

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: P478660

Luminaire Tested: **IFLD-S-SA2C-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478660  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

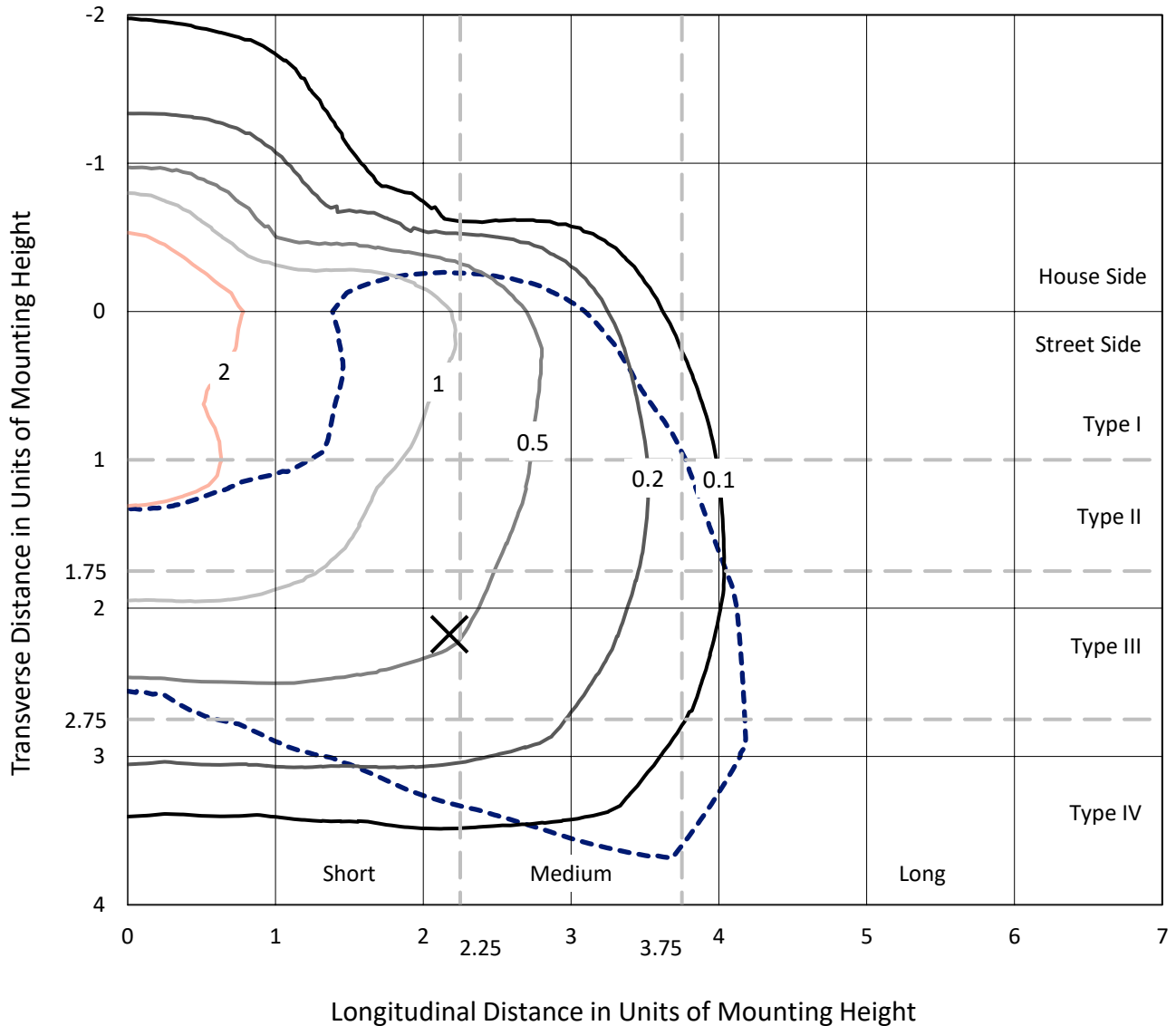
Lumens per Lamp: N/A  
Luminaire Lumens: 10560.9 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2  
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

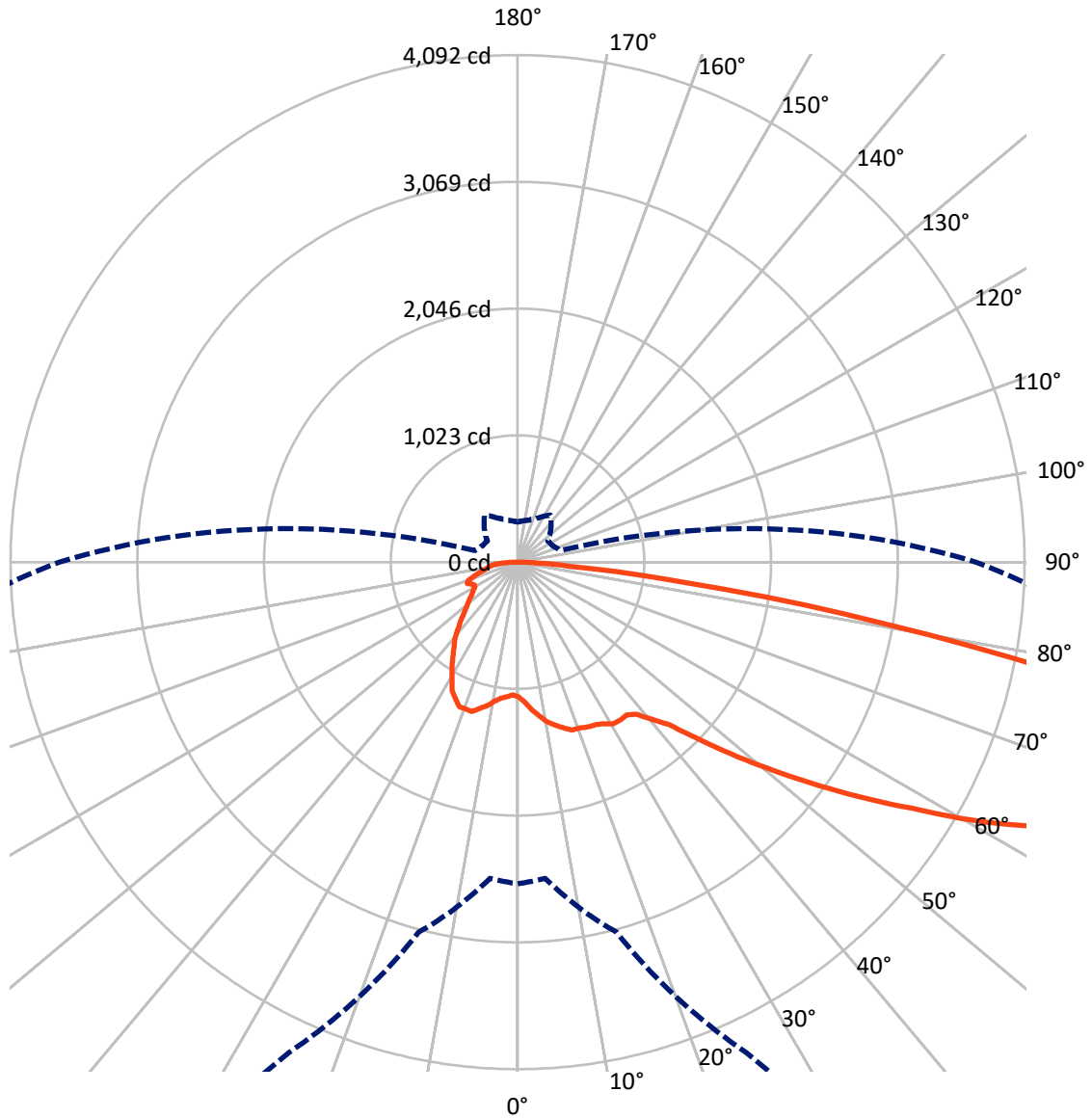
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 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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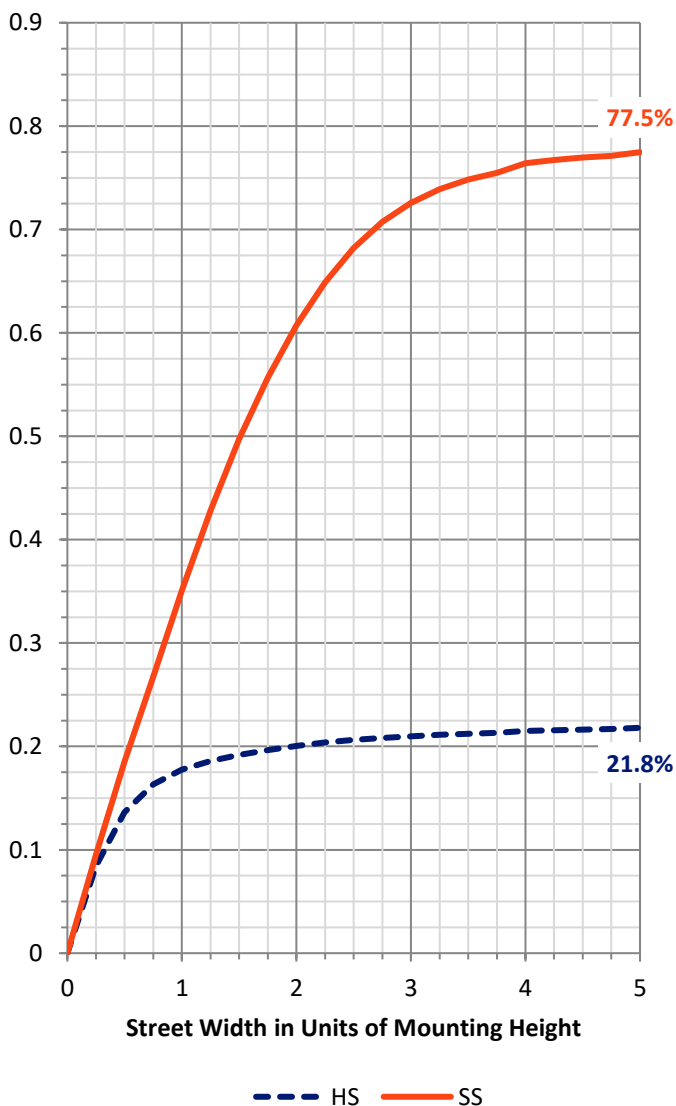
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2350.9	0.0	2350.9
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	8210.0	0.0	8210.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	10560.9	0.0	10560.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.3	1.1
10°-20°	370.3	3.5
20°-30°	625.3	5.9
30°-40°	865.3	8.2
40°-50°	1237.7	11.7
50°-60°	1996.3	18.9
60°-70°	2944.2	27.9
70°-80°	2138.0	20.2
80°-90°	272.5	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°	10560.9	100.0
0°-180°	10560.9	100.0

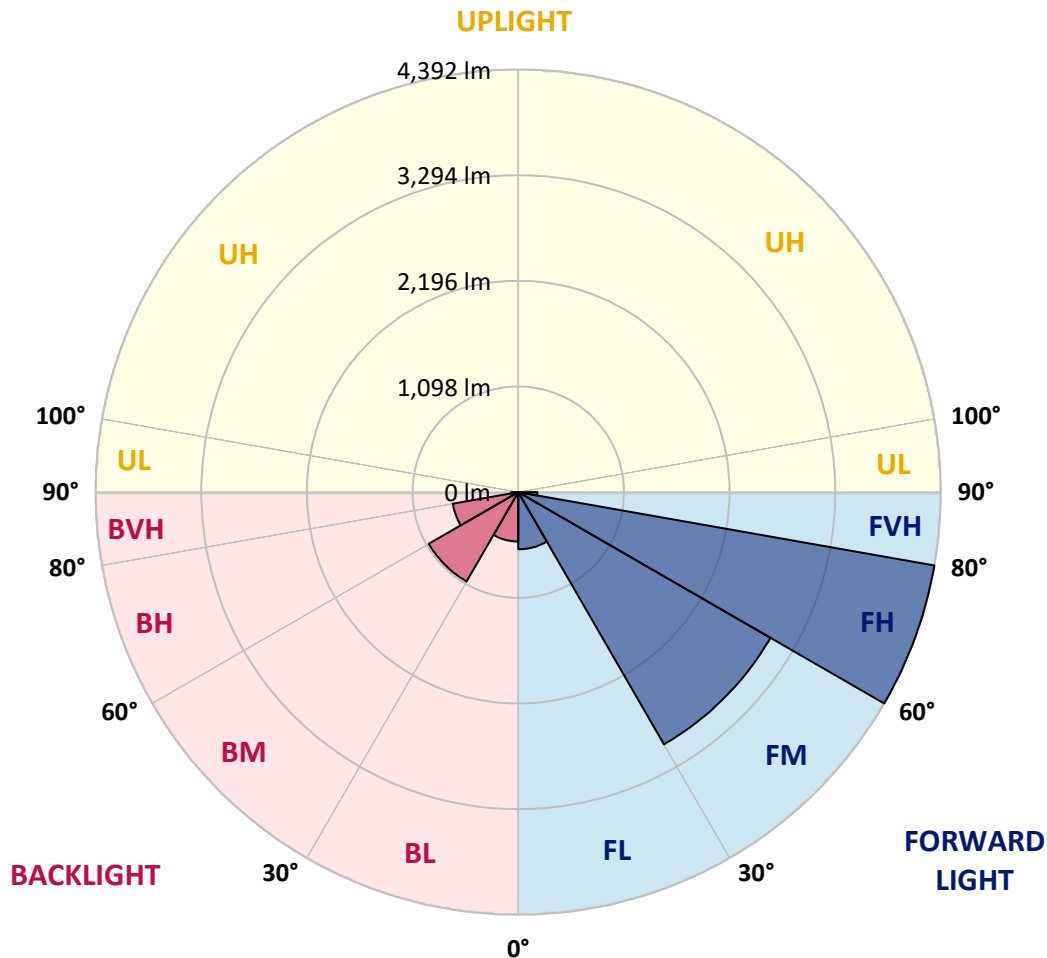


