

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: P476474

Luminaire Tested: **IFLD-S-SA2A-727-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476474
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

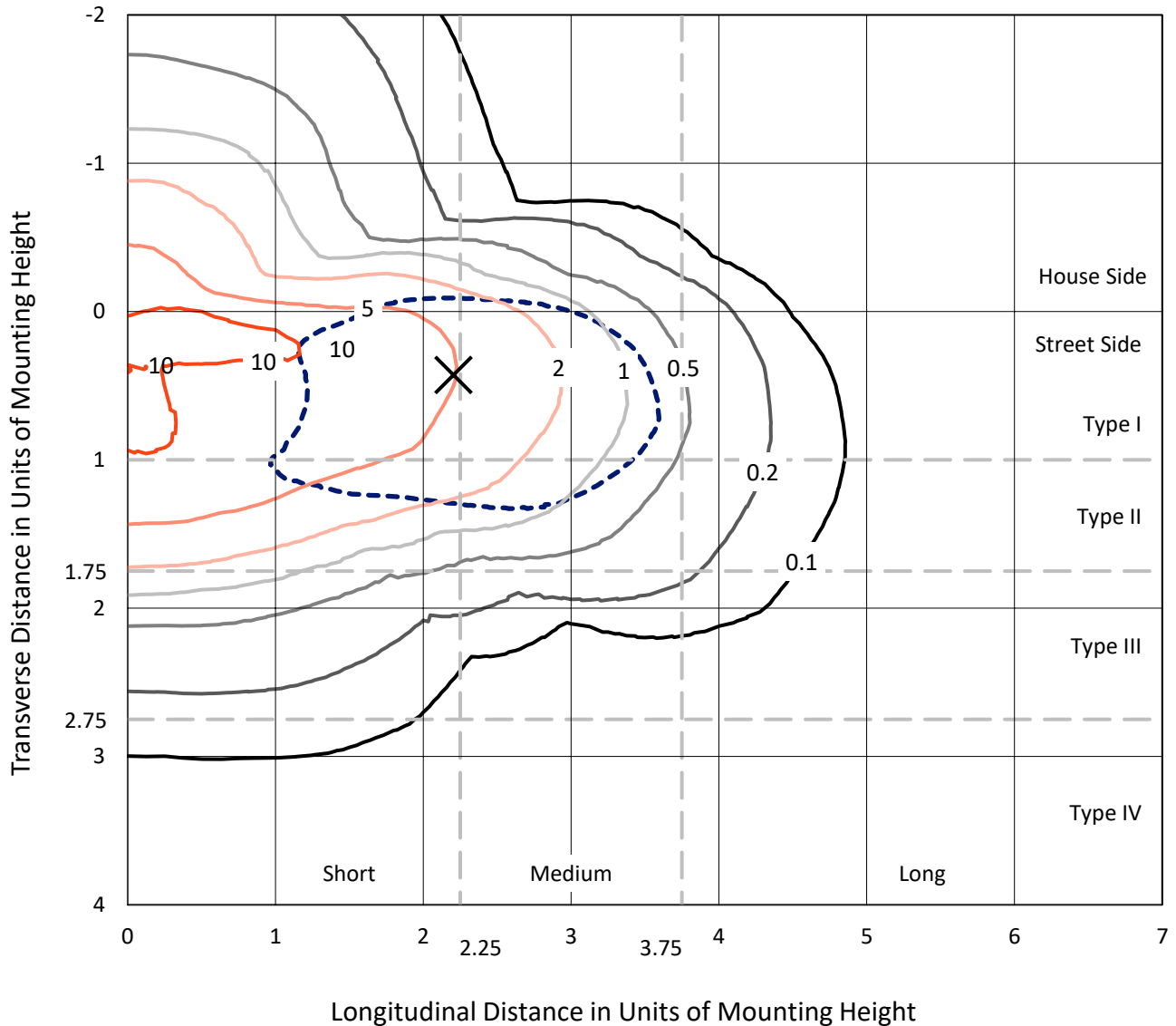
Lumens per Lamp: N/A
Luminaire Lumens: 7711.6 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

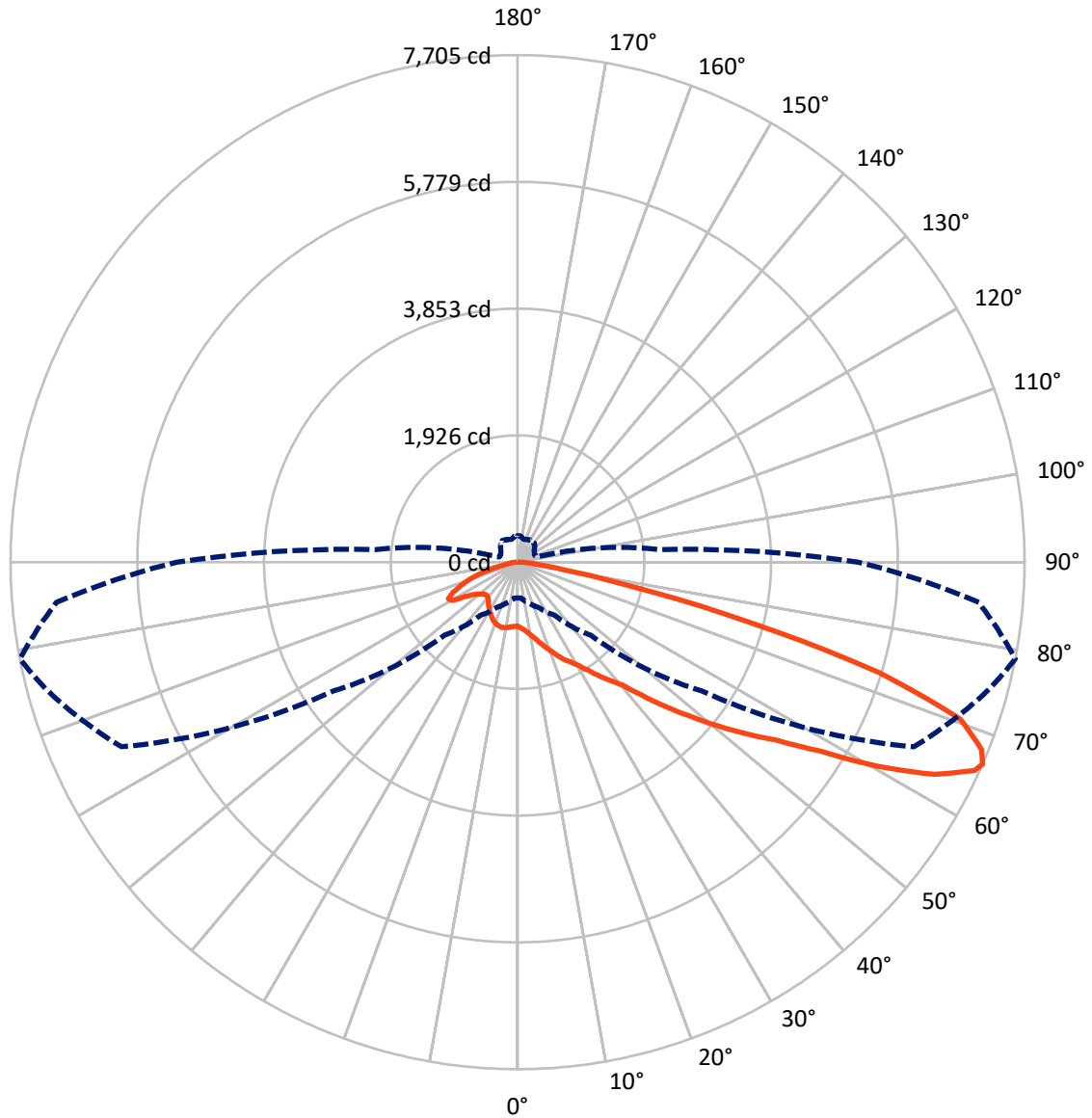
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 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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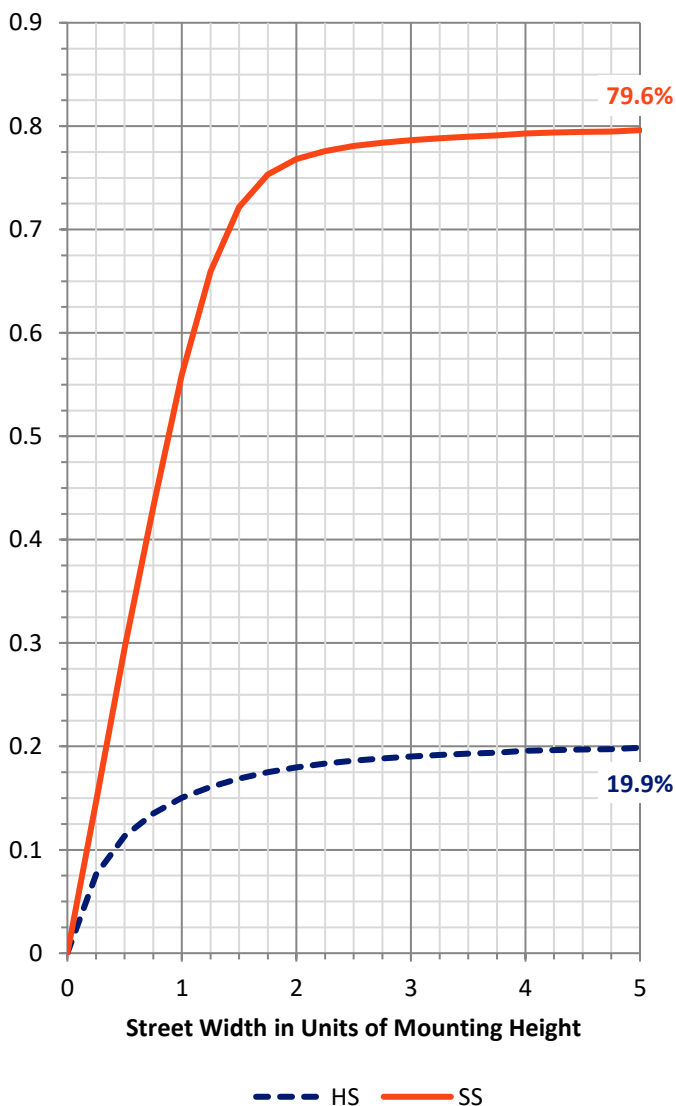
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1557.3	0.0	1557.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	6154.3	0.0	6154.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	7711.6	0.0	7711.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	1.2
10°-20°	295.7	3.8
20°-30°	507.5	6.6
30°-40°	784.0	10.2
40°-50°	1255.8	16.3
50°-60°	1875.0	24.3
60°-70°	1926.6	25.0
70°-80°	854.0	11.1
80°-90°	117.2	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°	7711.6	100.0
0°-180°	7711.6	100.0

Coefficient of Utilization



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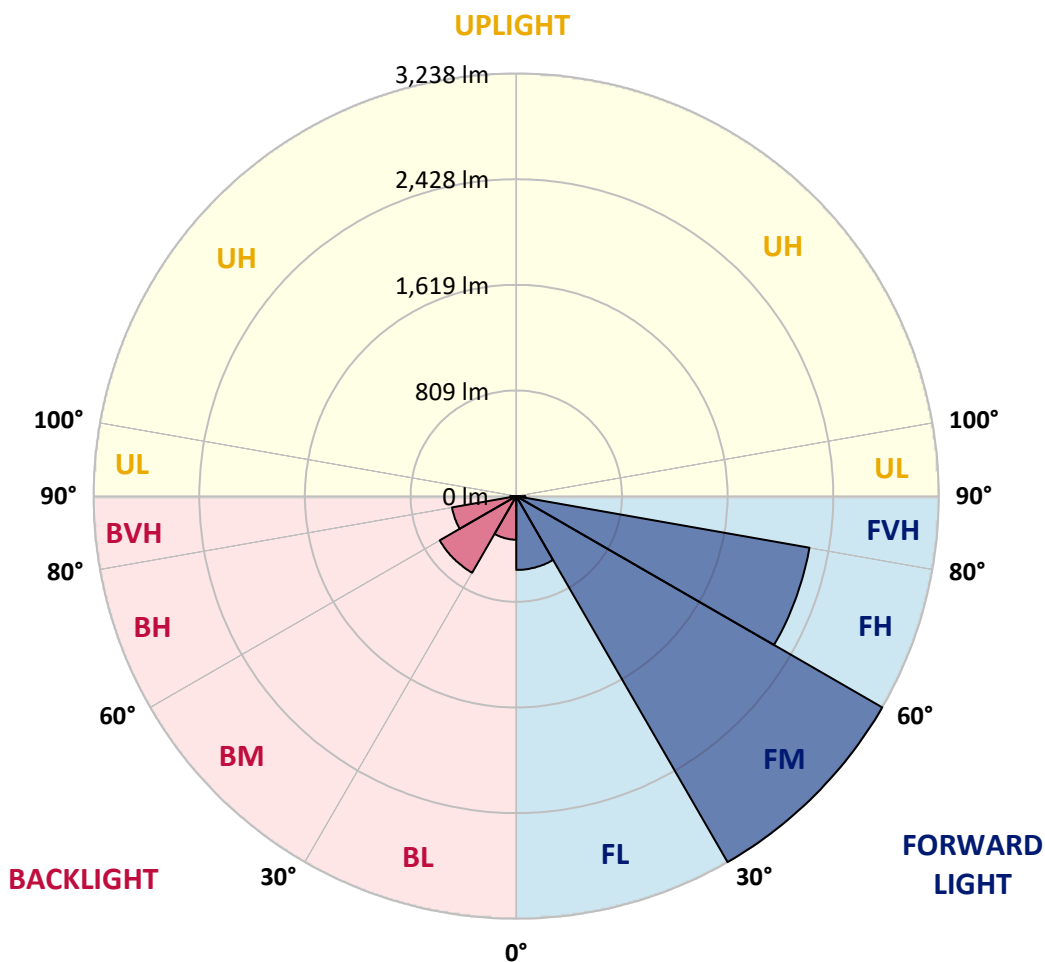
