

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: P477100

Luminaire Tested: **IFLD-S-SA2C-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477100
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

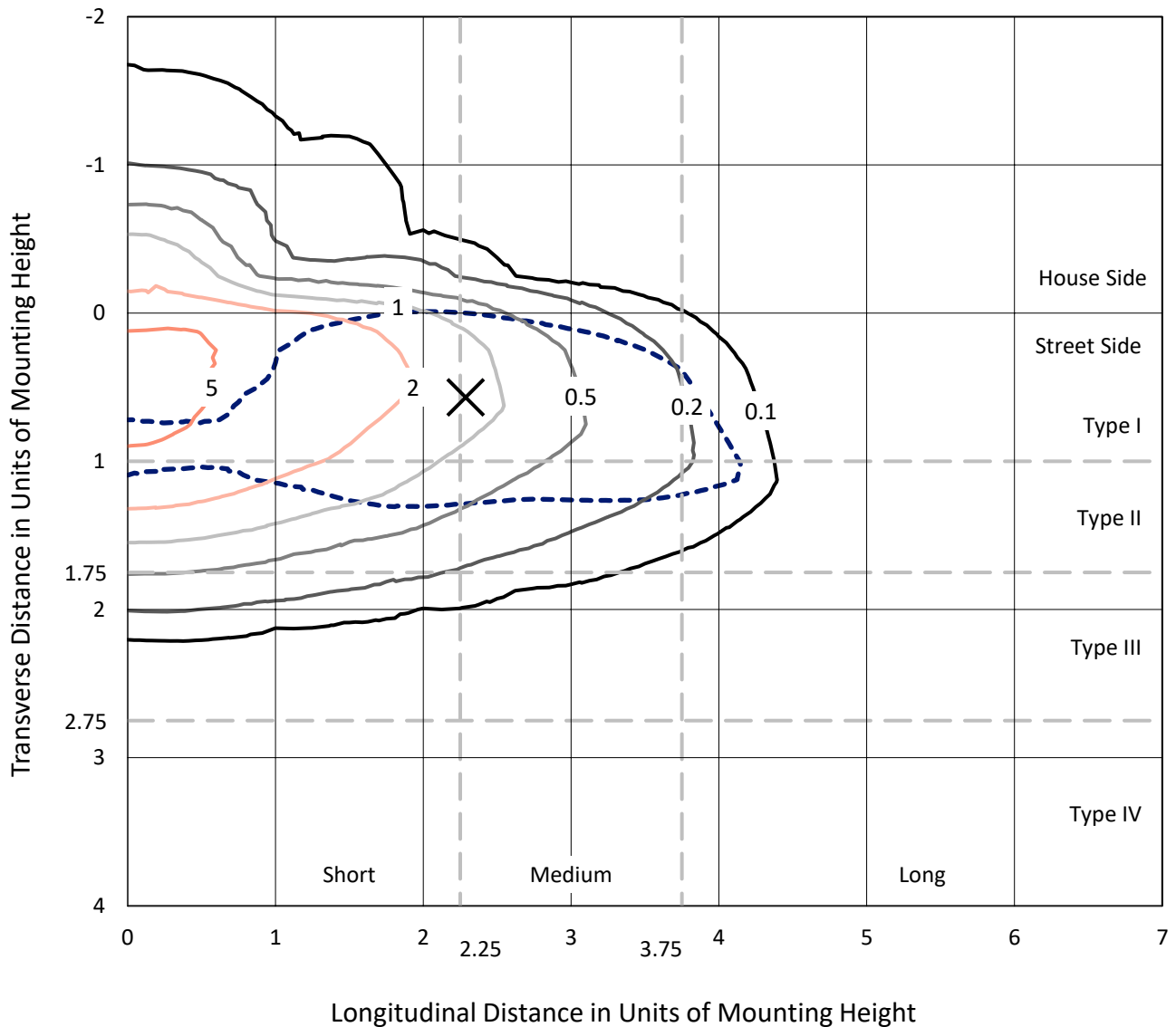
Lumens per Lamp: N/A
Luminaire Lumens: 10507 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

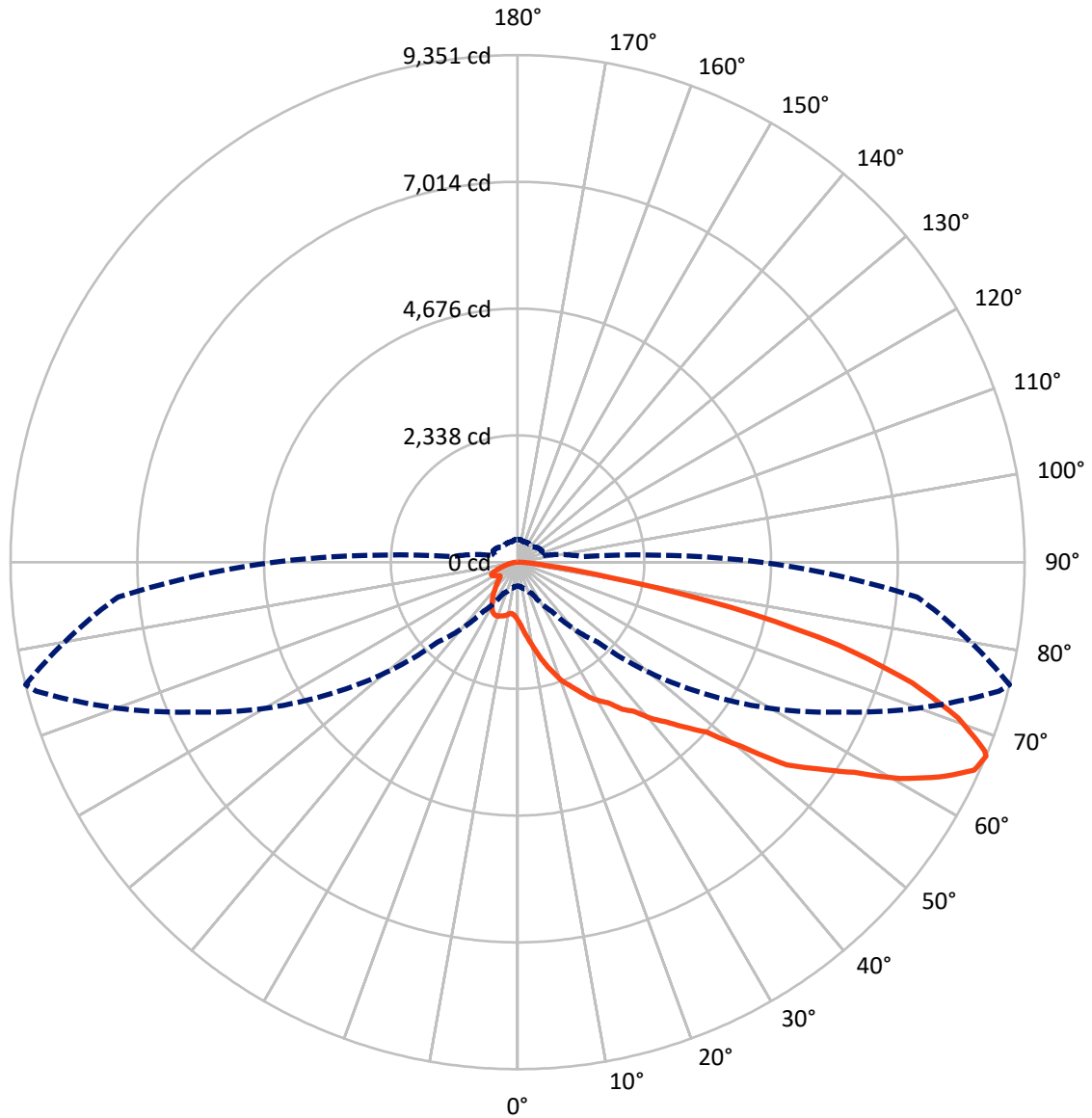
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 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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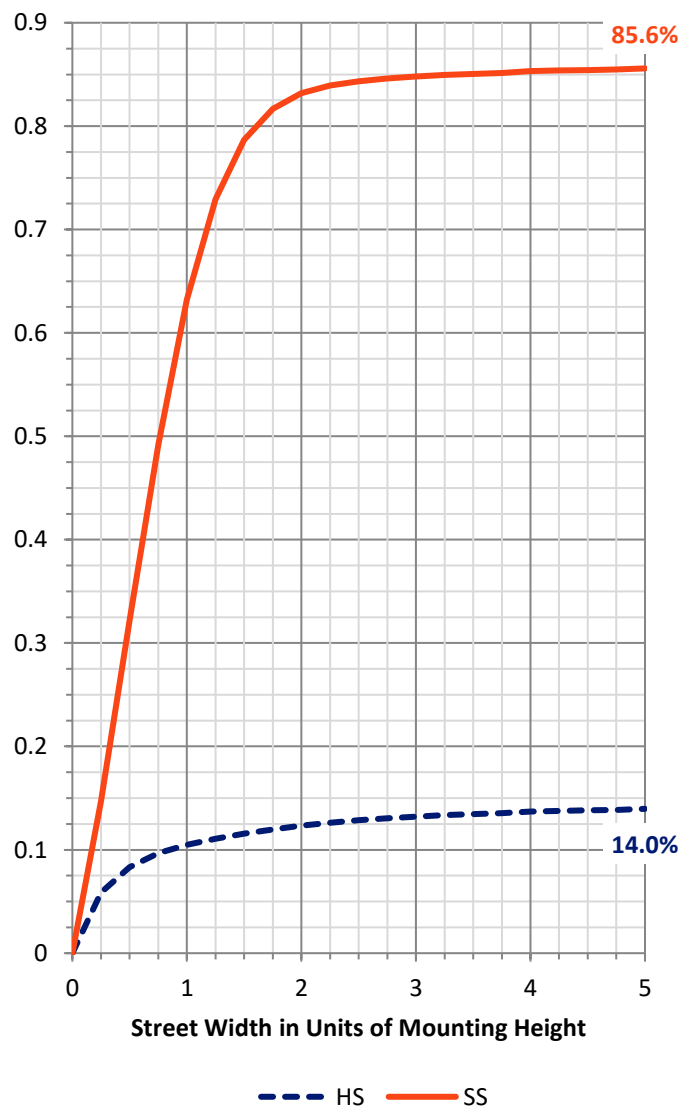
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1494.8	0.0	1494.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9012.2	0.0	9012.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	10507.0	0.0	10507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.2
10°-20°	467.1	4.4
20°-30°	868.5	8.3
30°-40°	1376.7	13.1
40°-50°	1904.1	18.1
50°-60°	2342.1	22.3
60°-70°	2179.5	20.7
70°-80°	1093.7	10.4
80°-90°	150.8	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°	10507.0	100.0
0°-180°	10507.0	100.0

Coefficient of Utilization

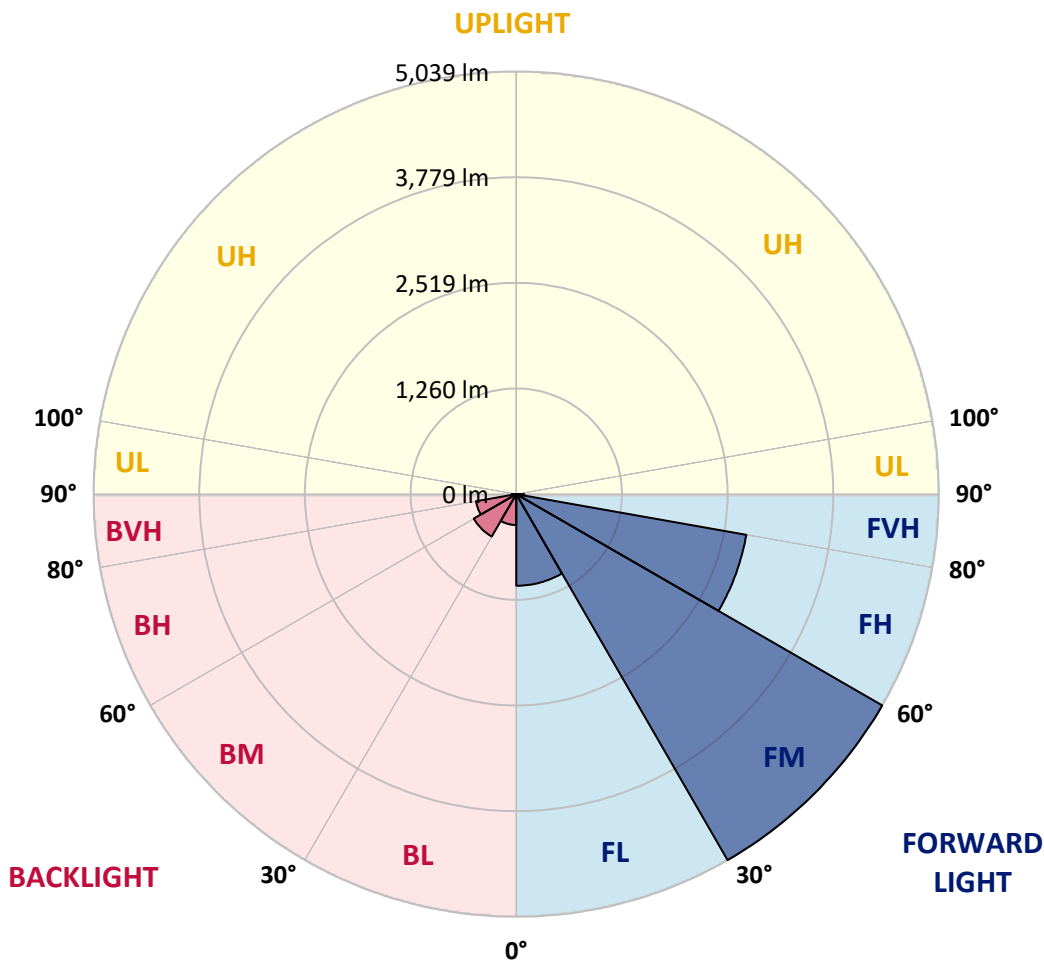


