

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: P478697

Luminaire Tested: **IFLD-S-SA2A-830-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478697  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-830-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

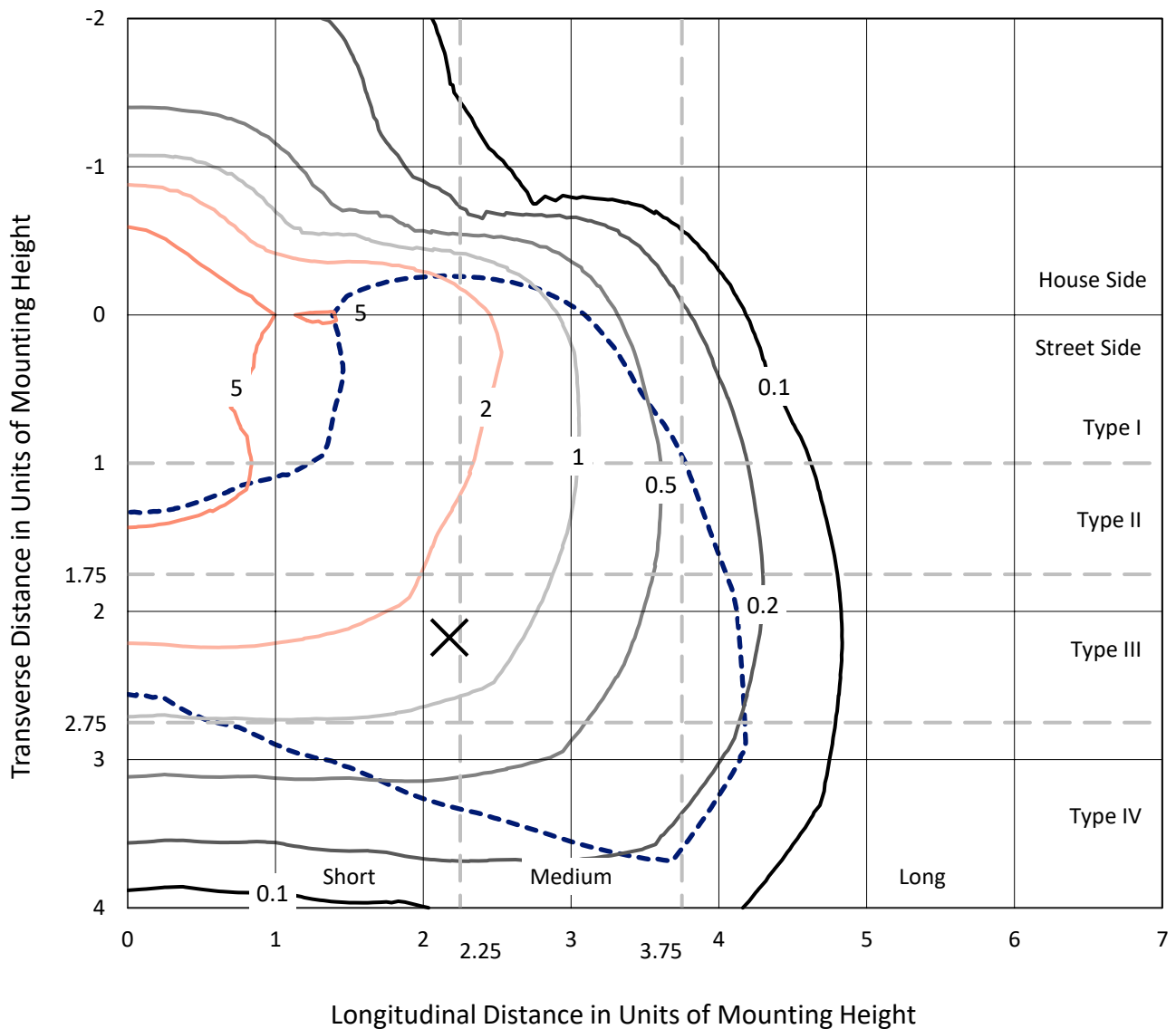
Lumens per Lamp: N/A  
Luminaire Lumens: 7415 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

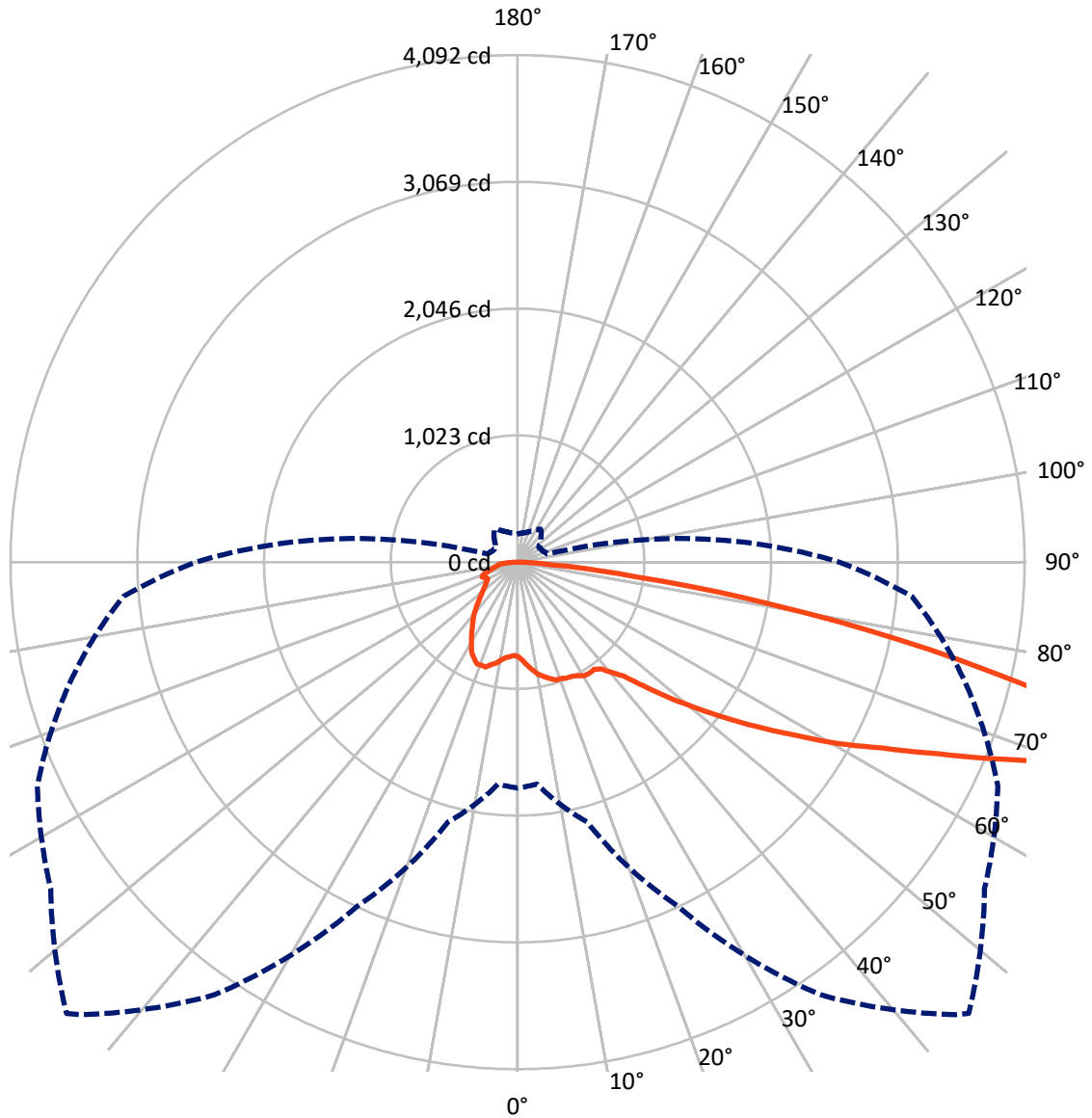
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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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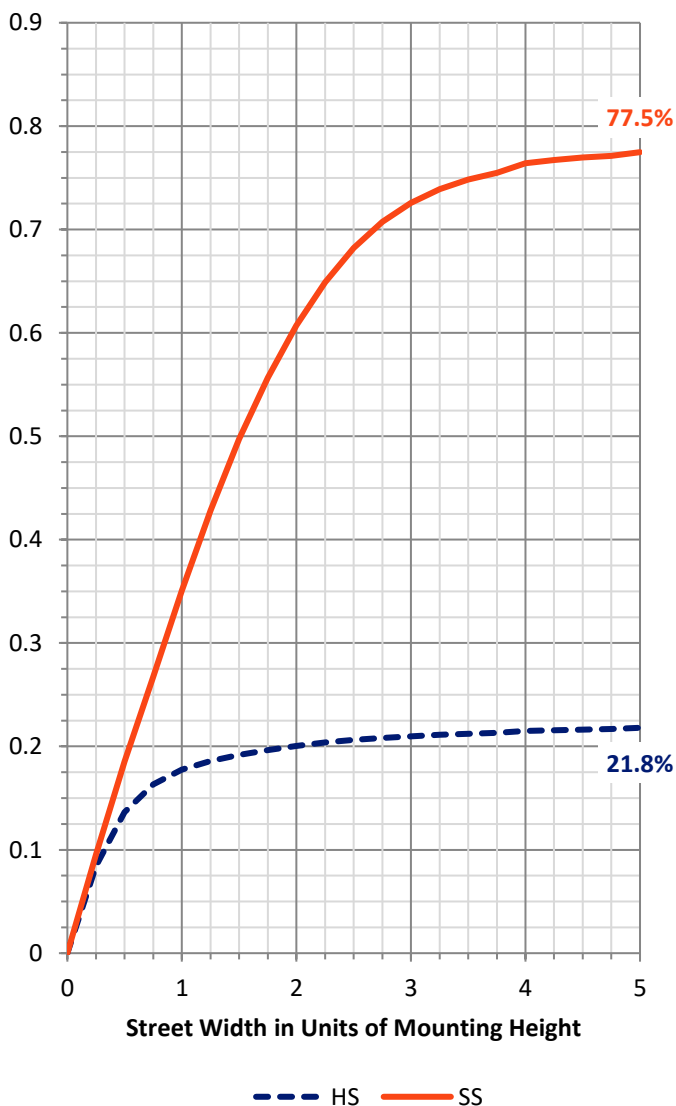
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1650.6	0.0	1650.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	5764.4	0.0	5764.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	7415.0	0.0	7415.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	1.1
10°-20°	260.0	3.5
20°-30°	439.0	5.9
30°-40°	607.5	8.2
40°-50°	869.0	11.7
50°-60°	1401.6	18.9
60°-70°	2067.2	27.9
70°-80°	1501.1	20.2
80°-90°	191.4	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°	7415.0	100.0
0°-180°	7415.0	100.0

