

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: P476513

Luminaire Tested: **IFLD-S-SA2A-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476513
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

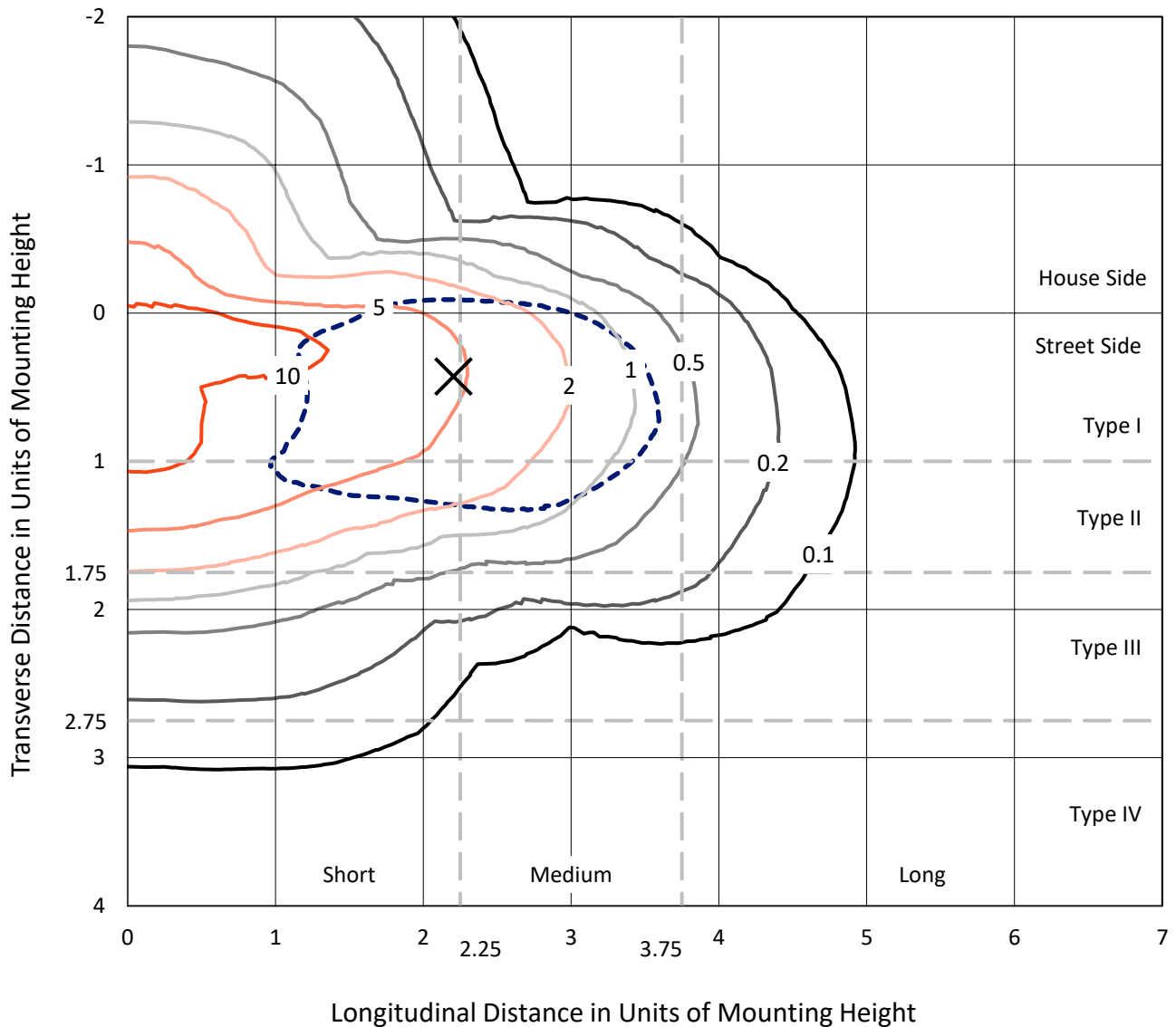
Lumens per Lamp: N/A
Luminaire Lumens: 8396.7 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

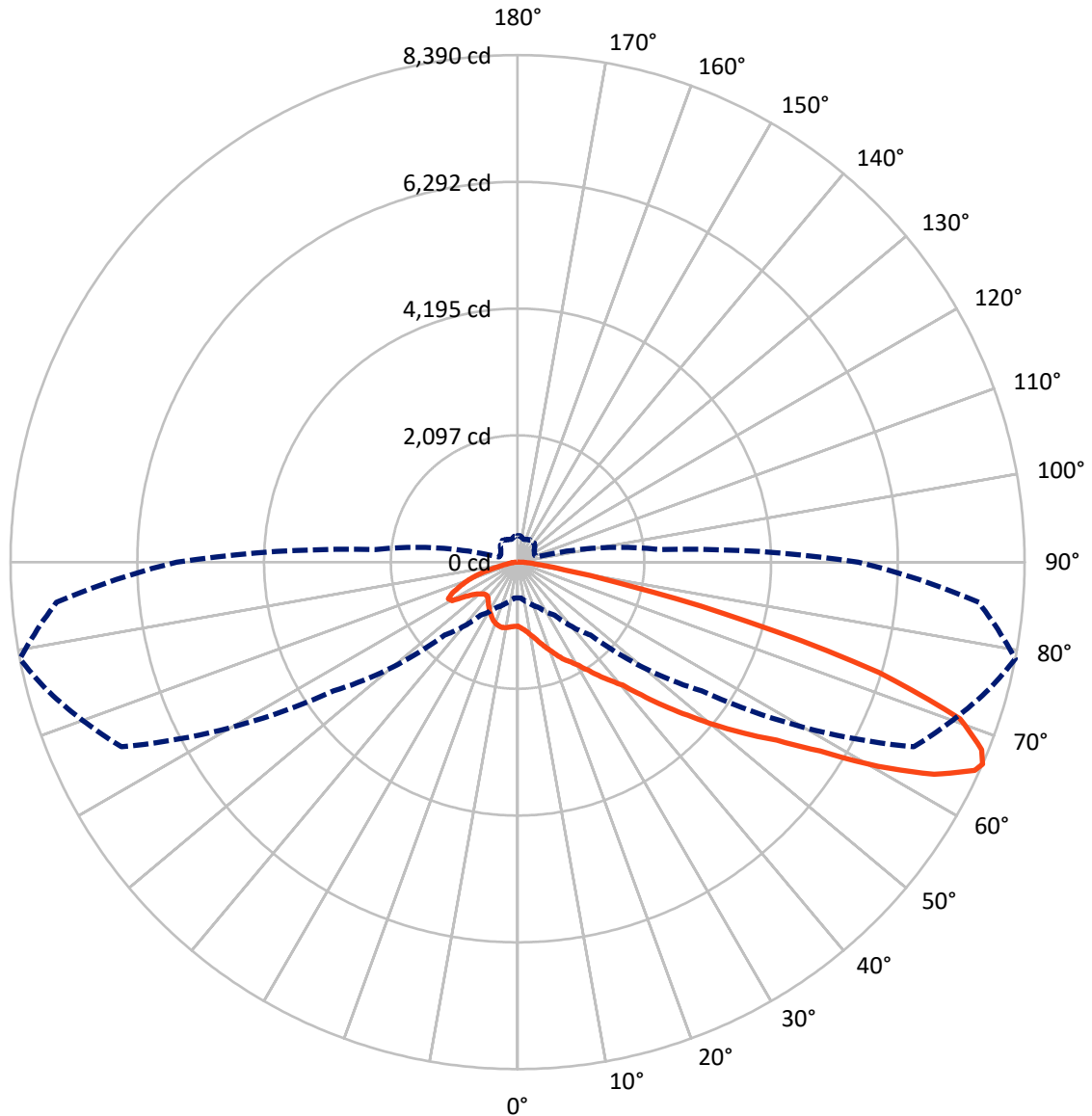
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 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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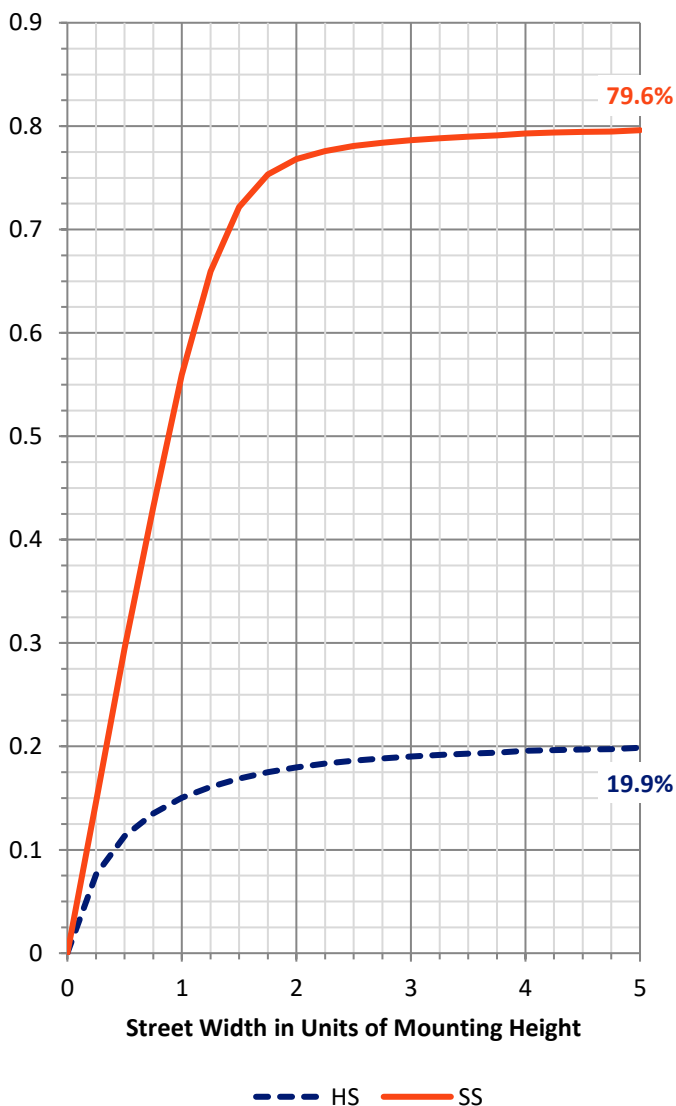
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1695.6	0.0	1695.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	6701.1	0.0	6701.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	8396.7	0.0	8396.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	1.2
10°-20°	321.9	3.8
20°-30°	552.6	6.6
30°-40°	853.7	10.2
40°-50°	1367.4	16.3
50°-60°	2041.6	24.3
60°-70°	2097.7	25.0
70°-80°	929.9	11.1
80°-90°	127.6	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°	8396.7	100.0
0°-180°	8396.7	100.0



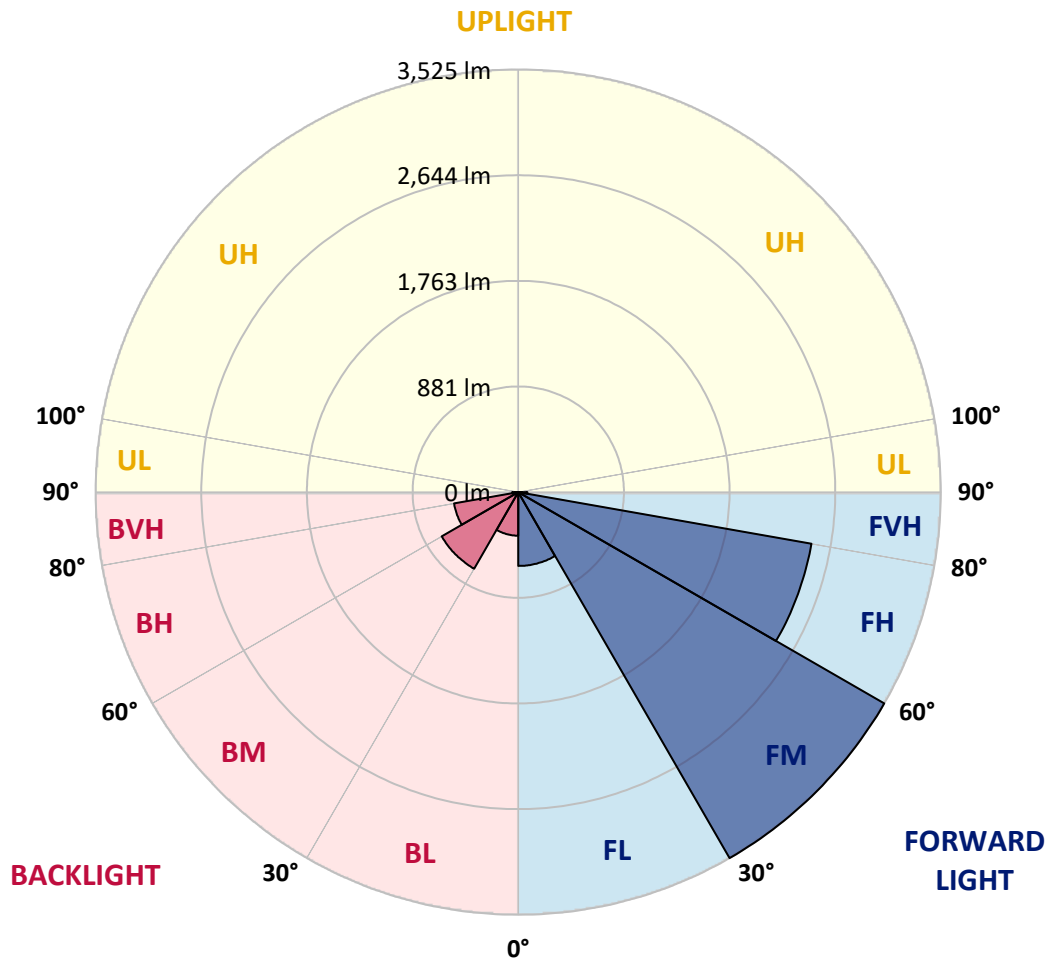
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.5	7.3			