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.0	10.4			
FM (30°-60°)	5038.8	48.0			
FH (60°-80°)	2785.3	26.5			G2/5000
FVH (80°-90°)	96.1	0.9			G1/100
BL (0°-30°)	368.1	3.5	B1/500		
BM (30°-60°)	584.1	5.6	B1/1000		
BH (60°-80°)	487.8	4.6	B1/500		G1/500
BVH (80°-90°)	54.7	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°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1491.9	1474.0	1456.0	1417.7	1404.5	1368.6	1302.7	1229.7	1169.8	1161.4	1119.5
5°	1851.1	1824.8	1818.8	1797.2	1729.0	1659.5	1551.8	1434.4	1288.4	1299.1	1155.5
7.5°	2120.5	2105.0	2072.6	2052.3	2011.6	1919.4	1808.0	1652.4	1466.8	1430.8	1235.7
10°	2324.1	2302.5	2301.3	2283.4	2261.8	2167.2	2082.2	1872.7	1634.4	1585.3	1333.9
12.5°	2427.1	2423.5	2486.9	2486.9	2478.5	2439.0	2292.9	2101.4	1793.6	1776.9	1447.6
15°	2538.4	2508.5	2563.5	2605.5	2627.0	2647.4	2526.4	2324.1	1997.2	1964.9	1569.7
17.5°	2538.4	2536.0	2591.1	2660.5	2773.1	2799.4	2733.6	2528.8	2166.0	2142.1	1703.8
20°	2495.3	2530.0	2568.3	2661.7	2783.9	2890.4	2909.6	2738.4	2352.8	2333.7	1855.9
22.5°	2696.5	2662.9	2702.4	2738.4	2833.0	2994.6	3047.3	2922.8	2549.2	2476.1	1993.6
25°	3034.1	3011.4	2982.6	2929.9	2969.5	3040.1	3120.3	3059.3	2716.8	2635.4	2126.5