**Coefficient of Utilization**



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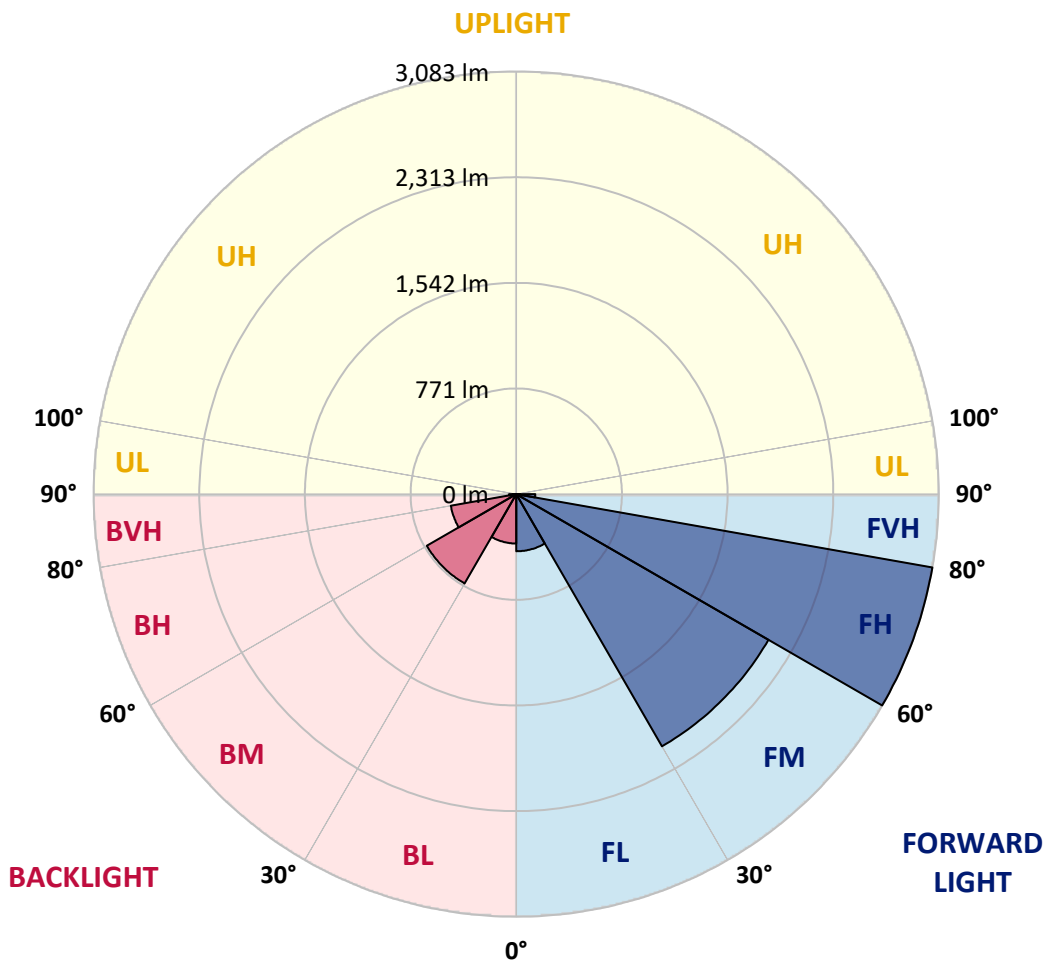
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.7	5.6			
FM (30°-60°)	2124.9	28.7			
FH (60°-80°)	3083.5	41.6			G2/5000
FVH (80°-90°)	139.3	1.9			G2/225
BL (0°-30°)	360.4	4.9	B1/500		
BM (30°-60°)	753.3	10.2	B1/1000		
BH (60°-80°)	484.9	6.5	B1/500		G1/500
BVH (80°-90°)	52.1	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°	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6
2.5°	804.4	809.2	804.4	803.6	795.6	790.0	794.8	787.6	779.6	776.4	769.2
5°	878.0	878.8	870.0	870.8	854.0	836.4	839.6	818.0	794.8	786.0	771.6
7.5°	953.1	944.3	931.5	927.5	901.1	882.0	879.6	860.4	824.4	804.4	784.4
10°	1001.9	1005.1	984.3	966.7	944.3	921.1	920.3	884.3	863.6	834.0	808.4
12.5°	1045.1	1045.9	1028.3	1000.3	972.3	943.5	947.5	931.5	896.3	868.4	842.8
15°	1078.7	1073.9	1054.7	1029.1	999.5	977.1	974.7	961.1	931.5	908.3	866.0
17.5°	1088.2	1085.8	1066.7	1039.5	1010.7	993.9	1000.3	977.9	965.9	945.1	904.3
20°	1069.9	1064.3	1061.1	1030.7	1009.9	1008.3	1002.7	1007.5	987.5	968.3	938.7
22.5°	1036.3	1033.9	1032.3	1008.3	998.7	1005.9	1015.5	1022.7	1019.5	1001.1	967.5
25°	1001.9	1013.1	1002.7	991.5	1005.1	1023.5	1021.1	1044.3	1044.3	1038.7	1010.7