FM (30°-60°)	3525.5	42.0			
FH (60°-80°)	2483.6	29.6			G2/5000
FVH (80°-90°)	76.5	0.9			G1/100
BL (0°-30°)	363.3	4.3	B1/500		
BM (30°-60°)	737.2	8.8	B1/1000		
BH (60°-80°)	544.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	51.1	0.6			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3
2.5°	1127.7	1128.6	1128.6	1124.9	1125.8	1128.6	1118.5	1096.3	1096.3	1092.6	1086.1
5°	1197.0	1192.3	1185.9	1186.8	1183.1	1183.1	1172.0	1150.8	1132.3	1124.9	1105.5
7.5°	1206.2	1210.8	1209.9	1221.0	1226.5	1226.5	1232.1	1214.5	1186.8	1169.3	1149.9
10°	1224.7	1212.7	1211.7	1237.6	1245.9	1265.3	1287.5	1278.2	1255.1	1230.2	1204.4
12.5°	1235.8	1243.1	1243.1	1256.1	1275.5	1304.1	1342.9	1360.4	1324.4	1298.6	1258.8
15°	1252.4	1242.2	1271.8	1282.9	1319.8	1340.1	1395.5	1440.8	1416.8	1385.4	1322.6
17.5°	1259.8	1253.3	1269.9	1290.2	1353.0	1383.5	1450.9	1513.8	1493.4	1473.1	1408.5
20°	1297.6	1296.7	1304.1	1320.7	1366.0	1426.0	1510.1	1596.9	1604.3	1567.3	1479.6
22.5°	1390.0	1378.0	1378.0	1371.5	1390.9	1452.8	1566.4	1686.5	1719.7	1676.3	1559.9
25°	1475.0	1491.6	1481.4	1451.9	1444.5	1476.8	1607.0	1781.6	1825.9	1785.3	1668.9
27.5°	1583.9	1589.5	1607.0	1567.3	1516.5	1526.7	1651.4	1835.2	1926.6	1872.1	1730.8
