

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: P477142

Luminaire Tested: **IFLD-S-SA3A-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477142
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

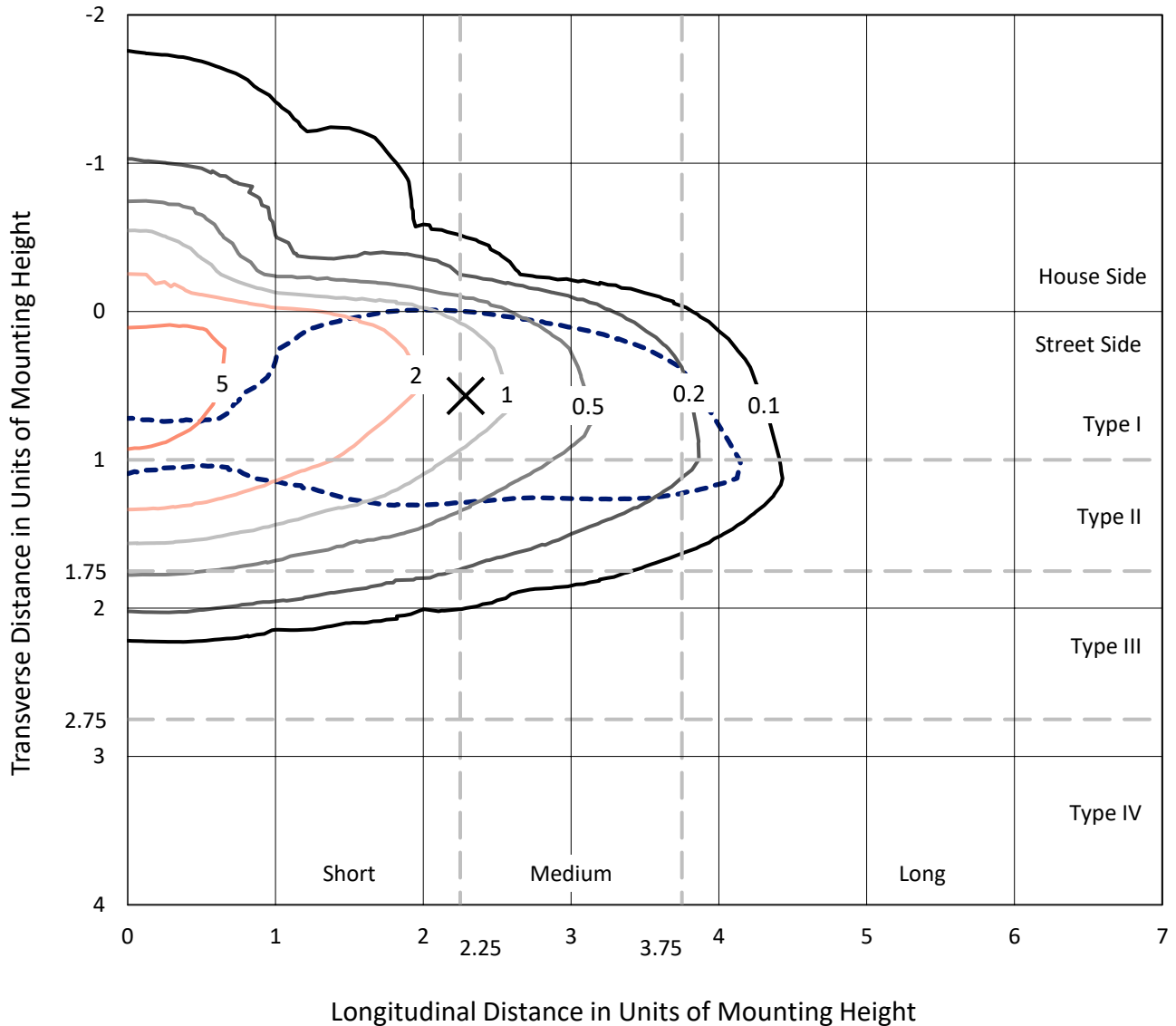
Lumens per Lamp: N/A
Luminaire Lumens: 10994 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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: P477142
 CATALOG NUMBER: IFLD-S-SA3A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

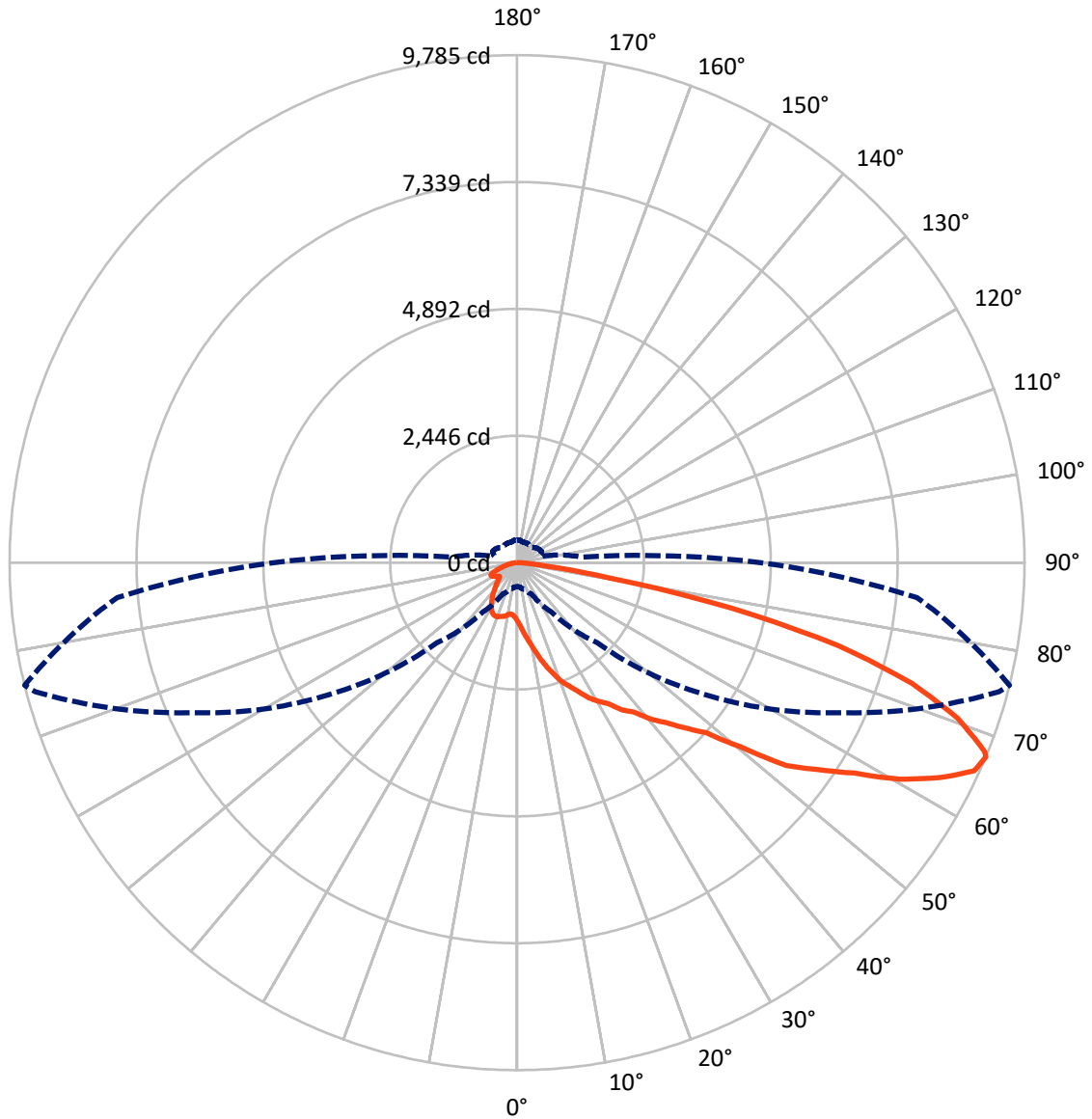
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P477142
CATALOG NUMBER: IFLD-S-SA3A-830-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477142
 CATALOG NUMBER: IFLD-S-SA3A-830-U-T2R

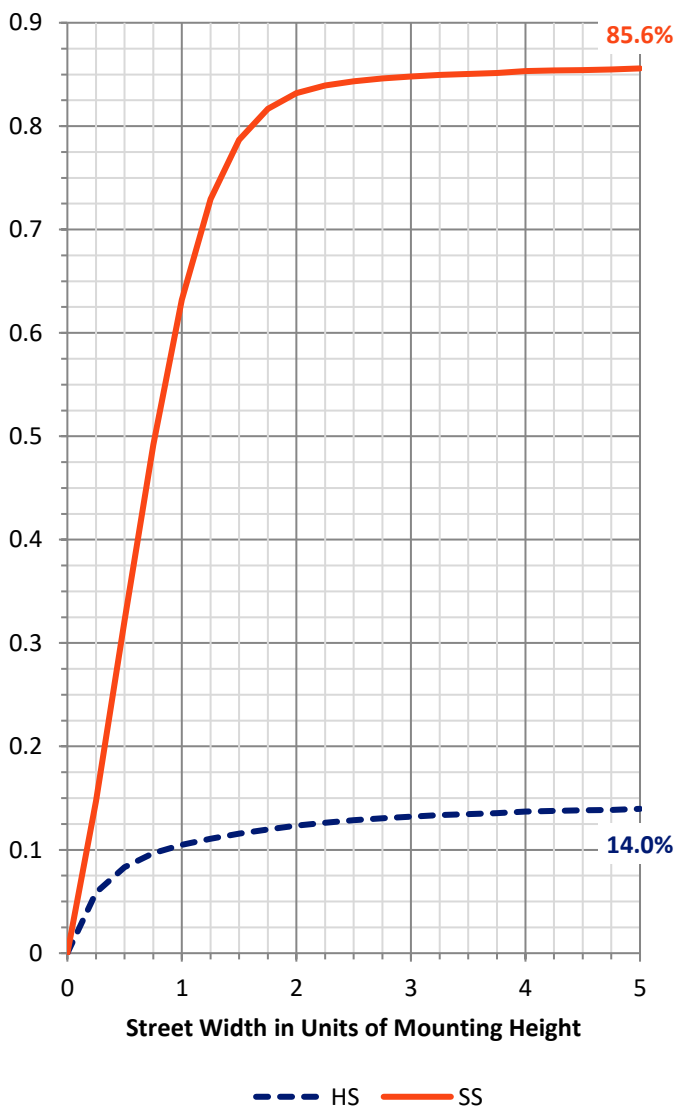
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.0	0.0	1564.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9429.9	0.0	9429.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	10994.0	0.0	10994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.2
10°-20°	488.8	4.4
20°-30°	908.7	8.3
30°-40°	1440.5	13.1
40°-50°	1992.3	18.1
50°-60°	2450.7	22.3
60°-70°	2280.5	20.7
70°-80°	1144.3	10.4
80°-90°	157.8	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°	10994.0	100.0