27.5°	3363.4	3364.6	3302.3	3187.4	3102.4	3116.7	3211.3	3179.0	2858.1	2822.2	2217.5
30°	3831.6	3802.8	3733.4	3577.7	3411.3	3274.8	3259.2	3290.3	3037.7	2968.3	2348.0
32.5°	4182.4	4188.4	4090.2	3866.3	3638.8	3527.4	3390.9	3404.1	3151.5	3100.0	2452.2
35°	4466.2	4459.0	4389.5	4203.9	3934.5	3800.4	3616.0	3540.6	3416.1	3334.6	2611.4
37.5°	4772.7	4714.0	4601.5	4391.9	4219.5	4033.9	3854.3	3684.3	3592.1	3493.9	2747.9
40°	4896.0	4896.0	4745.1	4649.4	4444.6	4304.5	4188.4	3873.5	3806.4	3787.3	2922.8
42.5°	4808.6	4862.5	4800.2	4691.3	4607.4	4430.2	4399.1	4069.8	4071.0	4032.7	3132.3
45°	4800.2	4726.0	4674.5	4702.0	4662.5	4652.9	4732.0	4341.6	4348.8	4344.0	3413.7
47.5°	4559.6	4526.0	4602.7	4648.2	4680.5	4829.0	5056.5	4666.1	4717.6	4681.7	3738.2
50°	4320.1	4314.1	4362.0	4527.2	4667.3	4911.6	5365.4	5166.6	5335.4	5333.0	4326.1
52.5°	3663.9	3727.4	3915.4	4265.0	4611.0	5024.1	5598.9	5806.0	6128.1	6215.5	4813.4
55°	3036.5	3003.0	3280.8	3788.4	4365.6	5068.4	5859.9	6190.4	6664.5	6728.0	5313.9
57.5°	2362.4	2424.7	2643.8	3131.1	3857.9	4849.3	6051.5	6569.9	7270.4	7319.5	5894.6
60°	1762.5	1770.9	2011.6	2404.3	3182.6	4354.8	6113.7	6959.1	7964.8	8104.9	6502.9
62.5°	1108.8	1159.0	1342.2	1729.0	2395.9	3662.7	5834.7	7194.9	8692.8	8730.0	7115.9