27.5°	1025.9	1018.7	1010.7	1005.1	1009.9	1038.7	1037.1	1065.1	1075.5	1065.1	1033.1
30°	1085.8	1078.7	1055.5	1030.7	1024.3	1055.5	1063.5	1088.2	1093.0	1067.5	1040.3
32.5°	1198.6	1194.6	1157.8	1085.0	1045.9	1063.5	1067.5	1095.4	1091.4	1075.5	1064.3
35°	1365.7	1352.1	1300.9	1177.8	1091.4	1073.9	1063.5	1085.8	1101.0	1093.0	1082.6
37.5°	1548.8	1533.6	1470.5	1314.5	1173.8	1101.8	1093.8	1112.2	1129.8	1125.8	1104.2
40°	1723.9	1723.9	1667.2	1485.6	1296.1	1169.8	1171.4	1150.6	1166.6	1159.4	1163.4
42.5°	1896.6	1890.2	1867.0	1686.3	1427.3	1283.3	1257.8	1205.8	1234.6	1232.2	1237.8
45°	2071.7	2066.9	2060.5	1873.4	1615.2	1436.9	1423.3	1329.7	1356.1	1344.9	1368.9
47.5°	2211.7	2217.3	2217.3	2082.1	1815.9	1641.6	1621.6	1473.6	1524.0	1529.6	1535.2
50°	2330.8	2333.2	2330.8	2281.2	2039.8	1875.8	1835.1	1684.7	1735.1	1779.1	1830.3
52.5°	2495.5	2498.7	2487.5	2468.3	2343.6	2122.1	2076.5	1909.4	2012.6	2059.0	2150.9
55°	2698.6	2674.6	2653.8	2668.2	2635.5	2393.2	2346.0	2141.3	2296.4	2358.0	2541.9
57.5°	2736.2	2757.0	2809.8	2924.1	2971.3	2657.0	2629.9	2426.0	2617.1	2670.6	2977.7
60°	2868.9	2834.6	2964.1	3212.0	3264.7	3000.9	2972.9	2737.8	2936.1	2992.1	3379.9
62.5°	2956.1	2954.5	3146.4	3440.6	3560.6	3357.5	3300.7	3143.2	3280.7	3335.1	3818.1