0°-180°	10994.0	100.0

Coefficient of Utilization



REPORT NUMBER: P477142

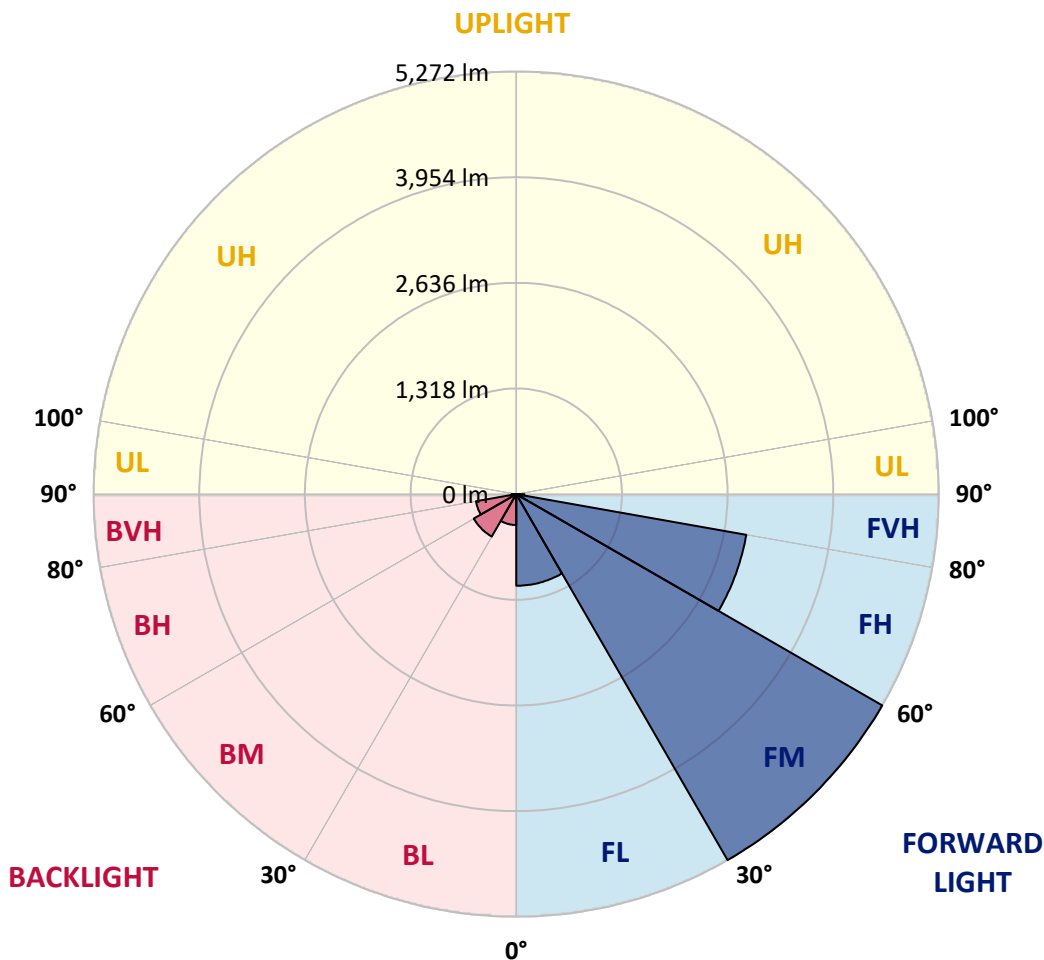
CATALOG NUMBER: IFLD-S-SA3A-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1142.6	10.4			
FM (30°-60°)	5272.4	48.0			
FH (60°-80°)	2914.4	26.5			G2/5000
FVH (80°-90°)	100.5	0.9			G2/225
BL (0°-30°)	385.2	3.5	B1/500		
BM (30°-60°)	611.2	5.6	B1/1000		
BH (60°-80°)	510.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	57.3	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





REPORT NUMBER: P477142
 CATALOG NUMBER: IFLD-S-SA3A-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1
2.5°	1561.1	1542.3	1523.5	1483.4	1469.6	1432.0	1363.1	1286.7	1224.0	1215.3	1171.4
5°	1936.9	1909.4	1903.1	1880.5	1809.1	1736.5	1623.7	1500.9	1348.1	1359.3	1209.0
7.5°	2218.8	2202.5	2168.7	2147.4	2104.8	2008.3	1891.8	1728.9	1534.7	1497.2	1292.9
10°	2431.8	2409.2	2408.0	2389.2	2366.6	2267.7	2178.7	1959.5	1710.1	1658.8	1395.7
12.5°	2539.5	2535.8	2602.2	2602.2	2593.4	2552.1	2399.2	2198.8	1876.8	1859.2	1514.7
15°	2656.1	2624.7	2682.4	2726.2	2748.8	2770.1	2643.5	2431.8	2089.8	2055.9	1642.5
17.5°	2656.1	2653.5	2711.2	2783.8	2901.6	2929.2	2860.3	2646.0	2266.4	2241.4	1782.8
20°	2611.0	2647.3	2687.4	2785.1	2912.9	3024.4	3044.4	2865.3	2461.9	2441.8	1941.9