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	565.3	7.3			
FM (30°-60°)	3237.8	42.0			
FH (60°-80°)	2280.9	29.6			G2/5000
FVH (80°-90°)	70.3	0.9			G1/100
BL (0°-30°)	333.6	4.3	B1/500		
BM (30°-60°)	677.0	8.8	B1/1000		
BH (60°-80°)	499.7	6.5	B1/500		G1/500
BVH (80°-90°)	46.9	0.6			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	1035.7	1036.5	1036.5	1033.1	1034.0	1036.5	1027.2	1006.8	1006.8	1003.4	997.5
5°	1099.3	1095.1	1089.1	1090.0	1086.6	1086.6	1076.4	1056.9	1039.9	1033.1	1015.3
7.5°	1107.8	1112.0	1111.2	1121.4	1126.4	1126.4	1131.5	1115.4	1090.0	1073.8	1056.0
10°	1124.7	1113.7	1112.9	1136.6	1144.3	1162.1	1182.4	1173.9	1152.7	1129.8	1106.1
12.5°	1134.9	1141.7	1141.7	1153.6	1171.4	1197.7	1233.3	1249.4	1216.4	1192.6	1156.1
15°	1150.2	1140.9	1168.0	1178.2	1212.1	1230.8	1281.7	1323.2	1301.2	1272.3	1214.7
17.5°	1157.0	1151.0	1166.3	1185.0	1242.6	1270.6	1332.6	1390.2	1371.6	1352.9	1293.5
20°	1191.8	1190.9	1197.7	1213.0	1254.5	1309.7	1386.8	1466.6	1473.4	1439.4	1358.9
22.5°	1276.6	1265.5	1265.5	1259.6	1277.4	1334.3	1438.6	1548.9	1579.4	1539.5	1432.6
25°	1354.6	1369.9	1360.5	1333.4	1326.6	1356.3	1475.9	1636.2	1676.9	1639.6	1532.7