65°	2930.5	2953.7	3294.3	3575.0	3807.7	3762.9	3730.1	3491.8	3673.3	3668.5	4103.5
67.5°	2697.0	2762.6	3200.8	3671.7	4175.5	4257.0	4246.6	3982.0	3992.4	3890.8	4230.6
70°	2373.2	2350.8	2805.0	3571.0	4359.4	4843.1	4840.7	4346.6	4279.4	3939.6	3866.0
72°	1823.1	1798.3	2171.7	3066.4	4262.6	5077.4	5149.4	4599.3	4276.2	3737.3	3193.6
72.5°	1655.2	1633.6	2005.4	2886.5	4155.5	5138.2	5104.6	4608.9	4242.6	3642.1	2983.3
75°	762.0	737.2	1001.9	1767.1	3241.5	4552.9	4667.2	4313.0	3705.3	2899.3	1787.1
77.5°	227.1	219.9	322.2	713.2	1883.8	3354.3	3398.3	3254.3	2586.7	1588.0	662.9
80°	126.3	127.1	166.3	267.1	828.4	1939.0	2097.3	2010.2	1269.0	524.5	220.7
82.5°	70.4	74.4	103.9	158.3	380.6	889.9	957.9	923.5	459.0	246.3	120.7
85°	36.8	38.4	54.4	84.8	215.9	281.5	289.5	310.2	238.3	167.9	64.8
87.5°	14.4	14.4	20.0	35.2	80.0	87.2	78.4	95.2	136.7	108.7	32.0
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°	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6	763.6
2.5°	775.6	769.2	768.4	758.0	761.2	752.4	753.2	751.6	752.4	750.8	746.8
5°	771.6	766.8	753.2	762.0	754.0	765.2	774.0	770.8	773.2	772.4	773.2
7.5°	777.2	770.8	769.2	764.4	771.6	776.4	783.6	803.6	802.0	804.4	809.2
