

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: P481070

Luminaire Tested: **IFLD-L-SA7D-830-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481070  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

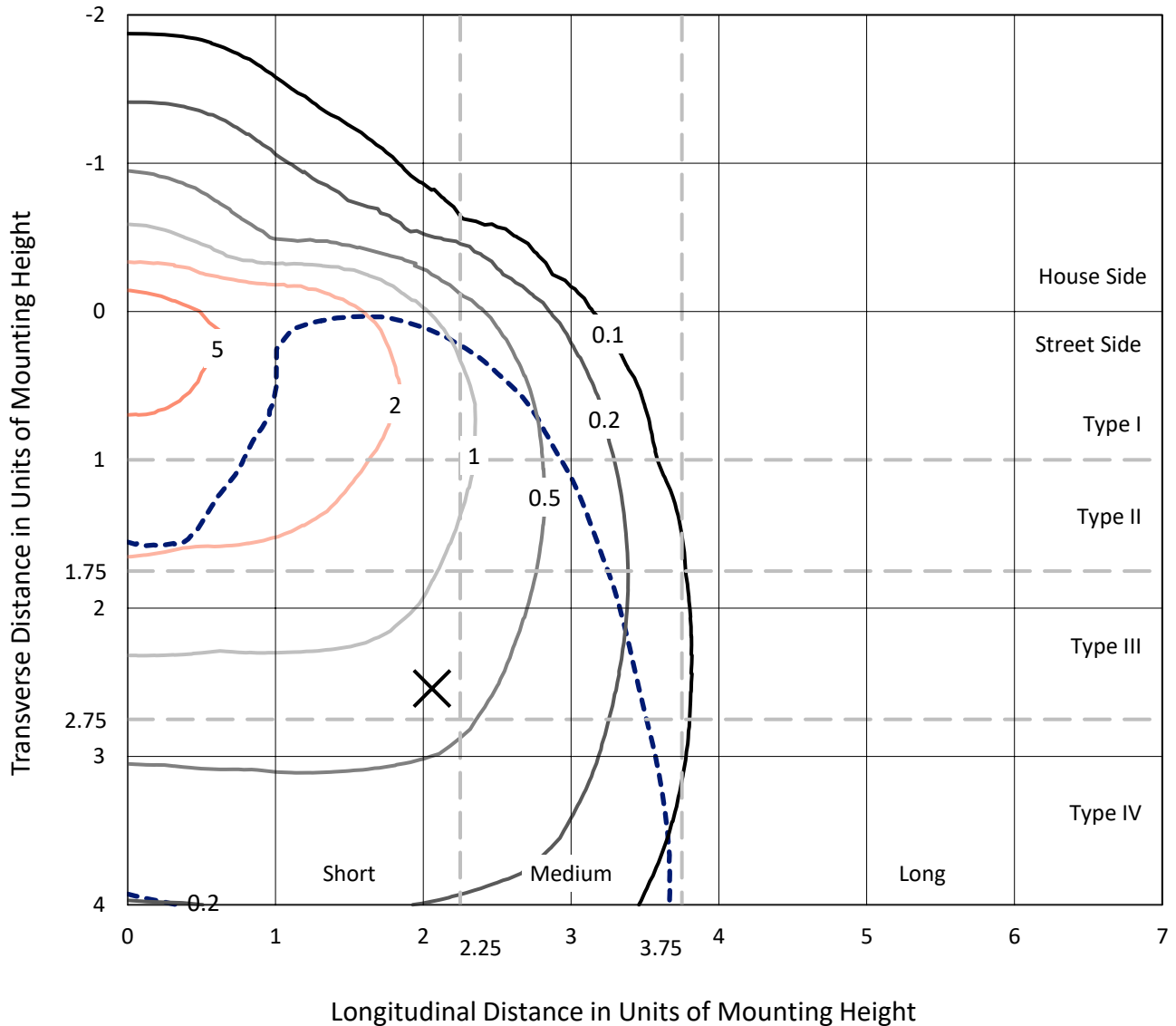
Lumens per Lamp: N/A  
Luminaire Lumens: 37491.6 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

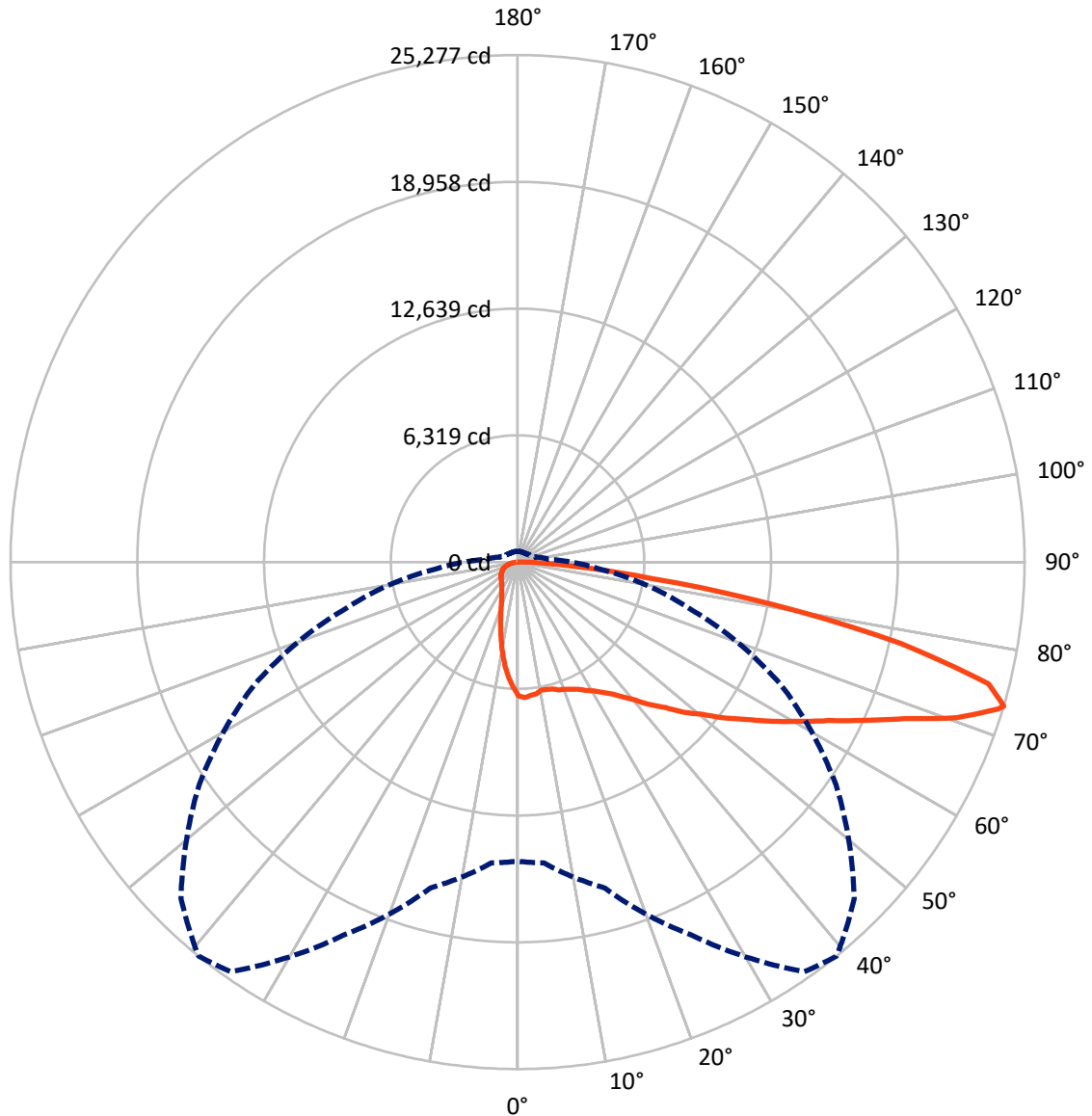
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical



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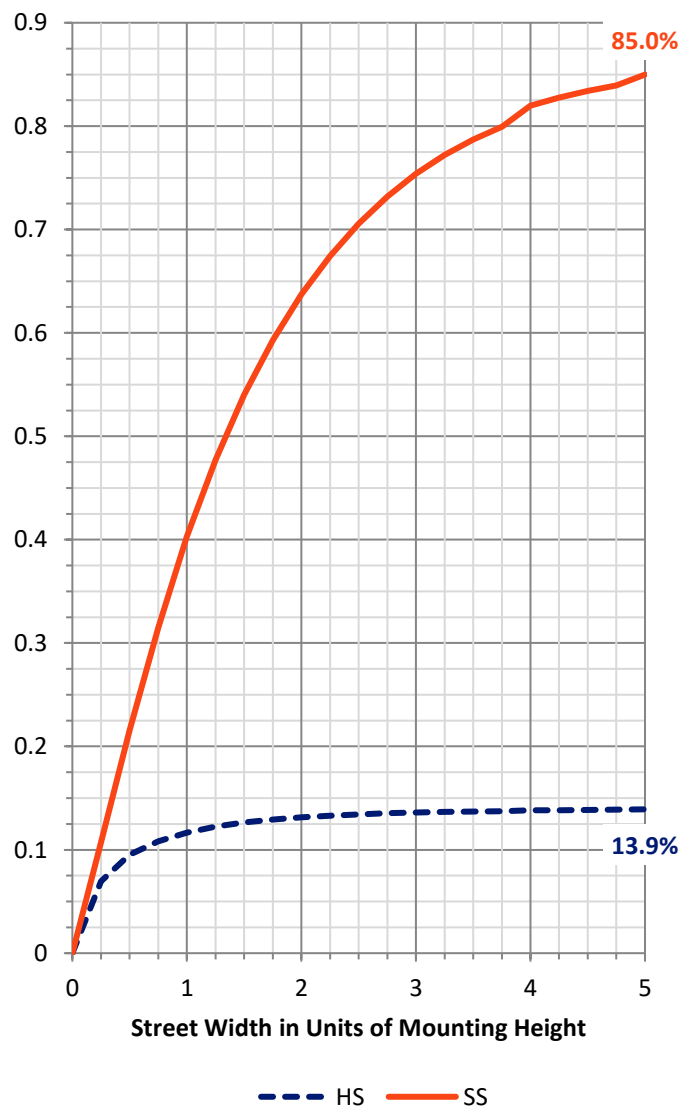
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5270.3	0.0	5270.3
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	32221.3	0.0	32221.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	37491.6	0.0	37491.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	579.3	1.5
10°-20°	1472.7	3.9
20°-30°	2250.5	6.0
30°-40°	3281.3	8.8
40°-50°	4958.4	13.2
50°-60°	7180.1	19.2
60°-70°	9122.6	24.3
70°-80°	7395.3	19.7
80°-90°	1251.2	3.3
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°	37491.6	100.0
0°-180°	37491.6	100.0

**Coefficient of Utilization**



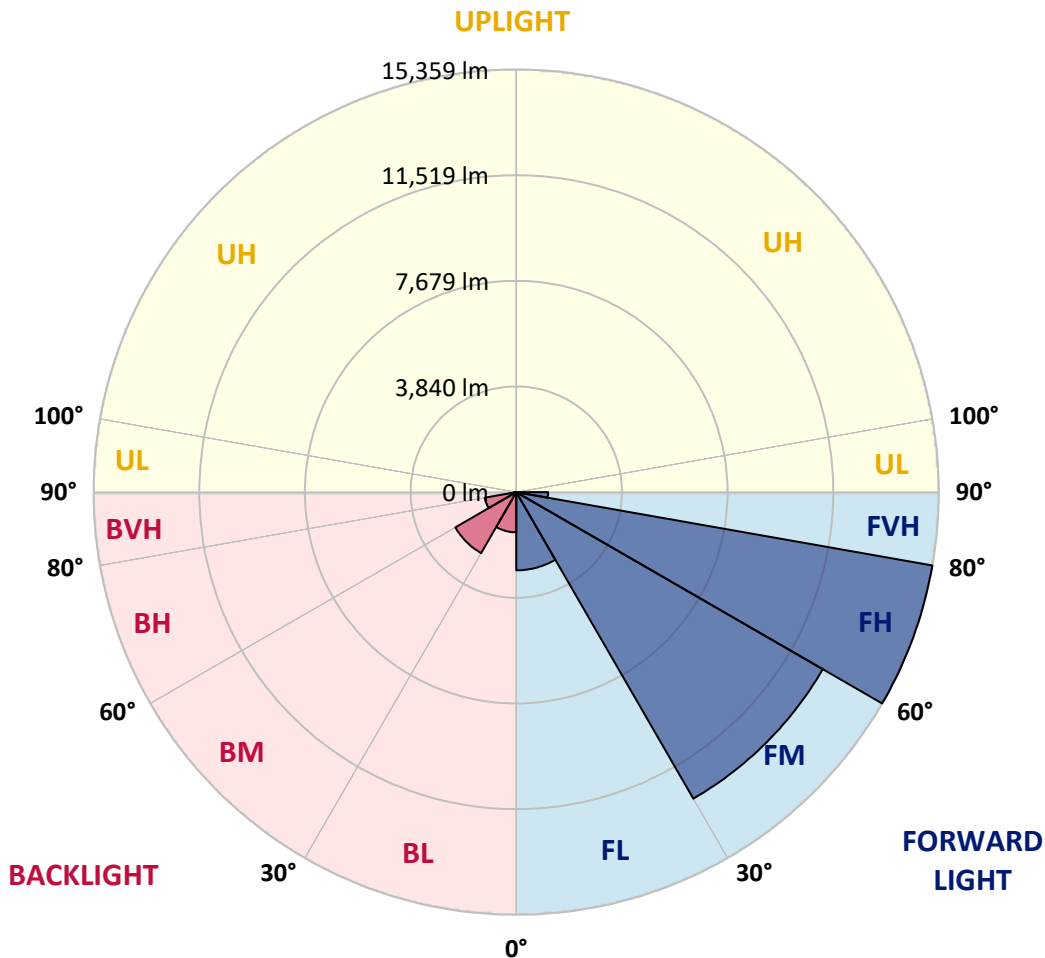
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2841.0	7.6			
FM	(30°-60°)	12862.0	34.3			
