

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: P478658

Luminaire Tested: **IFLD-S-SA2A-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478658
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

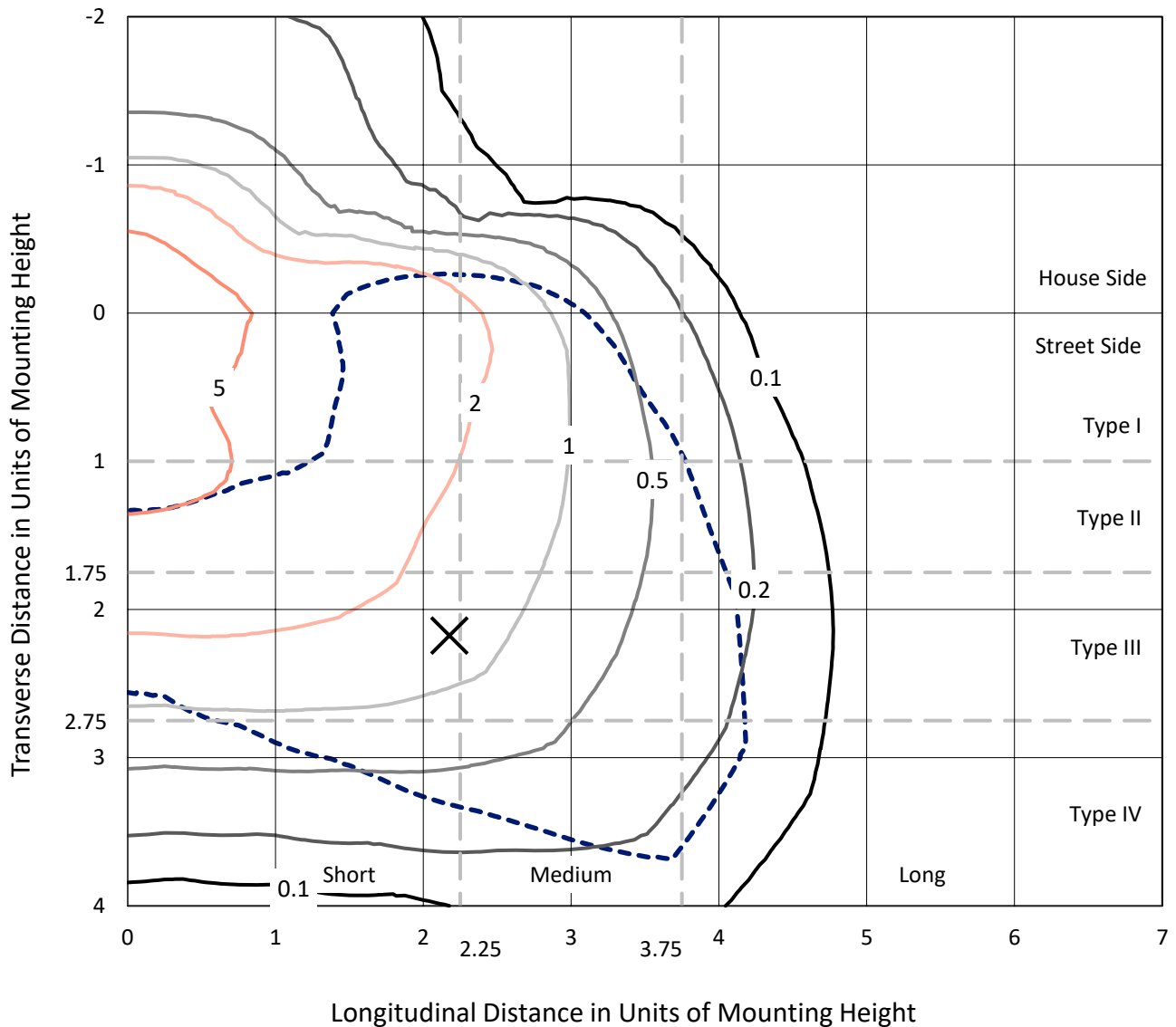
Lumens per Lamp: N/A
Luminaire Lumens: 6859.8 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

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Iso-Footcandle Lines of Horizontal Illumination

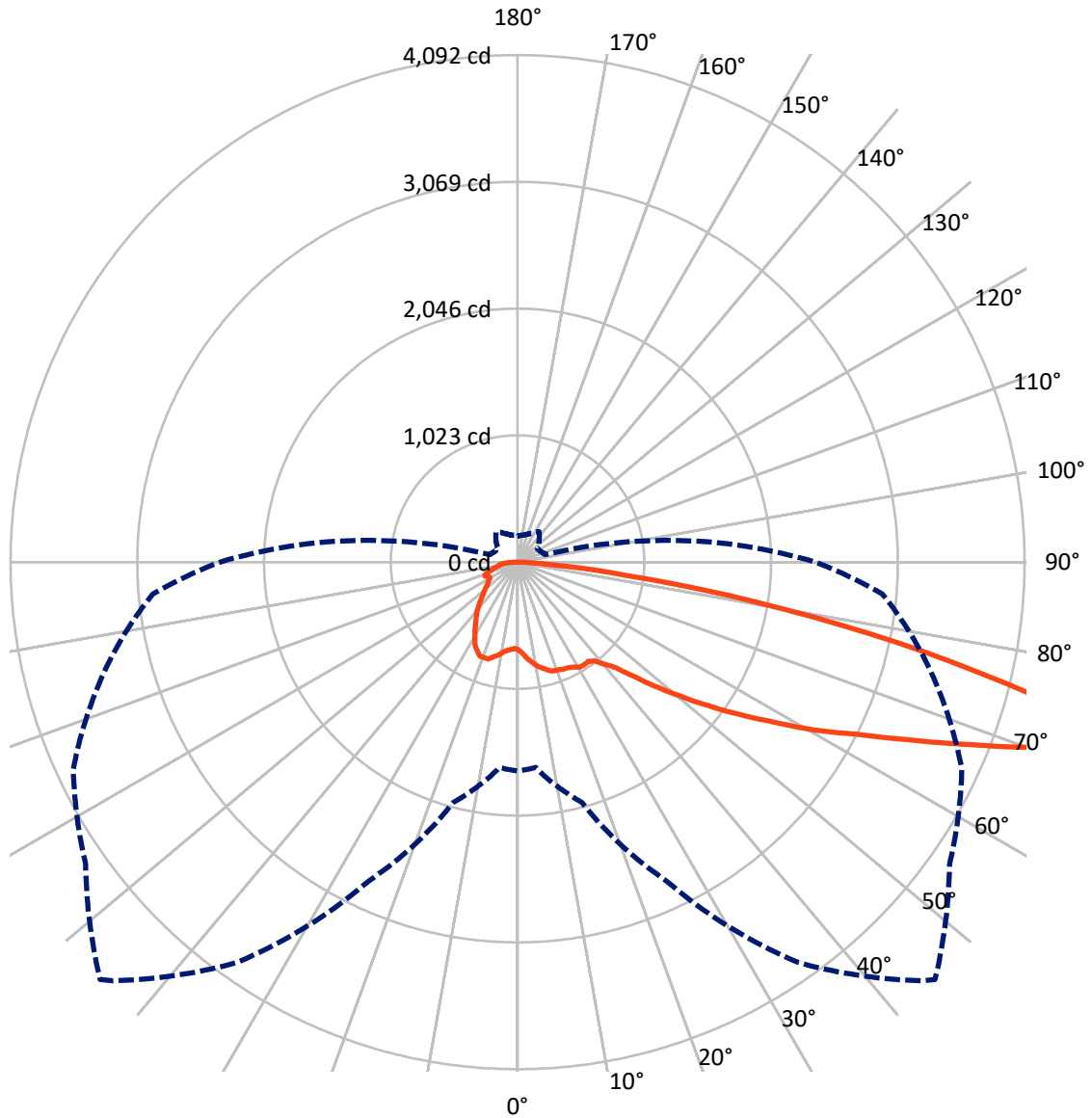
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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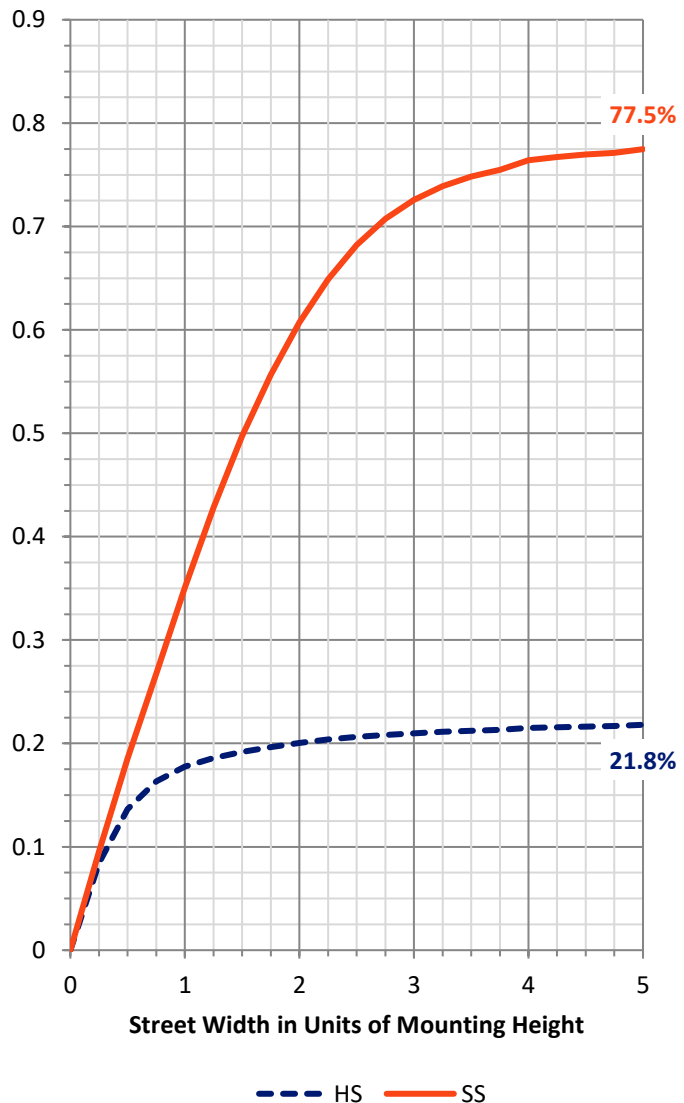
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1527.0	0.0	1527.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	5332.7	0.0	5332.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	6859.8	0.0	6859.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	1.1
10°-20°	240.5	3.5
20°-30°	406.1	5.9
30°-40°	562.0	8.2
40°-50°	803.9	11.7
50°-60°	1296.7	18.9
60°-70°	1912.4	27.9
70°-80°	1388.7	20.2
80°-90°	177.0	2.6
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°	6859.8	100.0
0°-180°	6859.8	100.0

Coefficient of Utilization