30°	1741.0	1730.8	1727.1	1682.8	1616.3	1602.4	1702.2	1913.7	2058.7	1982.0	1803.8
32.5°	1847.2	1872.1	1871.2	1810.2	1729.9	1699.4	1765.0	1987.5	2200.0	2128.9	1938.6
35°	2057.7	2083.6	2063.3	1973.7	1879.5	1818.5	1855.5	2083.6	2361.6	2306.2	2053.1
37.5°	2326.5	2387.5	2344.1	2178.7	2045.7	1979.2	1981.1	2188.0	2526.9	2481.7	2176.0
40°	2512.1	2594.3	2534.3	2379.1	2237.8	2175.0	2150.1	2311.7	2724.6	2676.5	2368.1
42.5°	2742.1	2810.5	2779.1	2625.7	2460.4	2406.9	2357.0	2518.6	3026.6	3004.4	2614.7
45°	2993.3	3025.7	3015.5	2918.5	2734.7	2716.3	2606.3	2791.1	3382.2	3391.4	2923.1
47.5°	3227.0	3244.5	3263.9	3193.7	3079.2	3094.9	2893.6	3082.9	3727.6	3788.5	3266.7
50°	3287.0	3347.1	3392.3	3439.4	3464.4	3570.6	3210.4	3441.3	4124.7	4242.9	3649.1
52.5°	3226.1	3221.5	3359.1	3506.8	3756.2	3978.8	3641.7	3886.4	4475.7	4709.3	3999.1
55°	2949.0	2939.8	3161.4	3357.2	3843.9	4206.0	4257.7	4479.4	4899.6	5203.5	4472.9
57.5°	2464.1	2406.9	2648.8	2970.2	3653.7	4230.9	4876.5	5359.5	5551.7	5898.0	5196.1
60°	1656.0	1632.0	1863.8	2247.1	2966.5	3877.2	5246.9	6461.4	6470.6	6860.4	6318.2
62.5°	1019.6	1024.3	1172.9	1460.2	2077.1	3073.7	5087.1	7341.6	7343.4	7734.1	7241.8
