

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: P481510

Luminaire Tested: **IFLD-S-SA3A-722-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481510  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-722-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

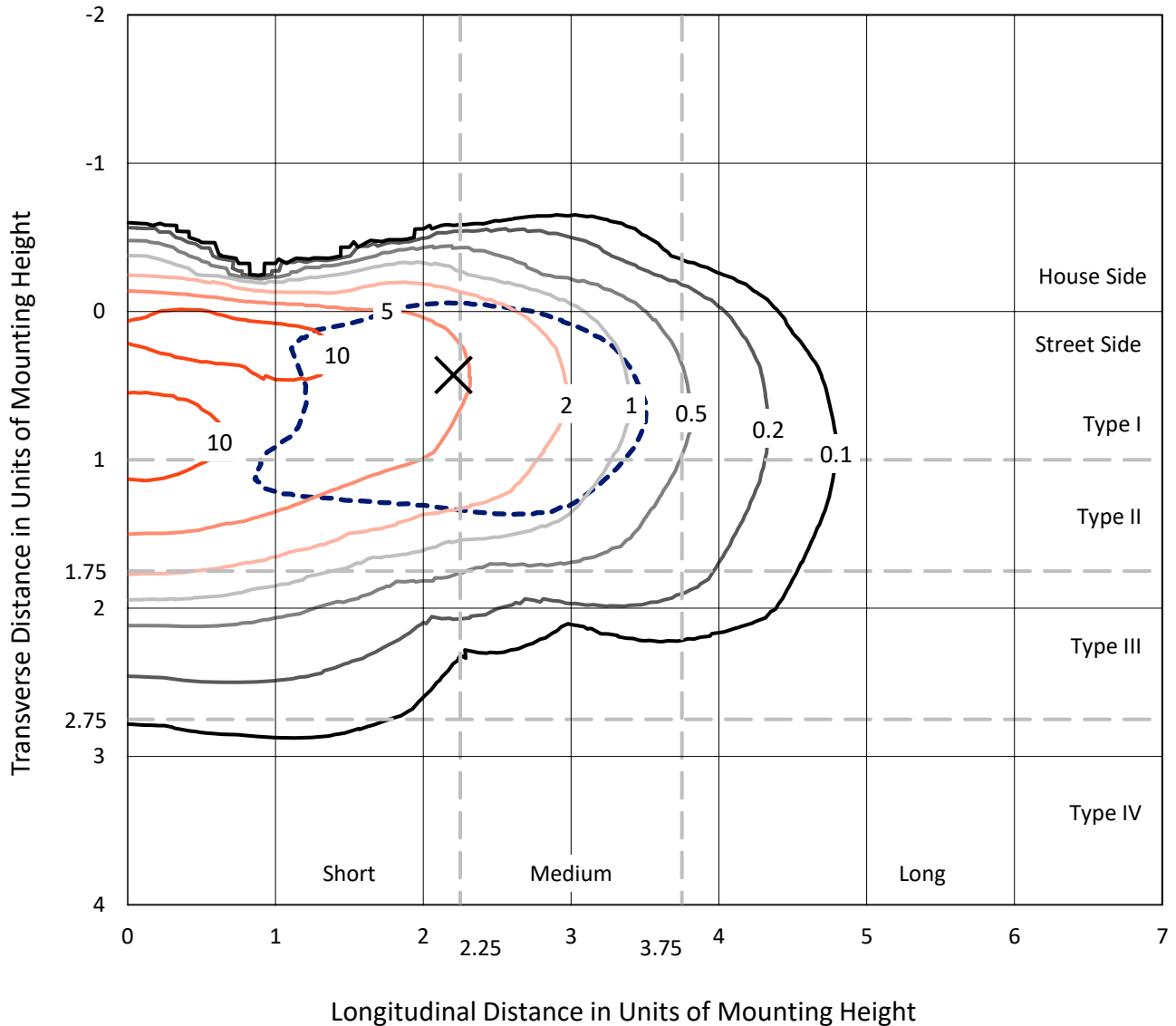
Lumens per Lamp: N/A  
Luminaire Lumens: 7298.3 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
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

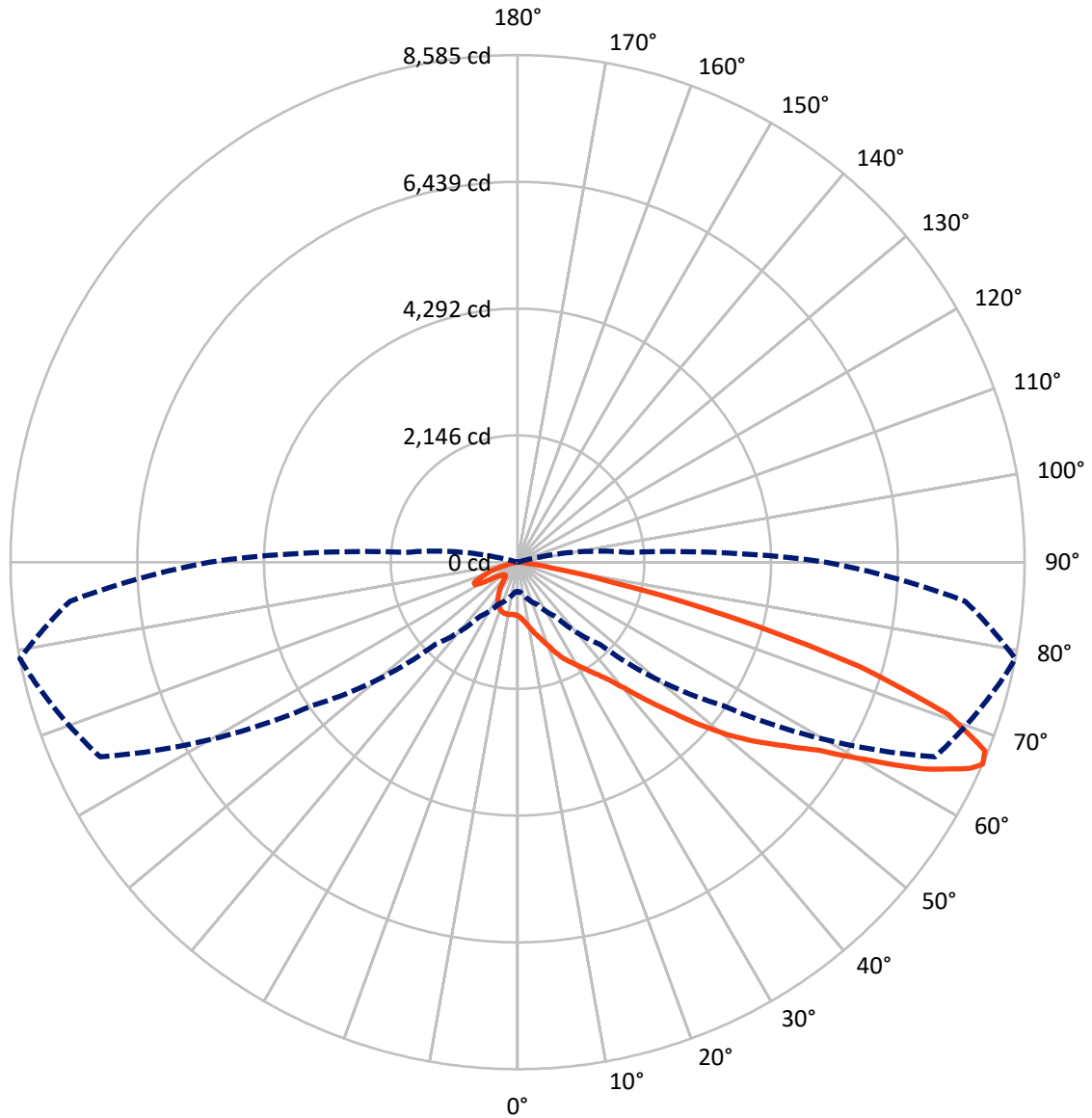
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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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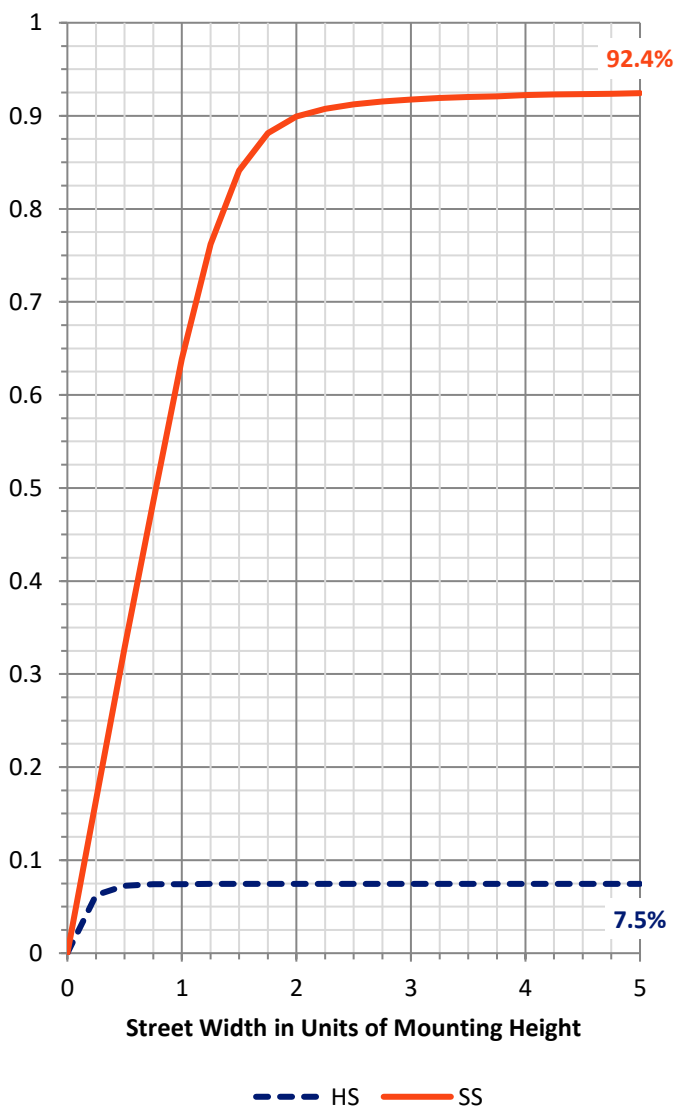
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	548.0	0.0	548.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	6750.3	0.0	6750.3
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	7298.3	0.0	7298.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	1.2
10°-20°	236.3	3.2
20°-30°	392.6	5.4
30°-40°	674.3	9.2
40°-50°	1221.7	16.7
50°-60°	1931.1	26.5
60°-70°	1965.0	26.9
70°-80°	749.4	10.3
80°-90°	42.0	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°	7298.3	100.0
0°-180°	7298.3	100.0

**Coefficient of Utilization**



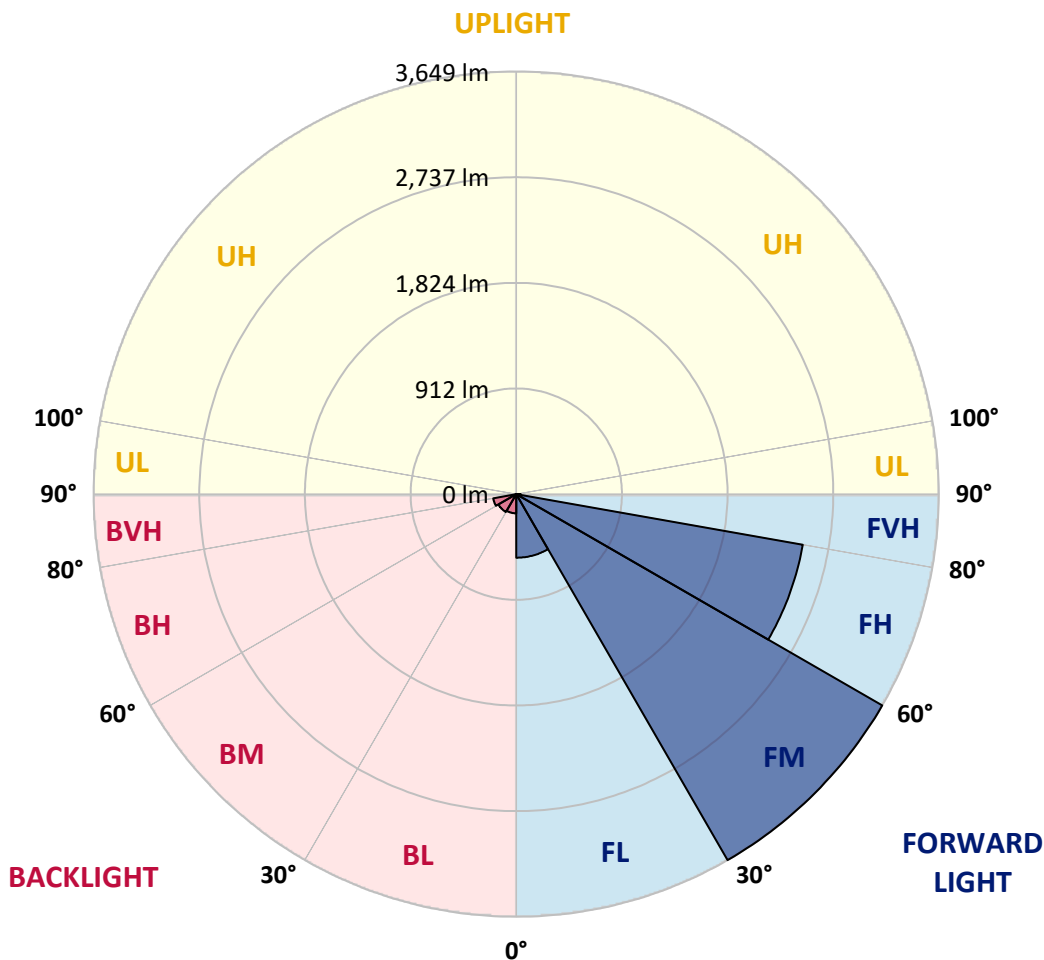
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.1	7.5			
FM (30°-60°)	3649.0	50.0			
FH (60°-80°)	2512.4	34.4			G2/5000