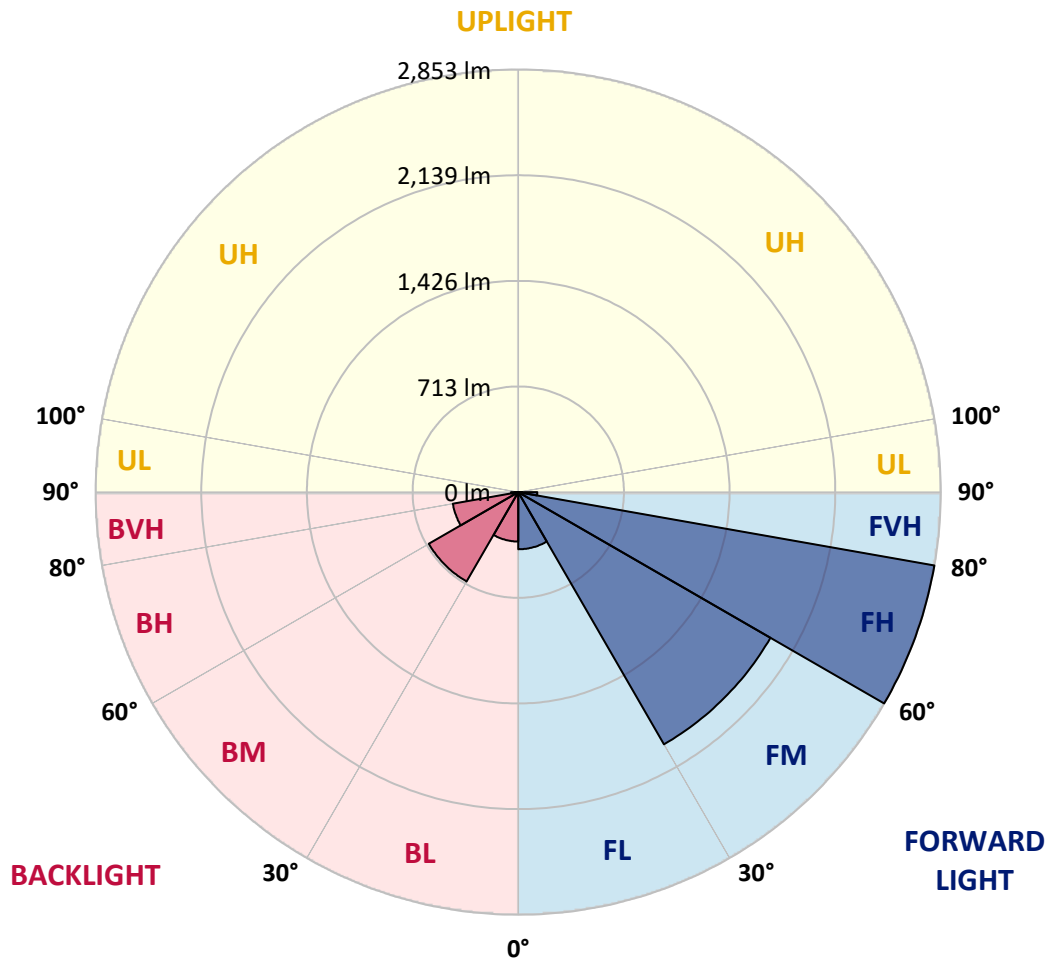
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.5	5.6			
FM (30°-60°)	1965.8	28.7			
FH (60°-80°)	2852.6	41.6			G2/5000
FVH (80°-90°)	128.9	1.9			G2/225
BL (0°-30°)	333.4	4.9	B1/500		
BM (30°-60°)	696.9	10.2	B1/1000		
BH (60°-80°)	448.5	6.5	B1/500		G1/500
BVH (80°-90°)	48.2	0.7			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	706.4	706.4	706.4	706.4	706.4	706.4	706.4	706.4	706.4	706.4	706.4
2.5°	744.2	748.6	744.2	743.4	736.0	730.8	735.3	728.6	721.2	718.3	711.6
5°	812.2	813.0	804.8	805.6	790.0	773.7	776.7	756.7	735.3	727.1	713.8
7.5°	881.7	873.6	861.8	858.1	833.7	815.9	813.7	795.9	762.6	744.2	725.7
10°	926.9	929.8	910.6	894.3	873.6	852.2	851.4	818.1	798.9	771.5	747.9
12.5°	966.8	967.6	951.3	925.4	899.5	872.9	876.6	861.8	829.2	803.3	779.7
15°	997.9	993.4	975.7	952.0	924.6	903.9	901.7	889.1	861.8	840.3	801.1
17.5°	1006.8	1004.5	986.8	961.6	935.0	919.5	925.4	904.7	893.6	874.3	836.6
20°	989.7	984.6	981.6	953.5	934.3	932.8	927.6	932.0	913.6	895.8	868.4
22.5°	958.7	956.5	955.0	932.8	923.9	930.6	939.4	946.1	943.1	926.1	895.1
25°	926.9	937.2	927.6	917.3	929.8	946.8	944.6	966.1	966.1	960.9	935.0