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	593.5	5.6			
FM (30°-60°)	3026.4	28.7			
FH (60°-80°)	4391.7	41.6			G2/5000
FVH (80°-90°)	198.4	1.9			G2/225
BL (0°-30°)	513.3	4.9	B2/1000		
BM (30°-60°)	1072.9	10.2	B2/2500		
BH (60°-80°)	690.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	74.2	0.7			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6
2.5°	1145.7	1152.5	1145.7	1144.5	1133.1	1125.2	1132.0	1121.7	1110.4	1105.8	1095.6
5°	1250.4	1251.6	1239.0	1240.2	1216.3	1191.2	1195.8	1165.0	1132.0	1119.5	1099.0
7.5°	1357.5	1345.0	1326.7	1321.0	1283.5	1256.1	1252.7	1225.4	1174.1	1145.7	1117.2
10°	1427.0	1431.5	1401.9	1376.8	1345.0	1311.9	1310.8	1259.5	1229.9	1187.8	1151.4
12.5°	1488.4	1489.6	1464.5	1424.7	1384.8	1343.8	1349.5	1326.7	1276.6	1236.8	1200.3
15°	1536.3	1529.4	1502.1	1465.7	1423.5	1391.6	1388.2	1368.9	1326.7	1293.7	1233.4
17.5°	1549.9	1546.5	1519.2	1480.5	1439.5	1415.6	1424.7	1392.8	1375.7	1346.1	1288.0
20°	1523.8	1515.8	1511.2	1468.0	1438.3	1436.1	1428.1	1434.9	1406.5	1379.1	1337.0
22.5°	1475.9	1472.5	1470.2	1436.1	1422.4	1432.6	1446.3	1456.6	1452.0	1425.8	1378.0
25°	1427.0	1442.9	1428.1	1412.1	1431.5	1457.7	1454.3	1487.3	1487.3	1479.3	1439.5
27.5°	1461.1	1450.9	1439.5	1431.5	1438.3	1479.3	1477.1	1516.9	1531.7	1516.9	1471.4