65°	597.5	629.8	767.5	1010.6	1673.9	2770.7	5094.8	7053.7	9035.3	9255.6	7388.9
67°	441.8	447.8	511.3	645.4	1119.5	2085.8	4248.2	6542.4	9190.9	9351.4	7399.7
67.5°	414.3	422.7	473.0	579.5	992.6	1920.6	4026.7	6360.4	9121.5	9293.9	7315.9
70°	354.4	356.8	368.8	398.7	556.8	1155.5	2742.0	5212.1	8454.6	8619.8	6728.0
72.5°	314.9	317.3	322.1	328.1	377.2	668.1	1667.9	4011.2	7348.2	7611.6	5804.8
75°	276.6	285.0	287.4	282.6	320.9	434.6	887.2	2947.9	5994.0	6122.1	4514.1
77.5°	234.7	238.3	243.1	247.9	286.2	324.5	426.3	1990.0	4114.1	4036.3	2441.4
80°	197.6	198.8	202.4	205.9	247.9	247.9	241.9	1075.2	1797.2	1718.2	825.0
82.5°	141.3	149.7	158.1	167.6	205.9	166.4	158.1	478.9	568.7	541.2	279.0
85°	55.1	67.1	104.2	114.9	130.5	89.8	105.4	207.1	237.1	234.7	104.2
87.5°	9.6	10.8	28.7	44.3	47.9	31.1	50.3	74.2	88.6	95.8	38.3
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°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1084.8	1047.7	1003.4	959.1	930.3	884.8	881.3	853.7	850.1	840.5	845.3
5°	1093.2	1048.9	959.1	888.4	856.1	829.8	835.8	823.8	820.2	814.2	804.6
7.5°	1159.0	1071.6	937.5	876.5	852.5	840.5	840.5	826.2	815.4	822.6	829.8
10°	1202.2	1082.4	954.3	893.2	874.1	847.7	857.3	839.3	845.3	831.0	831.0
