°	2400.5	2411.9	2739.7	3274.6	4334.6	5931.2	8326.8	9478.1	10848.0	11038.8	8856.8
62.5°	1510.1	1578.6	1828.1	2354.9	3263.2	4988.6	7946.8	9799.4	11839.5	11890.1	9691.8
65°	813.8	857.8	1045.3	1376.4	2279.8	3773.6	6939.0	9607.0	12305.9	12606.0	10063.6
67°	601.8	609.9	696.3	879.0	1524.8	2840.8	5786.0	8910.6	12517.9	12736.4	10078.3
67.5°	564.3	575.7	644.2	789.3	1351.9	2615.8	5484.3	8662.7	12423.3	12658.2	9964.1
70°	482.7	486.0	502.3	543.1	758.3	1573.7	3734.5	7098.8	11515.0	11740.0	9163.4
72.5°	428.9	432.2	438.7	446.8	513.7	910.0	2271.7	5463.1	10008.1	10366.9	7906.0
75°	376.7	388.1	391.4	384.9	437.1	592.0	1208.4	4015.0	8163.7	8338.2	6148.1
77.5°	319.6	324.5	331.0	337.6	389.8	441.9	580.6	2710.4	5603.4	5497.4	3325.2
80°	269.1	270.7	275.6	280.5	337.6	337.6	329.4	1464.4	2447.8	2340.2	1123.6
82.5°	192.4	203.8	215.3	228.3	280.5	226.7	215.3	652.3	774.6	737.1	380.0
85°	75.0	91.3	141.9	156.6	177.8	122.3	143.5	282.1	322.9	319.6	141.9
87.5°	13.0	14.7	39.1	60.3	65.2	42.4	68.5	101.1	120.7	130.5	52.2
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°	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4
2.5°	1477.5	1426.9	1366.6	1306.3	1267.1	1205.2	1200.3	1162.7	1157.9	1144.8	1151.3
5°	1488.9	1428.6	1306.3	1210.0	1166.0	1130.1	1138.3	1122.0	1117.1	1108.9	1095.9
7.5°	1578.6	1459.6	1276.9	1193.7	1161.1	1144.8	1144.8	1125.2	1110.6	1120.3	1130.1
10°	1637.3	1474.2	1299.7	1216.6	1190.5	1154.6	1167.6	1143.2	1151.3	1131.8	1131.8
12.5°	1731.9	1557.4	1347.0	1250.8	1208.4	1175.8	1188.8	1161.1	1154.6	1156.2	1151.3
15°	1859.1	1612.8	1368.2	1270.4	1241.0	1200.3	1190.5	1166.0	1141.5	1133.4	1143.2
17.5°	1978.1	1681.3	1382.9	1281.8	1234.5	1188.8	1177.4	1146.4	1138.3	1113.8	1094.3
20°	2120.0	1762.9	1402.5	1291.6	1210.0	1164.4	1135.0	1104.0	1076.3	1061.6	1068.2
22.5°	2214.6	1805.3	1412.3	1272.0	1174.2	1131.8	1069.8	1048.6	1009.5	993.1	980.1
25°	2369.5	1857.5	1387.8	1218.2	1110.6	1042.1	986.6	957.3	929.5	908.3	901.8
27.5°	2408.7	1896.6	1330.7	1126.9	1009.5	937.7	890.4	854.5	836.6	804.0	797.5
30°	2522.8	1857.5	1245.9	1016.0	913.2	839.9	792.6	766.5	724.1	715.9	698.0
32.5°	2596.2	1868.9	1138.3	908.3	802.3	737.1	706.1	680.0	668.6	629.5	619.7
35°	2718.5	1829.7	1029.0	808.9	711.0	660.5	634.4	626.2	588.7	570.8	554.5
37.5°	2796.8	1806.9	919.8	696.3	611.5	590.3	598.5	564.3	518.6	484.3	472.9
40°	2933.8	1798.8	795.8	603.4	543.1	538.2	564.3	499.0	415.9	386.5	370.2
42.5°	3131.1	1743.3	699.6	520.2	489.2	510.4	515.3	415.9	368.6	344.1	332.7
45°	3320.3	1754.7	605.0	430.5	425.6	456.6	445.2	352.2	324.5	306.6	316.4
47.5°	3683.9	1811.8	512.1	358.8	383.2	412.6	345.7	314.7	288.6	275.6	277.2
50°	4246.6	1867.2	430.5	327.8	362.0	373.4	296.8	285.4	283.8	257.7	256.0
52.5°	4584.1	1846.0	415.9	366.9	388.1	373.4	322.9	314.7	301.7	290.3	277.2
55°	5120.7	1908.0	446.8	428.9	440.3	358.8	362.0	358.8	349.0	319.6	327.8
57.5°	5547.9	1948.8	487.6	479.5	472.9	373.4	378.3	380.0	373.4	360.4	371.8
60°	6135.0	2030.3	530.0	531.6	533.3	406.1	414.2	424.0	422.4	417.5	420.7
62.5°	6495.4	1992.8	577.3	603.4	595.2	472.9	471.3	477.8	477.8	486.0	490.9
65°	6441.6	1854.2	601.8	667.0	624.6	521.9	521.9	525.1	526.7	543.1	544.7
67°	6118.7	1606.3	588.7	676.8	624.6	541.4	541.4	544.7	533.3	575.7	562.6
67.5°	5968.7	1532.9	577.3	668.6	619.7	539.8	539.8	541.4	531.6	572.4	559.4
70°	5190.8	1138.3	497.4	592.0	574.0	525.1	525.1	515.3	507.2	561.0	549.6
72.5°	4430.8	826.8	399.5	503.9	518.6	505.5	508.8	484.3	461.5	499.0	489.2
75°	3393.7	608.3	311.5	388.1	438.7	472.9	494.1	432.2	402.8	412.6	394.6
77.5°	1893.3	396.3	246.2	287.0	334.3	440.3	474.6	389.8	329.4	318.0	318.0
80°	642.5	231.6	181.0	213.6	229.9	389.8	443.6	316.4	259.3	247.9	239.7
82.5°	243.0	141.9	123.9	146.8	146.8	308.2	362.0	243.0	195.7	252.8	257.7
85°	110.9	84.8	81.5	84.8	84.8	189.2	256.0	158.2	176.1	151.7	133.7
87.5°	44.0	40.8	37.5	35.9	29.4	32.6	88.1	42.4	79.9	21.2	19.6
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)