22.5°	2821.4	2786.4	2827.7	2865.3	2964.3	3133.4	3188.5	3058.2	2667.3	2590.9	2086.0
25°	3174.7	3150.9	3120.9	3065.7	3107.1	3181.0	3264.9	3201.0	2842.7	2757.5	2225.1
27.5°	3519.3	3520.5	3455.4	3335.1	3246.1	3261.2	3360.2	3326.3	2990.6	2953.0	2320.3
30°	4009.1	3979.1	3906.4	3743.5	3569.4	3426.6	3410.3	3442.8	3178.5	3105.8	2456.9
32.5°	4376.2	4382.5	4279.8	4045.5	3807.4	3690.9	3548.1	3561.9	3297.5	3243.6	2565.8
35°	4673.2	4665.6	4593.0	4398.8	4116.9	3976.6	3783.6	3704.7	3574.4	3489.2	2732.5
37.5°	4993.9	4932.5	4814.7	4595.5	4415.1	4220.9	4032.9	3855.0	3758.6	3655.8	2875.3
40°	5122.9	5122.9	4965.1	4864.8	4650.6	4504.0	4382.5	4053.0	3982.8	3962.8	3058.2
42.5°	5031.5	5087.8	5022.7	4908.7	4821.0	4635.6	4603.0	4258.5	4259.7	4219.6	3277.5
45°	5022.7	4945.0	4891.1	4920.0	4878.6	4868.6	4951.3	4542.9	4550.4	4545.4	3571.9
47.5°	4770.9	4735.8	4816.0	4863.6	4897.4	5052.8	5290.8	4882.4	4936.3	4898.7	3911.4
50°	4520.3	4514.0	4564.2	4737.0	4883.6	5139.2	5614.0	5406.1	5582.7	5580.2	4526.6
52.5°	3833.7	3900.1	4096.8	4462.7	4824.7	5257.0	5858.4	6075.1	6412.1	6503.6	5036.5
55°	3177.2	3142.2	3432.8	3964.0	4567.9	5303.3	6131.5	6477.3	6973.4	7039.8	5560.2
57.5°	2471.9	2537.0	2766.3	3276.2	4036.7	5074.1	6331.9	6874.4	7607.3	7658.7	6167.8