10°	794.0	786.8	782.0	789.2	785.2	800.4	808.4	818.8	837.2	838.0	828.4
12.5°	826.8	822.0	812.4	814.0	827.6	832.4	837.2	843.6	855.6	853.2	862.0
15°	864.4	854.0	848.4	846.8	850.0	855.6	854.8	861.2	867.6	873.2	870.8
17.5°	891.5	878.0	879.6	887.5	886.7	885.1	874.8	871.6	874.8	878.0	876.4
20°	919.5	921.1	909.1	901.9	898.7	882.8	874.8	865.2	855.6	860.4	867.6
22.5°	954.7	947.5	929.9	908.3	892.3	882.8	858.0	841.2	841.2	846.0	843.6
25°	994.7	979.5	949.1	909.9	889.9	849.2	831.6	829.2	822.8	830.0	833.2
27.5°	1025.9	1012.3	970.7	904.3	849.2	816.4	806.0	802.8	813.2	814.0	826.8
30°	1038.7	1034.7	973.9	889.9	807.6	754.8	748.4	762.8	774.0	790.8	791.6
32.5°	1055.5	1057.1	978.7	856.4	753.2	700.4	690.8	708.4	740.4	754.0	764.4
35°	1083.4	1091.4	974.7	814.8	695.6	645.3	643.7	648.5	679.7	703.6	717.2
37.5°	1132.2	1130.6	973.9	765.2	650.1	597.3	584.5	586.1	606.9	626.9	624.5
40°	1197.8	1191.4	971.5	700.4	590.9	556.5	534.9	526.9	525.3	519.7	521.3
42.5°	1287.3	1274.6	970.7	634.9	537.3	500.5	485.4	464.6	449.4	420.6	422.2
45°	1412.1	1389.7	949.9	573.3	484.6	454.2	431.0	415.8	383.0	347.0	347.0
47.5°	1604.8	1532.0	950.7	505.3	433.4	408.6	392.6	366.2	331.0	302.2	299.0
50°	1888.6	1722.3	923.5	451.8	391.8	375.0	358.2	327.8	294.3	274.3	276.7