27.5°	1454.7	1459.8	1475.9	1439.4	1392.8	1402.1	1516.6	1685.4	1769.4	1719.3	1589.6
30°	1598.9	1589.6	1586.2	1545.5	1484.4	1471.7	1563.3	1757.5	1890.7	1820.3	1656.6
32.5°	1696.4	1719.3	1718.5	1662.5	1588.7	1560.7	1621.0	1825.4	2020.5	1955.2	1780.4
35°	1889.8	1913.6	1894.9	1812.7	1726.1	1670.2	1704.1	1913.6	2168.9	2118.0	1885.6
37.5°	2136.7	2192.7	2152.8	2001.0	1878.8	1817.7	1819.4	2009.4	2320.7	2279.2	1998.4
40°	2307.2	2382.7	2327.5	2185.0	2055.2	1997.6	1974.7	2123.1	2502.3	2458.1	2174.8
42.5°	2518.4	2581.1	2552.3	2411.5	2259.7	2210.5	2164.7	2313.1	2779.6	2759.3	2401.3
45°	2749.1	2778.8	2769.4	2680.4	2511.6	2494.6	2393.7	2563.3	3106.2	3114.7	2684.6
47.5°	2963.7	2979.8	2997.6	2933.2	2828.0	2842.4	2657.5	2831.4	3423.4	3479.4	3000.2
50°	3018.8	3074.0	3115.5	3158.8	3181.7	3279.2	2948.4	3160.5	3788.2	3896.7	3351.3
52.5°	2962.8	2958.6	3085.0	3220.7	3449.7	3654.1	3344.5	3569.3	4110.5	4325.1	3672.8
55°	2708.4	2699.9	2903.5	3083.3	3530.3	3862.8	3910.3	4113.9	4499.8	4778.9	4107.9
57.5°	2263.1	2210.5	2432.7	2727.9	3355.6	3885.7	4478.6	4922.2	5098.7	5416.7	4772.1
60°	1520.9	1498.8	1711.7	2063.7	2724.5	3560.8	4818.8	5934.2	5942.6	6300.6	5802.7
62.5°	936.4	940.7	1077.2	1341.0	1907.7	2822.9	4672.0	6742.5	6744.2	7103.0	6650.9