60°	1844.2	1853.0	2104.8	2515.7	3330.1	4556.6	6397.1	7281.6	8334.0	8480.6	6804.3
62.5°	1160.1	1212.8	1404.5	1809.1	2507.0	3832.5	6105.2	7528.4	9095.7	9134.6	7445.7
65°	625.2	659.0	803.1	1057.4	1751.5	2899.1	5330.9	7380.6	9454.0	9684.6	7731.4
67°	462.3	468.6	535.0	675.3	1171.4	2182.5	4445.1	6845.6	9616.9	9784.8	7742.6
67.5°	433.5	442.3	494.9	606.4	1038.6	2009.6	4213.4	6655.2	9544.3	9724.7	7654.9
70°	370.8	373.4	385.9	417.2	582.6	1209.0	2869.0	5453.7	8846.4	9019.3	7039.8
72.5°	329.5	332.0	337.0	343.3	394.6	699.1	1745.2	4197.1	7688.8	7964.4	6073.8
75°	289.4	298.2	300.7	295.7	335.8	454.8	928.4	3084.5	6271.8	6405.9	4723.3
77.5°	245.6	249.3	254.3	259.3	299.4	339.5	446.0	2082.2	4304.8	4223.4	2554.6
80°	206.7	208.0	211.7	215.5	259.3	259.3	253.1	1125.1	1880.5	1797.8	863.2
82.5°	147.8	156.6	165.4	175.4	215.5	174.1	165.4	501.1	595.1	566.3	291.9
85°	57.6	70.2	109.0	120.3	136.6	94.0	110.3	216.7	248.1	245.6	109.0
87.5°	10.0	11.3	30.1	46.4	50.1	32.6	52.6	77.7	92.7	100.2	40.1
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: P477142
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1	1125.1
2.5°	1135.1	1096.2	1049.9	1003.5	973.5	925.9	922.1	893.3	889.5	879.5	884.5
5°	1143.9	1097.5	1003.5	929.6	895.8	868.2	874.5	862.0	858.2	851.9	841.9