FH	(60°-80°)	15358.8	41.0			G5
FVH	(80°-90°)	1159.5	3.1			G5
BL	(0°-30°)	1461.6	3.9	B3/2500		
BM	(30°-60°)	2557.8	6.8	B3/5000		
BH	(60°-80°)	1159.1	3.1	B3/2500		G3/2500
BVH	(80°-90°)	91.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7
2.5°	6833.1	6761.8	6774.4	6749.2	6774.4	6766.0	6753.4	6690.5	6753.4	6690.5	6673.7
5°	6740.9	6740.9	6782.8	6719.9	6728.3	6686.3	6728.3	6682.1	6640.2	6535.3	6506.0
7.5°	6711.5	6707.3	6711.5	6623.4	6665.3	6640.2	6598.2	6547.9	6464.0	6396.9	6300.4
10°	6510.1	6552.1	6506.0	6531.1	6564.7	6489.2	6485.0	6472.4	6434.6	6346.6	6287.8
12.5°	6401.1	6472.4	6497.6	6476.6	6506.0	6514.3	6489.2	6472.4	6426.3	6367.5	6199.7
15°	6447.2	6363.3	6434.6	6573.1	6543.7	6564.7	6568.9	6552.1	6531.1	6422.1	6313.0
17.5°	6459.8	6409.5	6560.5	6589.8	6627.6	6703.1	6652.8	6648.6	6568.9	6493.4	6334.0
20°	6489.2	6468.2	6589.8	6745.0	6749.2	6761.8	6787.0	6724.1	6682.1	6552.1	6308.8
22.5°	6598.2	6669.5	6782.8	6849.9	6887.7	6896.1	6896.1	6770.2	6724.1	6619.2	6426.3
25°	6925.4	6849.9	7009.3	7089.0	7034.5	7021.9	6992.5	6879.3	6828.9	6736.7	6480.8
27.5°	7164.5	7160.3	7252.6	7361.7	7214.9	7244.2	7139.3	7105.8	6992.5	6942.2	6577.3
30°	7491.7	7584.0	7579.8	7613.3	7420.4	7453.9	7319.7	7256.8	7193.9	7223.2	6862.5
32.5°	7911.2	7877.6	7932.1	7907.0	7714.0	7743.4	7584.0	7487.5	7508.5	7596.6	7252.6