12.5°	1271.6	1143.5	989.0	918.4	887.2	863.3	872.9	852.5	847.7	848.9	845.3
15°	1365.0	1184.2	1004.6	932.7	911.2	881.3	874.1	856.1	838.2	832.2	839.3
17.5°	1452.4	1234.5	1015.4	941.1	906.4	872.9	864.5	841.7	835.8	817.8	803.4
20°	1556.6	1294.3	1029.7	948.3	888.4	854.9	833.4	810.6	790.3	779.5	784.3
22.5°	1626.0	1325.5	1036.9	933.9	862.1	831.0	785.5	769.9	741.2	729.2	719.6
25°	1739.8	1363.8	1019.0	894.4	815.4	765.1	724.4	702.9	682.5	666.9	662.1
27.5°	1768.5	1392.5	977.0	827.4	741.2	688.5	653.8	627.4	614.2	590.3	585.5
30°	1852.3	1363.8	914.8	746.0	670.5	616.6	581.9	562.8	531.6	525.6	512.5
32.5°	1906.2	1372.2	835.8	666.9	589.1	541.2	518.5	499.3	490.9	462.2	455.0
35°	1996.0	1343.4	755.5	593.9	522.0	484.9	465.8	459.8	432.2	419.1	407.1
37.5°	2053.5	1326.7	675.3	511.3	449.0	433.4	439.4	414.3	380.8	355.6	347.2
40°	2154.1	1320.7	584.3	443.0	398.7	395.1	414.3	366.4	305.3	283.8	271.8
42.5°	2298.9	1280.0	513.7	382.0	359.2	374.8	378.4	305.3	270.6	252.6	244.3
45°	2437.8	1288.4	444.2	316.1	312.5	335.3	326.9	258.6	238.3	225.1	232.3
47.5°	2704.8	1330.3	376.0	263.4	281.4	302.9	253.8	231.1	211.9	202.4	203.6
50°	3117.9	1371.0	316.1	240.7	265.8	274.2	217.9	209.5	208.3	189.2	188.0