7.5°	1212.8	1121.3	981.0	917.1	892.0	879.5	879.5	864.5	853.2	860.7	868.2
10°	1257.9	1132.6	998.5	934.6	914.6	887.0	897.0	878.3	884.5	869.5	869.5
12.5°	1330.5	1196.5	1034.9	960.9	928.4	903.3	913.3	892.0	887.0	888.3	884.5
15°	1428.3	1239.1	1051.1	976.0	953.4	922.1	914.6	895.8	877.0	870.7	878.3
17.5°	1519.7	1291.7	1062.4	984.7	948.4	913.3	904.6	880.8	874.5	855.7	840.7
20°	1628.7	1354.3	1077.5	992.3	929.6	894.5	872.0	848.2	826.9	815.6	820.6
22.5°	1701.4	1386.9	1085.0	977.2	902.1	869.5	821.9	805.6	775.5	763.0	753.0
25°	1820.4	1427.0	1066.2	935.9	853.2	800.6	758.0	735.4	714.1	697.8	692.8
27.5°	1850.5	1457.1	1022.3	865.7	775.5	720.4	684.1	656.5	642.7	617.7	612.6
30°	1938.2	1427.0	957.2	780.5	701.6	645.2	608.9	588.8	556.3	550.0	536.2
32.5°	1994.5	1435.8	874.5	697.8	616.4	566.3	542.5	522.4	513.7	483.6	476.1
35°	2088.5	1405.7	790.6	621.4	546.2	507.4	487.4	481.1	452.3	438.5	426.0
37.5°	2148.6	1388.2	706.6	535.0	469.8	453.5	459.8	433.5	398.4	372.1	363.3
40°	2253.9	1381.9	611.4	463.6	417.2	413.4	433.5	383.4	319.5	296.9	284.4
42.5°	2405.5	1339.3	537.5	399.7	375.9	392.1	395.9	319.5	283.1	264.4	255.6
45°	2550.8	1348.1	464.8	330.8	327.0	350.8	342.0	270.6	249.3	235.5	243.1
47.5°	2830.2	1391.9	393.4	275.6	294.4	317.0	265.6	241.8	221.8	211.7	213.0