27.5°	949.1	942.4	935.0	929.8	934.3	960.9	959.4	985.3	994.9	985.3	955.7
30°	1004.5	997.9	976.4	953.5	947.6	976.4	983.8	1006.8	1011.2	987.5	962.4
32.5°	1108.8	1105.1	1071.1	1003.8	967.6	983.8	987.5	1013.4	1009.7	994.9	984.6
35°	1263.4	1250.9	1203.5	1089.6	1009.7	993.4	983.8	1004.5	1018.6	1011.2	1001.6
37.5°	1432.8	1418.8	1360.3	1216.1	1085.9	1019.3	1011.9	1028.9	1045.2	1041.5	1021.6
40°	1594.8	1594.8	1542.3	1374.4	1199.1	1082.2	1083.7	1064.5	1079.2	1072.6	1076.3
42.5°	1754.6	1748.7	1727.2	1560.1	1320.4	1187.2	1163.6	1115.5	1142.1	1139.9	1145.1
45°	1916.6	1912.2	1906.3	1733.2	1494.2	1329.3	1316.7	1230.2	1254.6	1244.2	1266.4
47.5°	2046.1	2051.2	2051.2	1926.2	1679.9	1518.6	1500.1	1363.3	1409.9	1415.1	1420.3
50°	2156.3	2158.5	2156.3	2110.4	1887.0	1735.4	1697.7	1558.6	1605.2	1645.9	1693.2
52.5°	2308.7	2311.6	2301.3	2283.5	2168.1	1963.2	1921.0	1766.4	1861.9	1904.8	1989.8
55°	2496.6	2474.4	2455.1	2468.4	2438.1	2214.0	2170.3	1981.0	2124.5	2181.4	2351.6
57.5°	2531.3	2550.5	2599.4	2705.2	2748.8	2458.1	2432.9	2244.3	2421.1	2470.7	2754.7
60°	2654.1	2622.3	2742.1	2971.4	3020.3	2776.2	2750.3	2532.8	2716.2	2768.0	3126.8
62.5°	2734.7	2733.3	2910.8	3183.0	3294.0	3106.1	3053.6	2907.8	3035.1	3085.4	3532.2