FVH (80°-90°)	39.9	0.5			G1/100
BL (0°-30°)	165.7	2.3	B1/500		
BM (30°-60°)	178.1	2.4	B0/220		
BH (60°-80°)	202.0	2.8	B1/500		G1/500
BVH (80°-90°)	2.2	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°	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0
2.5°	1028.4	1027.3	1022.8	1014.9	1004.8	1001.4	986.8	966.5	955.2	942.9	937.2
5°	1099.3	1093.6	1107.1	1101.5	1103.8	1076.8	1058.8	1044.1	1001.4	984.5	957.5
7.5°	1115.0	1120.6	1119.5	1128.5	1137.5	1147.6	1135.3	1113.9	1071.1	1046.4	1017.1
10°	1115.0	1112.8	1121.8	1134.1	1160.0	1182.5	1216.3	1188.2	1155.5	1126.3	1073.4
12.5°	1094.8	1091.4	1100.4	1126.3	1172.4	1218.5	1255.7	1282.7	1236.5	1212.9	1144.3
15°	1032.9	1029.5	1066.6	1112.8	1173.5	1248.9	1326.5	1370.4	1338.9	1301.8	1225.3
17.5°	956.4	960.9	1000.3	1076.8	1173.5	1263.5	1362.5	1458.2	1453.7	1406.4	1326.5
20°	930.5	933.9	973.2	1028.4	1138.6	1273.7	1418.8	1553.8	1580.8	1524.6	1419.9
22.5°	980.0	976.6	980.0	1013.8	1115.0	1264.7	1455.9	1663.0	1711.3	1667.5	1542.6
25°	1148.8	1146.5	1118.4	1066.6	1101.5	1244.4	1475.1	1735.0	1846.4	1805.9	1641.6
27.5°	1396.3	1387.3	1343.4	1235.4	1164.5	1256.8	1506.6	1804.7	1964.5	1918.4	1730.5
30°	1661.8	1640.5	1583.1	1448.1	1327.7	1302.9	1524.6	1856.5	2096.1	2037.6	1808.1
32.5°	1845.2	1873.4	1855.4	1718.1	1533.6	1409.8	1553.8	1921.7	2217.7	2179.4	1940.9
35°	2128.8	2161.4	2086.0	1964.5	1778.9	1579.7	1615.7	1974.6	2404.4	2340.3	2064.6