30°	1546.5	1536.3	1503.3	1468.0	1458.8	1503.3	1514.6	1549.9	1556.8	1520.3	1481.6
32.5°	1707.1	1701.4	1649.0	1545.4	1489.6	1514.6	1520.3	1560.2	1554.5	1531.7	1515.8
35°	1945.1	1925.8	1852.9	1677.5	1554.5	1529.4	1514.6	1546.5	1568.2	1556.8	1542.0
37.5°	2205.9	2184.3	2094.3	1872.2	1671.8	1569.3	1557.9	1584.1	1609.2	1603.5	1572.7
40°	2455.3	2455.3	2374.5	2115.9	1846.0	1666.1	1668.4	1638.8	1661.6	1651.3	1657.0
42.5°	2701.3	2692.2	2659.2	2401.8	2032.8	1827.8	1791.4	1717.4	1758.4	1754.9	1762.9
45°	2950.7	2943.9	2934.8	2668.3	2300.4	2046.5	2027.1	1893.9	1931.5	1915.5	1949.7
47.5°	3150.0	3158.0	3158.0	2965.5	2586.3	2338.0	2309.5	2098.9	2170.6	2178.6	2186.6
50°	3319.7	3323.1	3319.7	3249.1	2905.2	2671.7	2613.6	2399.5	2471.3	2533.9	2606.8
52.5°	3554.3	3558.8	3542.9	3515.6	3337.9	3022.5	2957.5	2719.5	2866.4	2932.5	3063.4
55°	3843.5	3809.4	3779.8	3800.3	3753.6	3408.5	3341.3	3049.8	3270.7	3358.4	3620.3
57.5°	3897.1	3926.7	4001.8	4164.7	4231.9	3784.3	3745.6	3455.2	3727.4	3803.7	4241.0
60°	4086.1	4037.1	4221.6	4574.7	4649.8	4274.0	4234.2	3899.4	4181.8	4261.5	4813.8
62.5°	4210.3	4208.0	4481.3	4900.4	5071.2	4781.9	4701.1	4476.7	4672.6	4750.1	5437.9
65°	4173.8	4206.8	4692.0	5091.7	5423.1	5359.3	5312.6	4973.3	5231.8	5224.9	5844.5
