

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: P481508

Luminaire Tested: **IFLD-S-SA2D-722-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481508  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-722-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

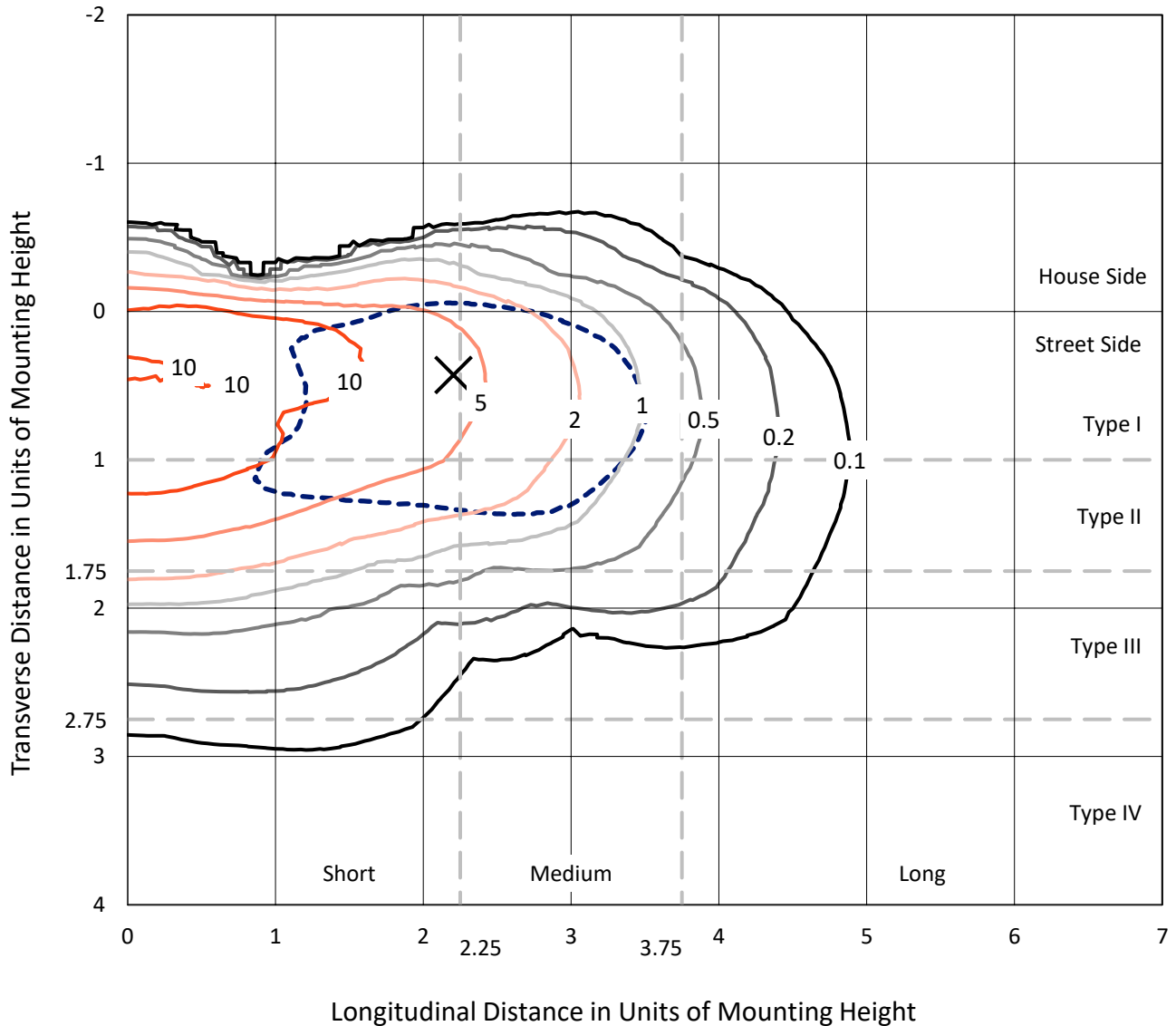
Lumens per Lamp: N/A  
Luminaire Lumens: 8296 lumens  
Efficiency: N/A  
Efficacy: 67.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
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

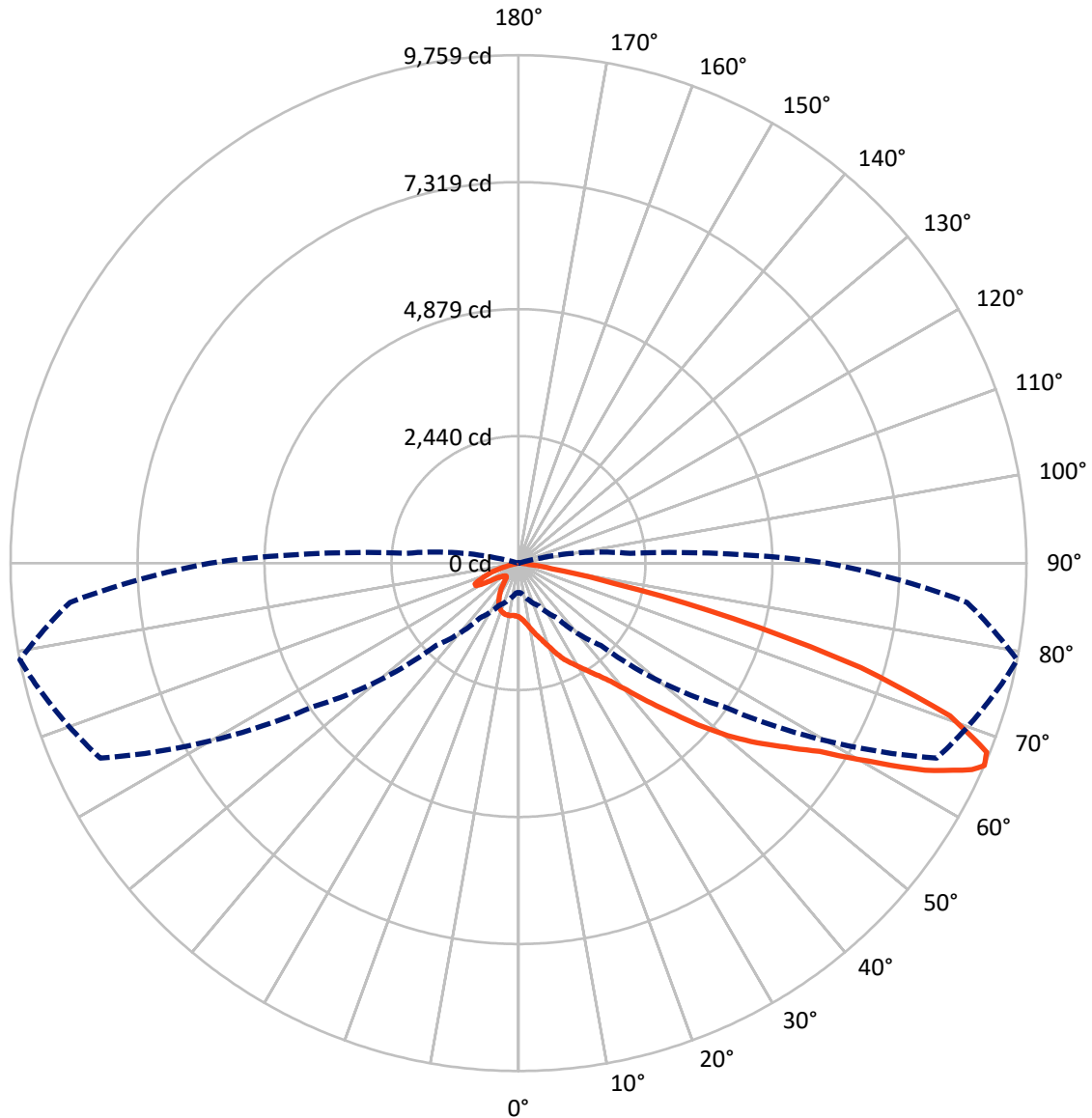
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 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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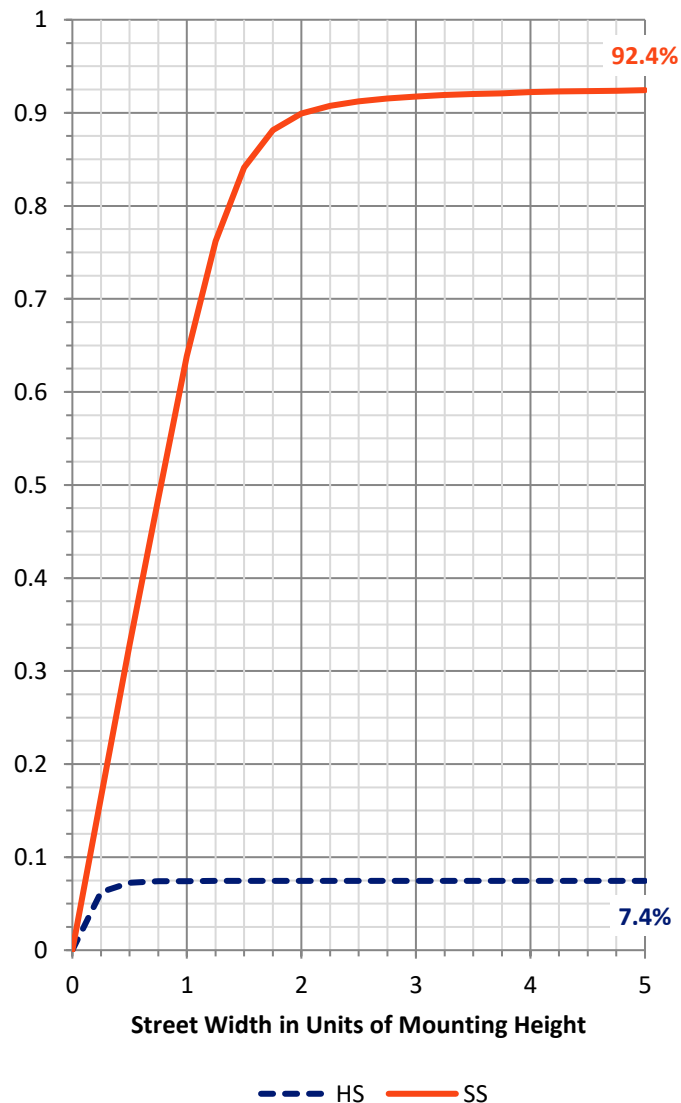
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	622.9	0.0	622.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	7673.1	0.0	7673.1
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	8296.0	0.0	8296.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.6	1.2
10°-20°	268.6	3.2
20°-30°	446.3	5.4
30°-40°	766.5	9.2
40°-50°	1388.7	16.7
50°-60°	2195.1	26.5
60°-70°	2233.7	26.9
70°-80°	851.8	10.3
80°-90°	47.8	0.6
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°	8296.0	100.0
0°-180°	8296.0	100.0

**Coefficient of Utilization**



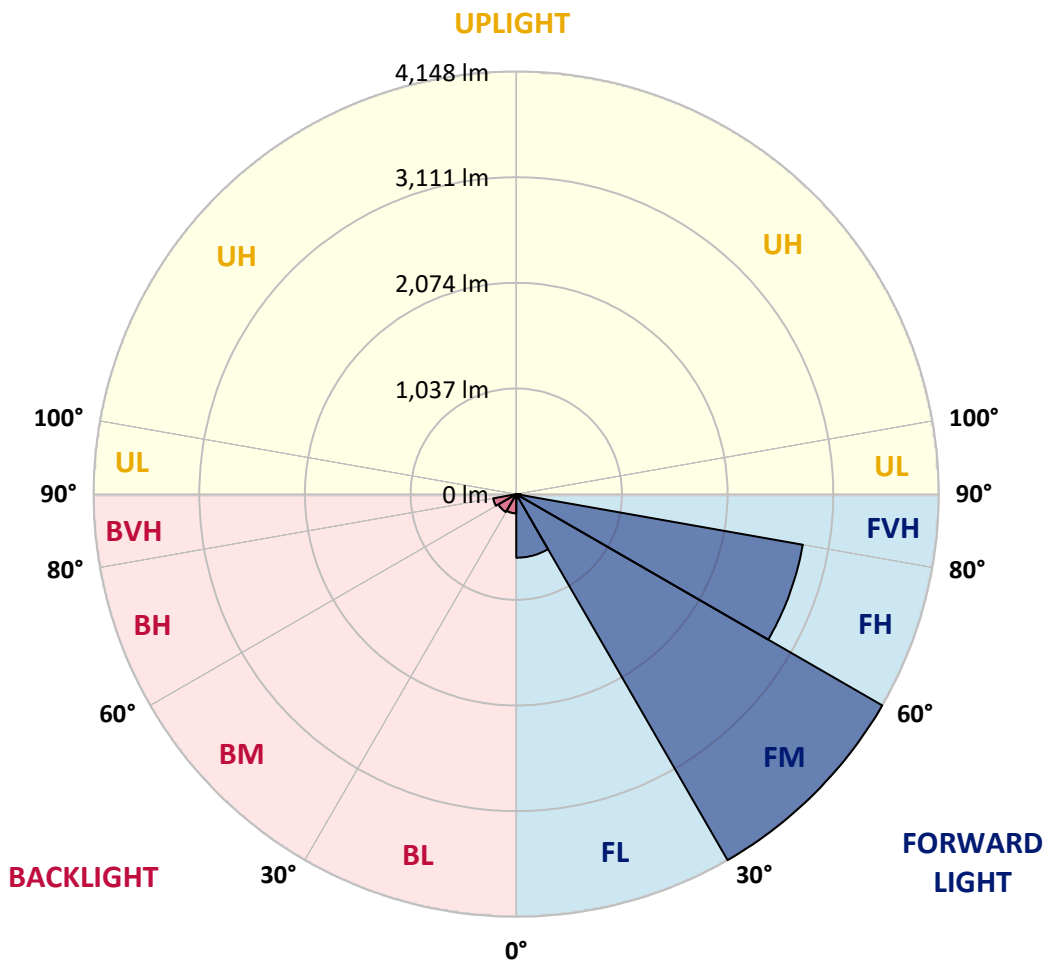
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.1	7.5			
FM (30°-60°)	4147.8	50.0			