65°	612.4	615.0	725.2	871.1	1191.8	1914.4	3863.7	6806.1	7301.5	7634.9	7039.4
66°	545.4	546.3	641.3	760.0	987.3	1566.7	3412.4	6640.7	7427.0	7705.3	7034.3
67.5°	459.7	470.8	547.1	638.7	770.2	1125.6	2707.5	6162.3	7362.6	7606.9	6874.8
70°	359.6	365.6	425.8	519.1	577.6	651.4	1609.1	5023.2	6739.1	7135.2	6294.7
72.5°	288.4	293.5	339.3	421.6	469.1	429.2	876.2	3644.8	5323.4	5745.9	4951.1
75°	243.4	244.3	266.3	331.7	385.9	322.3	466.5	2339.4	3415.8	3612.6	3033.2
77.5°	196.8	200.2	215.4	252.8	310.4	253.6	278.2	1310.5	1715.1	1729.5	1402.1
80°	160.3	162.0	171.3	184.1	236.7	187.5	188.3	639.6	735.4	718.4	570.0
82.5°	126.4	128.1	139.1	136.6	173.9	134.0	117.1	307.9	338.4	331.7	262.1
85°	71.3	71.3	109.4	109.4	110.3	84.8	71.3	145.0	179.0	167.1	123.0
87.5°	22.9	23.8	33.1	34.8	55.1	38.2	34.8	54.3	84.8	74.6	44.1
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°	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8	973.8
2.5°	994.1	980.5	974.6	955.1	950.0	937.3	931.3	923.7	921.2	910.1	920.3
5°	1001.8	997.5	973.8	949.2	930.5	922.0	909.3	892.3	890.6	875.4	873.7
7.5°	1034.0	1019.6	978.0	951.7	914.4	893.2	865.2	856.7	845.7	840.6	851.6
10°	1084.0	1047.6	985.6	919.5	873.7	848.2	827.9	821.9	822.8	819.4	814.3