50°	3262.4	1434.5	330.8	251.8	278.1	286.9	228.0	219.2	218.0	198.0	196.7
52.5°	3521.8	1418.2	319.5	281.9	298.2	286.9	248.1	241.8	231.8	223.0	213.0
55°	3934.0	1465.8	343.3	329.5	338.3	275.6	278.1	275.6	268.1	245.6	251.8
57.5°	4262.2	1497.2	374.6	368.3	363.3	286.9	290.7	291.9	286.9	276.9	285.7
60°	4713.2	1559.8	407.2	408.4	409.7	312.0	318.2	325.7	324.5	320.7	323.2
62.5°	4990.1	1531.0	443.5	463.6	457.3	363.3	362.1	367.1	367.1	373.4	377.1
65°	4948.8	1424.5	462.3	512.4	479.8	400.9	400.9	403.4	404.7	417.2	418.5
67°	4700.7	1234.1	452.3	519.9	479.8	415.9	415.9	418.5	409.7	442.3	432.2
67.5°	4585.5	1177.7	443.5	513.7	476.1	414.7	414.7	415.9	408.4	439.8	429.7
70°	3987.8	874.5	382.1	454.8	441.0	403.4	403.4	395.9	389.6	431.0	422.2
72.5°	3404.0	635.2	306.9	387.1	398.4	388.4	390.9	372.1	354.6	383.4	375.9
75°	2607.2	467.3	239.3	298.2	337.0	363.3	379.6	332.0	309.5	317.0	303.2
77.5°	1454.6	304.4	189.2	220.5	256.8	338.3	364.6	299.4	253.1	244.3	244.3
80°	493.6	177.9	139.1	164.1	176.7	299.4	340.8	243.1	199.2	190.4	184.2
82.5°	186.7	109.0	95.2	112.8	112.8	236.8	278.1	186.7	150.3	194.2	198.0
85°	85.2	65.1	62.6	65.1	65.1	145.3	196.7	121.5	135.3	116.5	102.7
87.5°	33.8	31.3	28.8	27.6	22.6	25.1	67.7	32.6	61.4	16.3	15.0
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)