65°	666.8	669.6	789.7	948.5	1297.6	2084.5	4206.9	7410.8	7950.2	8313.2	7664.8
66°	593.9	594.8	698.2	827.5	1075.0	1705.9	3715.6	7230.7	8086.9	8389.8	7659.3
67.5°	500.6	512.6	595.7	695.5	838.6	1225.6	2948.1	6709.8	8016.7	8282.7	7485.6
70°	391.6	398.1	463.6	565.2	629.0	709.3	1752.0	5469.5	7337.9	7769.2	6853.9
72.5°	314.0	319.6	369.4	459.0	510.7	467.3	954.1	3968.6	5796.4	6256.3	5390.9
75°	265.1	266.0	290.0	361.1	420.2	351.0	508.0	2547.2	3719.3	3933.5	3302.7
77.5°	214.3	218.0	234.6	275.2	338.0	276.2	302.9	1426.9	1867.5	1883.2	1526.7
80°	174.6	176.4	186.6	200.4	257.7	204.1	205.0	696.4	800.7	782.3	620.6
82.5°	137.6	139.5	151.5	148.7	189.3	145.9	127.5	335.3	368.5	361.1	285.4
85°	77.6	77.6	119.1	119.1	120.1	92.4	77.6	157.9	194.9	181.9	133.9
87.5°	24.9	25.9	36.0	37.9	60.0	41.6	37.9	59.1	92.4	81.3	48.0
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°	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3	1060.3
2.5°	1082.4	1067.7	1061.2	1040.0	1034.4	1020.6	1014.1	1005.8	1003.0	991.0	1002.1
5°	1090.8	1086.1	1060.3	1033.5	1013.2	1003.9	990.1	971.6	969.8	953.1	951.3
7.5°	1125.8	1110.1	1064.9	1036.3	995.6	972.5	942.1	932.8	920.8	915.3	927.3
10°	1180.3	1140.6	1073.2	1001.2	951.3	923.6	901.4	895.0	895.9	892.2	886.6