12.5°	1119.7	1084.9	972.9	892.3	833.0	808.4	806.7	812.6	821.9	817.7	823.6
15°	1170.5	1105.2	963.6	847.4	799.9	793.1	792.2	810.1	809.2	809.2	808.4
17.5°	1218.0	1125.6	929.7	808.4	765.1	770.2	776.1	775.3	783.8	787.2	793.1
20°	1278.3	1149.3	882.2	769.3	738.8	737.1	736.3	737.1	745.6	750.7	746.4
22.5°	1330.9	1154.4	842.3	732.0	707.4	700.6	689.6	700.6	696.4	698.1	703.2
25°	1376.7	1155.3	785.5	704.0	676.0	660.8	652.3	651.4	643.8	643.0	643.0
27.5°	1414.8	1126.4	735.4	665.0	638.7	624.3	623.4	614.1	594.6	581.9	583.6
30°	1444.5	1104.4	700.6	631.1	605.6	603.1	595.5	574.2	548.8	532.7	532.7
32.5°	1497.1	1060.3	653.1	596.3	583.6	580.2	562.4	543.7	520.0	504.7	502.1
35°	1536.1	1019.6	621.7	566.6	560.7	553.9	538.6	518.3	511.5	508.1	510.6
37.5°	1580.2	973.8	583.6	541.2	547.1	534.4	516.6	507.2	531.0	525.0	527.6
40°	1650.6	941.5	546.3	525.9	531.8	517.4	494.5	491.1	520.8	499.6	494.5
42.5°	1779.6	940.7	523.4	503.0	507.2	496.2	475.9	474.2	486.0	460.6	453.0
45°	1939.9	970.4	506.4	486.0	482.6	480.9	474.2	466.5	456.3	423.3	414.8
47.5°	2131.6	1018.7	503.0	460.6	464.8	479.2	470.8	451.3	425.0	403.8	399.5
50°	2364.0	1118.8	494.5	441.9	449.6	472.5	465.7	438.5	414.8	401.2	398.7