67.5°	3841.3	3934.7	4558.7	5229.5	5947.0	6063.1	6048.3	5671.4	5686.2	5541.5	6025.5
70°	3380.0	3348.2	3995.0	5086.0	6208.9	6897.9	6894.5	6190.7	6095.0	5611.0	5506.2
72°	2596.5	2561.2	3093.1	4367.4	6071.1	7231.6	7334.1	6550.5	6090.5	5322.9	4548.5
72.5°	2357.4	2326.6	2856.2	4111.2	5918.5	7318.1	7270.3	6564.2	6042.6	5187.4	4249.0
75°	1085.3	1050.0	1427.0	2516.8	4616.8	6484.5	6647.3	6142.8	5277.3	4129.4	2545.3
77.5°	323.4	313.2	458.9	1015.8	2683.1	4777.4	4840.0	4635.0	3684.1	2261.7	944.1
80°	179.9	181.1	236.9	380.4	1179.8	2761.7	2987.1	2863.0	1807.3	747.1	314.3
82.5°	100.2	105.9	148.0	225.5	542.1	1267.5	1364.3	1315.3	653.7	350.8	172.0
85°	52.4	54.7	77.4	120.7	307.5	400.9	412.3	441.9	339.4	239.2	92.2
87.5°	20.5	20.5	28.5	50.1	113.9	124.1	111.6	135.5	194.7	154.9	45.6
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°	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6	1087.6
2.5°	1104.7	1095.6	1094.4	1079.6	1084.2	1071.6	1072.8	1070.5	1071.6	1069.4	1063.7
5°	1099.0	1092.1	1072.8	1085.3	1073.9	1089.9	1102.4	1097.8	1101.2	1100.1	1101.2
7.5°	1106.9	1097.8	1095.6	1088.7	1099.0	1105.8	1116.1	1144.5	1142.2	1145.7	1152.5
10°	1130.9	1120.6	1113.8	1124.0	1118.3	1140.0	1151.4	1166.2	1192.4	1193.5	1179.8