35°	8179.6	8146.1	8167.0	8167.0	8108.3	8074.8	8007.6	7881.8	7982.5	8146.1	7688.9
37.5°	8469.1	8511.0	8632.7	8607.5	8532.0	8532.0	8523.6	8435.5	8565.5	8968.2	8385.2
40°	8724.9	8838.2	8913.7	8964.0	9052.1	9052.1	9123.4	9073.1	9308.0	9954.0	9236.7
42.5°	8993.4	8997.6	9408.7	9446.4	9643.6	9727.5	9782.0	9823.9	10264.4	10985.9	10146.9
45°	9337.4	9358.3	9719.1	10008.5	10314.7	10344.1	10549.6	10688.0	11229.2	12114.2	11136.9
47.5°	9790.4	9765.2	10151.1	10612.5	10994.3	11195.6	11443.1	11594.1	12261.1	13339.1	12219.1
50°	10386.0	10310.5	10532.8	11258.5	11707.4	11929.7	12370.1	12621.8	13402.0	14509.4	12961.6
52.5°	11111.7	10985.9	11162.0	11954.8	12458.2	12907.0	13326.5	13607.5	14421.3	15415.5	13511.1
55°	11879.3	11619.3	11669.6	12693.1	13418.8	13842.4	14417.1	14710.7	15541.3	16229.2	14060.6
57.5°	12638.6	12475.0	12374.3	13402.0	14563.9	14970.8	15499.3	15881.1	16585.8	16950.7	14526.2
60°	13276.2	13234.2	13070.6	14501.0	15776.2	16124.4	16678.1	16913.0	17445.7	17617.7	14534.6
62.5°	13800.5	13657.9	13918.0	15386.1	17009.4	17403.7	18012.0	18032.9	18410.5	18032.9	14106.7
65°	14211.6	14220.0	14635.2	16455.7	18435.6	19018.7	19509.5	19454.9	19211.6	17785.4	13095.8
67.5°	14584.9	14744.3	15352.5	17630.2	20268.7	20818.2	21363.5	20642.0	19429.8	16627.7	11120.1