65°	2711.1	2732.5	3047.6	3307.3	3522.5	3481.1	3450.8	3230.4	3398.3	3393.8	3796.2
67.5°	2495.1	2555.7	2961.1	3396.8	3862.8	3938.3	3928.6	3683.8	3693.4	3599.5	3913.9
70°	2195.5	2174.8	2594.9	3303.6	4032.9	4480.5	4478.3	4021.1	3959.0	3644.6	3576.5
72°	1686.6	1663.6	2009.1	2836.8	3943.4	4697.2	4763.8	4254.9	3956.0	3457.4	2954.4
72.5°	1531.2	1511.2	1855.2	2670.4	3844.3	4753.4	4722.4	4263.7	3924.9	3369.4	2759.9
75°	705.0	682.0	926.9	1634.8	2998.8	4212.0	4317.7	3990.0	3427.9	2682.2	1653.3
77.5°	210.1	203.4	298.1	659.8	1742.8	3103.1	3143.8	3010.7	2393.0	1469.1	613.2
80°	116.9	117.6	153.9	247.1	766.3	1793.8	1940.3	1859.7	1173.9	485.3	204.2
82.5°	65.1	68.8	96.2	146.5	352.1	823.3	886.2	854.4	424.6	227.8	111.7
85°	34.0	35.5	50.3	78.4	199.7	260.4	267.8	287.0	220.4	155.3	59.9
87.5°	13.3	13.3	18.5	32.5	74.0	80.6	72.5	88.0	126.5	100.6	29.6
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°	706.4	706.4	706.4	706.4	706.4	706.4	706.4	706.4	706.4	706.4	706.4
2.5°	717.5	711.6	710.9	701.3	704.2	696.1	696.8	695.3	696.1	694.6	690.9
5°	713.8	709.4	696.8	705.0	697.6	707.9	716.0	713.1	715.3	714.6	715.3
7.5°	719.0	713.1	711.6	707.2	713.8	718.3	724.9	743.4	741.9	744.2	748.6
10°	734.5	727.9	723.4	730.1	726.4	740.5	747.9	757.5	774.5	775.2	766.3