12.5°	1177.5	1170.7	1157.1	1159.3	1178.7	1185.5	1192.4	1201.5	1218.5	1215.1	1227.7
15°	1231.1	1216.3	1208.3	1206.0	1210.6	1218.5	1217.4	1226.5	1235.6	1243.6	1240.2
17.5°	1269.8	1250.4	1252.7	1264.1	1263.0	1260.7	1245.9	1241.3	1245.9	1250.4	1248.2
20°	1309.7	1311.9	1294.8	1284.6	1280.0	1257.3	1245.9	1232.2	1218.5	1225.4	1235.6
22.5°	1359.8	1349.5	1324.5	1293.7	1270.9	1257.3	1222.0	1198.0	1198.0	1204.9	1201.5
25°	1416.7	1395.1	1351.8	1296.0	1267.5	1209.4	1184.4	1181.0	1171.9	1182.1	1186.7
27.5°	1461.1	1441.8	1382.5	1288.0	1209.4	1162.7	1147.9	1143.4	1158.2	1159.3	1177.5
30°	1479.3	1473.6	1387.1	1267.5	1150.2	1075.1	1065.9	1086.4	1102.4	1126.3	1127.4
32.5°	1503.3	1505.5	1393.9	1219.7	1072.8	997.6	983.9	1009.0	1054.6	1073.9	1088.7
35°	1543.1	1554.5	1388.2	1160.5	990.8	919.0	916.8	923.6	968.0	1002.2	1021.5
37.5°	1612.6	1610.3	1387.1	1089.9	925.9	850.7	832.5	834.8	864.4	892.8	889.4
40°	1706.0	1696.9	1383.7	997.6	841.6	792.6	761.9	750.5	748.2	740.2	742.5
42.5°	1833.5	1815.3	1382.5	904.2	765.3	712.9	691.3	661.7	640.0	599.0	601.3
45°	2011.2	1979.3	1352.9	816.5	690.1	646.9	613.8	592.2	545.5	494.3	494.3
47.5°	2285.6	2182.0	1354.1	719.7	617.2	581.9	559.2	521.6	471.5	430.5	425.9
50°	2689.9	2453.0	1315.3	643.4	558.0	534.1	510.2	466.9	419.1	390.6	394.0