70°	14878.5	15037.9	16321.5	19060.6	22429.0	23234.3	23356.0	21111.8	18427.2	14085.7	8389.4
72.5°	14845.0	15134.4	16871.0	20201.6	24345.9	25042.2	24060.7	19790.5	15352.5	9819.7	4895.2
73°	14916.3	15058.9	16824.9	20520.4	24929.0	25277.1	23733.5	19375.2	14480.0	8808.8	4140.2
75°	13540.4	14022.8	15990.1	20000.2	24304.0	24241.1	21854.3	16145.3	10293.7	4626.7	2005.1
77.5°	10016.9	10323.1	12600.8	16447.3	19949.9	19547.2	16485.1	10318.9	4886.8	1715.6	1082.2
80°	4895.2	5134.3	6677.9	9496.8	13045.5	13079.0	10230.8	5369.2	2093.1	969.0	738.3
82.5°	2445.5	2588.1	3208.9	4173.7	6417.9	6724.1	5188.8	3053.7	1296.2	549.5	419.5
85°	1598.2	1698.8	1975.7	2042.8	2722.3	2873.4	2416.1	2382.6	843.1	297.8	339.8
87.5°	1061.3	1078.0	1212.3	1031.9	1090.6	1048.7	1166.1	1501.7	247.5	125.8	92.3
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°	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7	6673.7
2.5°	6652.8	6594.0	6531.1	6443.0	6380.1	6283.6	6195.5	6157.8	6149.4	6153.6	6111.7
5°	6480.8	6396.9	6271.0	6090.7	5985.8	5826.4	5692.2	5620.9	5545.4	5558.0	5524.4
7.5°	6241.7	6149.4	5956.4	5746.7	5486.6	5260.1	5134.3	4958.1	4857.4	4781.9	4823.9
10°	6166.2	6006.8	5717.4	5427.9	5025.2	4727.4	4438.0	4236.6	4098.2	3964.0	4022.7