37.5°	2486.6	2511.3	2457.3	2226.7	2030.9	1789.0	1742.8	2084.9	2565.3	2535.0	2223.3
40°	2666.6	2785.9	2709.3	2501.2	2290.8	2081.5	1953.3	2214.3	2845.5	2820.7	2442.7
42.5°	2915.2	2974.9	2935.5	2781.4	2562.0	2394.3	2213.2	2466.3	3185.3	3185.3	2739.7
45°	3178.5	3180.8	3178.5	3052.5	2857.9	2771.2	2564.2	2782.5	3551.0	3591.5	3095.3
47.5°	3394.6	3462.1	3456.4	3381.1	3230.3	3197.7	2915.2	3142.5	4010.0	4080.9	3441.8
50°	3505.9	3581.3	3603.8	3643.2	3636.5	3705.1	3298.9	3560.0	4406.1	4580.5	3887.4
52.5°	3475.6	3481.2	3619.6	3774.9	4022.4	4214.8	3761.4	4033.6	4869.6	5041.8	4231.7
55°	3226.9	3205.5	3490.2	3668.0	4179.9	4526.5	4401.6	4624.3	5230.8	5493.0	4587.2
57.5°	2681.2	2686.8	2950.1	3311.3	4062.9	4650.2	5085.7	5396.2	5737.1	6001.5	5086.8
60°	1850.9	1844.1	2138.9	2556.3	3375.4	4419.6	5479.5	6396.4	6414.4	6789.1	5983.5
62.5°	1040.8	1043.0	1266.9	1623.6	2361.7	3611.7	5460.3	7458.6	7382.1	7710.6	7002.9
65°	589.6	604.2	758.3	962.0	1414.3	2424.7	4696.4	7881.6	8128.0	8420.6	7621.7
66°	498.4	508.6	640.2	794.4	1128.5	1966.8	4227.2	7799.5	8362.1	8584.9	7609.4
67.5°	385.9	399.4	509.7	630.1	828.1	1361.4	3402.4	7391.1	8404.8	8535.3	7394.4
70°	264.4	273.4	357.8	478.2	565.9	696.5	2034.3	6110.7	7626.2	7736.5	6426.8
72.5°	185.6	190.1	250.9	362.3	435.4	398.3	1009.3	4347.6	5836.1	6051.0	4999.0
75°	133.9	138.4	172.1	259.9	339.8	261.0	462.4	2776.9	3579.1	3747.9	3010.9
77.5°	96.8	102.4	117.0	167.6	246.4	183.4	227.3	1450.3	1687.7	1658.5	1295.0