12.5°	1219.1	1181.3	1059.3	971.6	907.0	880.2	878.3	884.8	895.0	890.3	896.8
15°	1274.5	1203.4	1049.2	922.7	870.9	863.5	862.6	882.0	881.1	881.1	880.2
17.5°	1326.3	1225.6	1012.2	880.2	833.1	838.6	845.1	844.2	853.4	857.1	863.5
20°	1391.8	1251.5	960.5	837.7	804.4	802.6	801.7	802.6	811.8	817.4	812.8
22.5°	1449.1	1257.0	917.1	797.1	770.3	762.9	750.9	762.9	758.3	760.1	765.6
25°	1499.0	1257.9	855.2	766.6	736.1	719.5	710.2	709.3	701.0	700.1	700.1
27.5°	1540.5	1226.5	800.7	724.1	695.5	679.8	678.8	668.7	647.4	633.6	635.4
30°	1572.9	1202.5	762.9	687.1	659.4	656.7	648.4	625.3	597.6	580.0	580.0
32.5°	1630.1	1154.5	711.2	649.3	635.4	631.7	612.3	592.0	566.2	549.5	546.8
35°	1672.6	1110.1	677.0	617.0	610.5	603.1	586.5	564.3	556.9	553.2	556.0
37.5°	1720.6	1060.3	635.4	589.2	595.7	581.9	562.5	552.3	578.2	571.7	574.5
40°	1797.3	1025.2	594.8	572.6	579.1	563.4	538.4	534.8	567.1	544.0	538.4
42.5°	1937.7	1024.3	569.8	547.7	552.3	540.3	518.1	516.3	529.2	501.5	493.2
45°	2112.2	1056.6	551.4	529.2	525.5	523.7	516.3	508.0	496.9	460.9	451.6
47.5°	2321.0	1109.2	547.7	501.5	506.1	521.8	512.6	491.3	462.7	439.6	435.0
50°	2574.0	1218.2	538.4	481.2	489.5	514.4	507.0	477.5	451.6	436.9	434.1