12.5°	6128.4	5969.0	5566.3	5138.5	4618.3	4165.3	3758.4	3510.9	3313.8	3196.3	3242.5
15°	6094.9	5897.7	5423.7	4819.7	4236.6	3641.0	3183.8	2856.6	2667.8	2554.6	2567.1
17.5°	6141.0	5860.0	5214.0	4509.3	3817.2	3179.6	2672.0	2332.2	2139.3	2068.0	2051.2
20°	6094.9	5818.0	5008.4	4198.9	3397.7	2739.1	2252.5	1971.5	1837.3	1778.5	1766.0
22.5°	6111.7	5717.4	4794.5	3854.9	3007.6	2370.0	1971.5	1757.6	1652.7	1623.3	1631.7
25°	6191.3	5658.6	4580.6	3477.4	2621.7	2097.3	1791.1	1627.5	1552.0	1522.7	1531.1
27.5°	6250.1	5709.0	4387.6	3120.8	2294.5	1854.0	1640.1	1531.1	1480.7	1459.7	1455.6
30°	6396.9	5738.3	4198.9	2802.0	2026.0	1694.7	1535.3	1447.2	1413.6	1401.0	1396.8
32.5°	6615.0	5792.9	3980.8	2508.4	1828.9	1543.6	1451.4	1375.9	1367.5	1354.9	1359.1
35°	6971.6	5981.6	3737.5	2256.7	1640.1	1443.0	1363.3	1312.9	1312.9	1312.9	1325.5
37.5°	7483.3	6245.9	3519.3	2017.6	1518.5	1354.9	1287.8	1271.0	1262.6	1275.2	1283.6
40°	8141.9	6564.7	3343.2	1828.9	1413.6	1296.2	1237.4	1229.0	1224.8	1220.7	1229.0
42.5°	8863.4	6971.6	3192.2	1682.1	1338.1	1233.2	1191.3	1182.9	1166.1	1174.5	1187.1
45°	9580.7	7474.9	3057.9	1564.6	1287.8	1199.7	1141.0	1136.8	1128.4	1124.2	1145.1
47.5°	10377.6	7969.9	3016.0	1493.3	1250.0	1149.3	1107.4	1103.2	1078.0	1073.8	1090.6