52.5°	3211.5	2857.3	1314.2	575.1	511.3	494.3	468.1	429.3	394.0	375.8	369.0
55°	3833.3	3392.6	1355.2	519.3	463.5	454.4	443.0	411.1	377.0	361.0	359.9
57.5°	4469.9	3915.3	1421.3	479.4	422.5	429.3	421.4	396.3	369.0	350.8	348.5
60°	5035.9	4329.8	1288.0	431.6	386.1	400.9	412.3	390.6	375.8	374.7	366.7
62.5°	5463.0	4507.5	979.4	395.2	366.7	394.0	424.8	438.4	431.6	440.7	441.9
65°	5619.0	4400.4	674.2	375.8	351.9	410.0	478.3	473.8	433.9	416.8	425.9
67.5°	5400.3	3966.5	499.9	353.0	341.6	443.0	509.1	452.1	391.8	389.5	382.6
70°	4644.1	3361.8	407.7	329.1	324.6	424.8	495.4	419.1	369.0	354.2	347.3
72°	3700.1	2618.2	357.6	312.0	297.2	379.2	463.5	392.9	349.6	331.4	323.4
72.5°	3377.8	2426.8	350.8	304.1	291.5	369.0	447.6	384.9	345.1	329.1	316.6
75°	1852.9	1242.5	308.6	279.0	246.0	318.9	414.5	361.0	325.7	302.9	300.7
77.5°	689.0	481.7	266.5	247.1	213.0	275.6	377.0	342.8	296.1	267.6	261.9
80°	264.2	254.0	217.5	208.4	178.8	241.4	347.3	307.5	251.7	223.2	214.1
82.5°	160.6	148.0	165.1	162.9	136.7	219.8	326.8	288.1	223.2	181.1	175.4
85°	87.7	87.7	115.0	110.5	95.7	175.4	247.1	191.3	141.2	116.2	118.4
87.5°	38.7	45.6	61.5	58.1	52.4	99.1	120.7	101.4	70.6	47.8	51.2
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)