FH (60°-80°)	2855.8	34.4			G2/5000
FVH (80°-90°)	45.3	0.5			G1/100
BL (0°-30°)	188.4	2.3	B1/500		
BM (30°-60°)	202.5	2.4	B0/220		
BH (60°-80°)	229.6	2.8	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
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°	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1
2.5°	1169.0	1167.7	1162.6	1153.6	1142.1	1138.3	1121.7	1098.6	1085.8	1071.8	1065.4
5°	1249.6	1243.2	1258.5	1252.1	1254.7	1224.0	1203.5	1186.9	1138.3	1119.1	1088.4
7.5°	1267.5	1273.9	1272.6	1282.8	1293.0	1304.5	1290.5	1266.2	1217.6	1189.4	1156.2
10°	1267.5	1264.9	1275.1	1289.2	1318.6	1344.2	1382.6	1350.6	1313.5	1280.2	1220.1
12.5°	1244.4	1240.6	1250.8	1280.2	1332.7	1385.1	1427.3	1458.0	1405.6	1378.7	1300.7
15°	1174.1	1170.3	1212.5	1264.9	1334.0	1419.7	1507.9	1557.8	1522.0	1479.8	1392.8
17.5°	1087.1	1092.2	1137.0	1224.0	1334.0	1436.3	1548.8	1657.5	1652.4	1598.7	1507.9
20°	1057.7	1061.5	1106.3	1169.0	1294.3	1447.8	1612.8	1766.3	1797.0	1733.0	1614.1
22.5°	1114.0	1110.1	1114.0	1152.4	1267.5	1437.6	1655.0	1890.3	1945.3	1895.4	1753.5
25°	1305.8	1303.3	1271.3	1212.5	1252.1	1414.5	1676.7	1972.2	2098.8	2052.7	1866.0
27.5°	1587.2	1577.0	1527.1	1404.3	1323.7	1428.6	1712.5	2051.5	2233.1	2180.6	1967.1
30°	1889.0	1864.7	1799.5	1646.0	1509.2	1481.0	1733.0	2110.3	2382.7	2316.2	2055.3
32.5°	2097.5	2129.5	2109.0	1953.0	1743.2	1602.5	1766.3	2184.5	2520.8	2477.4	2206.2
35°	2419.8	2456.9	2371.2	2233.1	2022.0	1795.7	1836.6	2244.6	2733.2	2660.3	2346.9