50°	10998.5	8334.8	3062.1	1459.7	1195.5	1111.6	1082.2	1061.3	1040.3	1019.3	1019.3
52.5°	11426.3	8586.5	3095.7	1434.6	1166.1	1061.3	1023.5	1015.1	994.1	973.2	964.8
55°	11812.2	8737.5	3104.1	1438.8	1136.8	1002.5	977.4	973.2	960.6	927.0	918.6
57.5°	11942.3	8674.6	2936.3	1401.0	1120.0	964.8	931.2	939.6	922.8	893.5	889.3
60°	11929.7	8238.4	2554.6	1350.7	1082.2	922.8	880.9	906.1	906.1	872.5	868.3
62.5°	11204.0	7231.6	2089.0	1254.2	1040.3	880.9	834.7	872.5	885.1	864.1	859.9
65°	9698.1	5889.3	1745.0	1157.7	977.4	834.7	788.6	830.5	851.5	843.1	838.9
67.5°	8024.4	4505.1	1451.4	1031.9	897.7	771.8	734.1	763.4	776.0	780.2	784.4
70°	5671.2	2999.2	1212.3	893.5	788.6	704.7	662.8	667.0	662.8	675.3	675.3
72.5°	3083.1	1728.2	985.8	759.2	679.5	612.4	583.1	562.1	562.1	557.9	557.9
73°	2638.5	1552.0	939.6	738.3	650.2	595.6	562.1	545.3	545.3	541.1	536.9
75°	1480.7	1136.8	805.4	633.4	562.1	520.1	495.0	469.8	465.6	465.6	465.6
77.5°	973.2	885.1	641.8	507.6	453.0	415.3	406.9	381.7	381.7	381.7	377.5
80°	729.9	696.3	495.0	385.9	348.2	318.8	310.4	293.6	289.4	272.7	276.8
82.5°	486.6	549.5	360.7	272.7	234.9	218.1	218.1	213.9	201.3	180.4	180.4
85°	385.9	448.8	260.1	167.8	138.4	117.5	121.6	117.5	113.3	92.3	88.1
87.5°	71.3	180.4	75.5	46.1	33.6	21.0	21.0	12.6	8.4	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)