12.5°	764.9	760.4	751.6	753.0	765.6	770.0	774.5	780.4	791.5	789.3	797.4
15°	799.6	790.0	784.8	783.4	786.3	791.5	790.8	796.7	802.6	807.8	805.6
17.5°	824.8	812.2	813.7	821.1	820.3	818.9	809.3	806.3	809.3	812.2	810.7
20°	850.7	852.2	841.1	834.4	831.4	816.6	809.3	800.4	791.5	795.9	802.6
22.5°	883.2	876.6	860.3	840.3	825.5	816.6	793.7	778.2	778.2	782.6	780.4
25°	920.2	906.2	878.0	841.8	823.3	785.6	769.3	767.1	761.2	767.8	770.8
27.5°	949.1	936.5	898.0	836.6	785.6	755.3	745.6	742.7	752.3	753.0	764.9
30°	960.9	957.2	901.0	823.3	747.1	698.3	692.4	705.7	716.0	731.6	732.3
32.5°	976.4	977.9	905.4	792.2	696.8	648.0	639.1	655.4	685.0	697.6	707.2
35°	1002.3	1009.7	901.7	753.8	643.6	597.0	595.5	599.9	628.8	651.0	663.5
37.5°	1047.4	1046.0	901.0	707.9	601.4	552.6	540.7	542.2	561.4	579.9	577.7
40°	1108.1	1102.2	898.8	648.0	546.7	514.8	494.9	487.5	486.0	480.8	482.3
42.5°	1190.9	1179.1	898.0	587.3	497.1	463.1	449.0	429.8	415.7	389.1	390.6
45°	1306.3	1285.6	878.8	530.4	448.3	420.2	398.7	384.7	354.3	321.0	321.0
47.5°	1484.6	1417.3	879.5	467.5	400.9	378.0	363.2	338.8	306.2	279.6	276.7
50°	1747.2	1593.4	854.4	417.9	362.5	346.9	331.4	303.3	272.2	253.7	255.9