37.5°	2826.5	2854.7	2793.3	2531.1	2308.5	2033.6	1981.1	2369.9	2916.0	2881.5	2527.2
40°	3031.2	3166.7	3079.8	2843.1	2604.0	2366.1	2220.3	2517.0	3234.5	3206.4	2776.6
42.5°	3313.8	3381.6	3336.8	3161.6	2912.2	2721.6	2515.7	2803.5	3620.8	3620.8	3114.3
45°	3613.1	3615.6	3613.1	3469.8	3248.6	3150.1	2914.8	3162.9	4036.4	4082.5	3518.4
47.5°	3858.6	3935.4	3929.0	3843.3	3671.9	3634.8	3313.8	3572.2	4558.2	4638.8	3912.4
50°	3985.3	4071.0	4096.5	4141.3	4133.6	4211.6	3749.9	4046.7	5008.4	5206.7	4418.8
52.5°	3950.7	3957.1	4114.4	4290.9	4572.3	4791.0	4275.6	4585.1	5535.4	5731.1	4810.2
55°	3668.1	3643.8	3967.4	4169.4	4751.4	5145.3	5003.3	5256.6	5945.9	6243.9	5214.4
57.5°	3047.8	3054.2	3353.5	3764.0	4618.4	5286.0	5780.9	6133.9	6521.5	6822.0	5782.2
60°	2103.9	2096.2	2431.3	2905.8	3836.9	5023.8	6228.6	7270.9	7291.4	7717.3	6801.6
62.5°	1183.0	1185.6	1440.1	1845.6	2684.6	4105.5	6206.8	8478.3	8391.3	8764.8	7960.3
65°	670.2	686.8	862.0	1093.5	1607.7	2756.2	5338.4	8959.2	9239.3	9571.8	8663.7
66°	566.6	578.1	727.7	903.0	1282.8	2235.6	4805.1	8865.8	9505.3	9758.5	8649.7
67.5°	438.7	454.0	579.4	716.2	941.3	1547.6	3867.6	8401.5	9553.9	9702.3	8405.4
70°	300.6	310.8	406.7	543.6	643.3	791.7	2312.4	6946.1	8668.8	8794.2	7305.5
72.5°	211.0	216.1	285.2	411.8	495.0	452.8	1147.2	4941.9	6634.0	6878.3	5682.5
75°	152.2	157.3	195.7	295.4	386.2	296.7	525.7	3156.5	4068.4	4260.2	3422.5
77.5°	110.0	116.4	133.0	190.6	280.1	208.5	258.4	1648.6	1918.5	1885.2	1472.1