52.5°	2853.9	1355.8	526.4	449.8	468.3	508.0	511.7	484.0	446.1	433.2	431.3
55°	3183.6	1559.0	512.6	415.6	443.3	501.5	511.7	465.5	438.7	438.7	436.9
57.5°	3834.7	1924.7	484.0	384.2	421.2	489.5	496.9	466.4	439.6	439.6	435.9
60°	4789.7	2495.5	429.5	360.2	399.9	472.9	485.8	452.6	429.5	435.0	434.1
62.5°	5536.9	2669.2	383.3	337.1	378.7	442.4	471.0	437.8	417.5	437.8	439.6
65°	5696.7	2493.7	336.2	312.2	349.1	412.8	449.8	416.5	399.9	439.6	441.5
66°	5639.4	2357.0	319.6	304.8	336.2	398.1	436.9	409.1	390.7	437.8	438.7
67.5°	5384.5	2151.9	301.1	289.1	318.6	376.8	422.1	399.0	375.9	432.2	423.9
70°	4830.3	1825.0	269.7	261.4	293.7	341.7	387.9	373.1	352.8	398.1	383.3
72.5°	3720.2	1458.3	236.4	237.4	265.1	305.7	353.7	343.6	326.0	349.1	339.9
75°	2265.5	931.9	206.0	207.8	230.9	271.5	321.4	314.0	292.8	305.7	301.1
77.5°	1003.9	461.8	173.6	177.3	195.8	239.2	279.8	267.8	245.7	248.4	246.6
80°	389.8	218.9	141.3	145.9	157.9	191.2	231.8	220.7	201.3	197.6	195.8
82.5°	187.5	121.9	109.0	110.8	115.4	152.4	199.5	185.6	159.8	143.2	143.2
85°	94.2	75.7	76.7	70.2	76.7	103.4	134.8	112.7	93.3	83.1	85.0
87.5°	37.9	37.9	37.9	32.3	34.2	48.9	62.8	42.5	38.8	23.1	23.1
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)