52.5°	2086.0	1856.0	853.6	373.6	332.1	321.0	304.0	278.9	255.9	244.1	239.7
55°	2489.9	2203.6	880.3	337.3	301.1	295.1	287.8	267.0	244.8	234.5	233.8
57.5°	2903.4	2543.2	923.2	311.4	274.4	278.9	273.7	257.4	239.7	227.8	226.4
60°	3271.0	2812.4	836.6	280.4	250.8	260.4	267.8	253.7	244.1	243.4	238.2
62.5°	3548.4	2927.8	636.2	256.7	238.2	255.9	275.9	284.8	280.4	286.3	287.0
65°	3649.8	2858.3	437.9	244.1	228.6	266.3	310.7	307.7	281.8	270.7	276.7
67.5°	3507.7	2576.4	324.7	229.3	221.9	287.8	330.7	293.7	254.5	253.0	248.5
70°	3016.6	2183.6	264.8	213.8	210.8	275.9	321.8	272.2	239.7	230.1	225.6
72°	2403.3	1700.6	232.3	202.7	193.1	246.3	301.1	255.2	227.1	215.3	210.1
72.5°	2194.0	1576.3	227.8	197.5	189.4	239.7	290.7	250.0	224.1	213.8	205.6
75°	1203.5	807.0	200.5	181.2	159.8	207.1	269.3	234.5	211.6	196.8	195.3
77.5°	447.5	312.9	173.1	160.5	138.3	179.0	244.8	222.7	192.3	173.8	170.1
80°	171.6	165.0	141.3	135.4	116.1	156.8	225.6	199.7	163.5	145.0	139.1
82.5°	104.3	96.2	107.3	105.8	88.8	142.8	212.3	187.1	145.0	117.6	113.9
85°	57.0	57.0	74.7	71.8	62.1	113.9	160.5	124.3	91.7	75.5	76.9
87.5°	25.2	29.6	39.9	37.7	34.0	64.4	78.4	65.8	45.9	31.1	33.3
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)