52.5°	2254.9	2006.2	922.7	403.8	359.0	347.0	328.6	301.4	276.7	263.9	259.1
55°	2691.4	2382.0	951.5	364.6	325.4	319.0	311.0	288.7	264.7	253.5	252.7
57.5°	3138.4	2749.0	997.9	336.6	296.6	301.4	295.8	278.3	259.1	246.3	244.7
60°	3535.8	3040.1	904.3	303.0	271.1	281.5	289.5	274.3	263.9	263.1	257.5
62.5°	3835.6	3164.8	687.6	277.5	257.5	276.7	298.2	307.8	303.0	309.4	310.2
65°	3945.2	3089.6	473.4	263.9	247.1	287.9	335.8	332.6	304.6	292.7	299.0
67.5°	3791.7	2785.0	351.0	247.9	239.9	311.0	357.4	317.4	275.1	273.5	268.7
70°	3260.7	2360.4	286.3	231.1	227.9	298.2	347.8	294.3	259.1	248.7	243.9
72°	2597.9	1838.3	251.1	219.1	208.7	266.3	325.4	275.9	245.5	232.7	227.1
72.5°	2371.6	1703.9	246.3	213.5	204.7	259.1	314.2	270.3	242.3	231.1	222.3
75°	1300.9	872.4	216.7	195.9	172.7	223.9	291.1	253.5	228.7	212.7	211.1
77.5°	483.8	338.2	187.1	173.5	149.5	193.5	264.7	240.7	207.9	187.9	183.9
80°	185.5	178.3	152.7	146.3	125.5	169.5	243.9	215.9	176.7	156.7	150.3
82.5°	112.7	103.9	115.9	114.3	96.0	154.3	229.5	202.3	156.7	127.1	123.1
85°	61.6	61.6	80.8	77.6	67.2	123.1	173.5	134.3	99.1	81.6	83.2
87.5°	27.2	32.0	43.2	40.8	36.8	69.6	84.8	71.2	49.6	33.6	36.0
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)