80°	66.5	72.9	98.5	122.8	204.6	147.1	142.0	688.1	680.4	645.9	463.0
82.5°	30.7	35.8	52.4	83.1	143.2	102.3	67.8	245.6	214.9	197.0	130.5
85°	9.0	11.5	30.7	62.7	72.9	49.9	40.9	84.4	88.2	75.5	43.5
87.5°	0.0	1.3	14.1	15.3	21.7	16.6	15.3	21.7	40.9	33.3	14.1
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°	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1	1032.1
2.5°	1042.4	1033.4	1011.7	978.4	949.0	933.6	911.9	892.7	882.5	881.2	879.9
5°	1067.9	1043.6	991.2	931.1	886.3	837.7	804.5	780.2	757.1	735.4	748.2
7.5°	1102.5	1064.1	978.4	900.4	803.2	740.5	681.7	647.2	626.7	607.5	605.0
10°	1156.2	1107.6	969.5	828.8	717.5	625.4	565.3	515.4	487.3	454.0	466.8
12.5°	1229.1	1142.1	936.2	763.5	620.3	523.1	437.4	356.8	312.1	277.5	278.8
15°	1302.0	1188.2	905.5	684.2	532.1	404.2	278.8	223.8	211.0	203.4	205.9
17.5°	1373.6	1225.3	858.2	603.7	431.0	257.1	203.4	191.8	185.5	177.8	177.8
20°	1460.6	1249.6	799.4	529.5	296.7	190.6	173.9	166.3	156.0	145.8	147.1
22.5°	1545.0	1270.0	731.6	434.8	199.5	165.0	145.8	135.6	126.6	116.4	116.4
25°	1629.4	1276.4	643.3	312.1	161.2	131.7	113.8	99.8	90.8	81.9	83.1
27.5°	1687.0	1236.8	560.2	199.5	129.2	99.8	79.3	67.8	60.1	51.2	51.2
30°	1720.2	1163.9	470.7	140.7	97.2	67.8	47.3	35.8	28.1	21.7	20.5
32.5°	1753.5	1105.0	369.6	107.4	63.9	35.8	17.9	6.4	0.0	0.0	0.0
35°	1820.0	1038.5	248.1	60.1	21.7	1.3	0.0	0.0	0.0	0.0	0.0
37.5°	1862.2	946.4	113.8	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1968.3	900.4	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2141.0	868.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2330.3	855.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2582.2	890.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2848.3	983.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3139.9	1071.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3394.4	1177.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3862.5	1428.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4702.8	1921.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5649.2	2286.8	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5995.8	2277.8	24.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5934.4	2152.5	24.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5616.0	1912.1	21.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4823.0	1579.5	21.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3677.0	1230.4	20.5	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2219.0	654.8	16.6	6.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	883.8	230.2	12.8	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	239.2	69.1	7.7	5.1	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	62.7	25.6	6.4	5.1	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	24.3	10.2	5.1	3.8	3.8	2.6	1.3	0.0	0.0	0.0	0.0
87.5°	7.7	3.8	3.8	2.6	2.6	1.3	1.3	0.0	0.0	0.0	0.0
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)