52.5°	3365.8	1355.4	305.3	269.4	285.0	274.2	237.1	231.1	221.5	213.1	203.6
55°	3759.7	1400.9	328.1	314.9	323.3	263.4	265.8	263.4	256.2	234.7	240.7
57.5°	4073.4	1430.8	358.0	352.0	347.2	274.2	277.8	279.0	274.2	264.6	273.0
60°	4504.5	1490.7	389.1	390.3	391.5	298.1	304.1	311.3	310.1	306.5	308.9
62.5°	4769.1	1463.2	423.9	443.0	437.0	347.2	346.0	350.8	350.8	356.8	360.4
65°	4729.6	1361.4	441.8	489.7	458.6	383.2	383.2	385.6	386.7	398.7	399.9
67°	4492.5	1179.4	432.2	496.9	458.6	397.5	397.5	399.9	391.5	422.7	413.1
67.5°	4382.3	1125.5	423.9	490.9	455.0	396.3	396.3	397.5	390.3	420.3	410.7
70°	3811.2	835.8	365.2	434.6	421.5	385.6	385.6	378.4	372.4	411.9	403.5
72.5°	3253.2	607.1	293.4	370.0	380.8	371.2	373.6	355.6	338.9	366.4	359.2
75°	2491.7	446.6	228.7	285.0	322.1	347.2	362.8	317.3	295.7	302.9	289.8
77.5°	1390.1	291.0	180.8	210.7	245.5	323.3	348.4	286.2	241.9	233.5	233.5
80°	471.8	170.0	132.9	156.9	168.8	286.2	325.7	232.3	190.4	182.0	176.0
82.5°	178.4	104.2	91.0	107.8	107.8	226.3	265.8	178.4	143.7	185.6	189.2
85°	81.4	62.3	59.9	62.3	62.3	138.9	188.0	116.1	129.3	111.4	98.2
87.5°	32.3	29.9	27.5	26.3	21.6	23.9	64.7	31.1	58.7	15.6	14.4
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)