52.5°	2621.0	1245.2	483.5	413.1	430.0	466.5	469.9	444.5	409.7	397.8	396.1
55°	2923.8	1431.8	470.8	381.7	407.1	460.6	469.9	427.5	402.9	402.9	401.2
57.5°	3521.8	1767.7	444.5	352.9	386.8	449.6	456.3	428.4	403.8	403.8	400.4
60°	4398.9	2291.9	394.4	330.8	367.3	434.3	446.2	415.6	394.4	399.5	398.7
62.5°	5085.1	2451.4	352.0	309.6	347.8	406.3	432.6	402.1	383.4	402.1	403.8
65°	5231.8	2290.2	308.8	286.7	320.6	379.2	413.1	382.5	367.3	403.8	405.5
66°	5179.2	2164.7	293.5	279.9	308.8	365.6	401.2	375.8	358.8	402.1	402.9
67.5°	4945.1	1976.4	276.5	265.5	292.6	346.1	387.6	366.4	345.2	397.0	389.3
70°	4436.2	1676.1	247.7	240.0	269.7	313.8	356.3	342.7	324.0	365.6	352.0
72.5°	3416.6	1339.3	217.1	218.0	243.4	280.8	324.9	315.5	299.4	320.6	312.1
75°	2080.7	855.9	189.2	190.9	212.1	249.4	295.2	288.4	268.9	280.8	276.5
77.5°	922.0	424.1	159.5	162.9	179.8	219.7	257.0	246.0	225.6	228.2	226.5
80°	357.9	201.0	129.8	134.0	145.0	175.6	212.9	202.7	184.9	181.5	179.8
82.5°	172.2	112.0	100.1	101.8	106.0	140.0	183.2	170.5	146.7	131.5	131.5
85°	86.5	69.6	70.4	64.5	70.4	95.0	123.8	103.5	85.7	76.3	78.0
87.5°	34.8	34.8	34.8	29.7	31.4	45.0	57.7	39.0	35.6	21.2	21.2
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)