80°	58.5	64.1	86.6	108.0	180.0	129.4	124.9	605.3	598.6	568.2	407.3
82.5°	27.0	31.5	46.1	73.1	126.0	90.0	59.6	216.0	189.0	173.3	114.8
85°	7.9	10.1	27.0	55.1	64.1	43.9	36.0	74.3	77.6	66.4	38.3
87.5°	0.0	1.1	12.4	13.5	19.1	14.6	13.5	19.1	36.0	29.3	12.4
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°	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0	908.0
2.5°	917.0	909.1	890.0	860.7	834.9	821.4	802.2	785.4	776.3	775.2	774.1
5°	939.5	918.1	872.0	819.1	779.7	737.0	707.7	686.3	666.1	647.0	658.2
7.5°	969.9	936.1	860.7	792.1	706.6	651.5	599.7	569.3	551.3	534.4	532.2
10°	1017.1	974.4	852.9	729.1	631.2	550.2	497.3	453.4	428.7	399.4	410.7
12.5°	1081.3	1004.8	823.6	671.7	545.7	460.2	384.8	313.9	274.5	244.2	245.3
15°	1145.4	1045.3	796.6	602.0	468.1	355.5	245.3	196.9	185.6	178.9	181.1
17.5°	1208.4	1077.9	755.0	531.1	379.2	226.2	178.9	168.8	163.1	156.4	156.4
20°	1284.9	1099.3	703.2	465.8	261.0	167.6	153.0	146.3	137.3	128.3	129.4
22.5°	1359.2	1117.3	643.6	382.5	175.5	145.1	128.3	119.3	111.4	102.4	102.4
25°	1433.4	1122.9	565.9	274.5	141.8	115.9	100.1	87.8	79.9	72.0	73.1
27.5°	1484.1	1088.0	492.8	175.5	113.6	87.8	69.8	59.6	52.9	45.0	45.0
30°	1513.3	1023.9	414.1	123.8	85.5	59.6	41.6	31.5	24.8	19.1	18.0
32.5°	1542.6	972.1	325.2	94.5	56.3	31.5	15.8	5.6	0.0	0.0	0.0
35°	1601.1	913.6	218.3	52.9	19.1	1.1	0.0	0.0	0.0	0.0	0.0
37.5°	1638.2	832.6	100.1	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1731.6	792.1	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1883.5	764.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2050.0	752.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2271.7	783.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2505.7	865.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2762.2	942.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2986.1	1036.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3397.9	1256.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4137.2	1690.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4969.8	2011.8	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5274.7	2003.9	21.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5220.7	1893.6	21.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4940.5	1682.1	19.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4242.9	1389.6	19.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3234.8	1082.4	18.0	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1952.1	576.1	14.6	5.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	777.5	202.5	11.3	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	210.4	60.8	6.8	4.5	3.4	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	55.1	22.5	5.6	4.5	2.3	1.1	0.0	0.0	0.0	0.0	0.0
85°	21.4	9.0	4.5	3.4	3.4	2.3	1.1	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	3.4	2.3	2.3	1.1	1.1	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)