

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: P481075

Luminaire Tested: **IFLD-L-SA8D-830-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481075  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-830-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

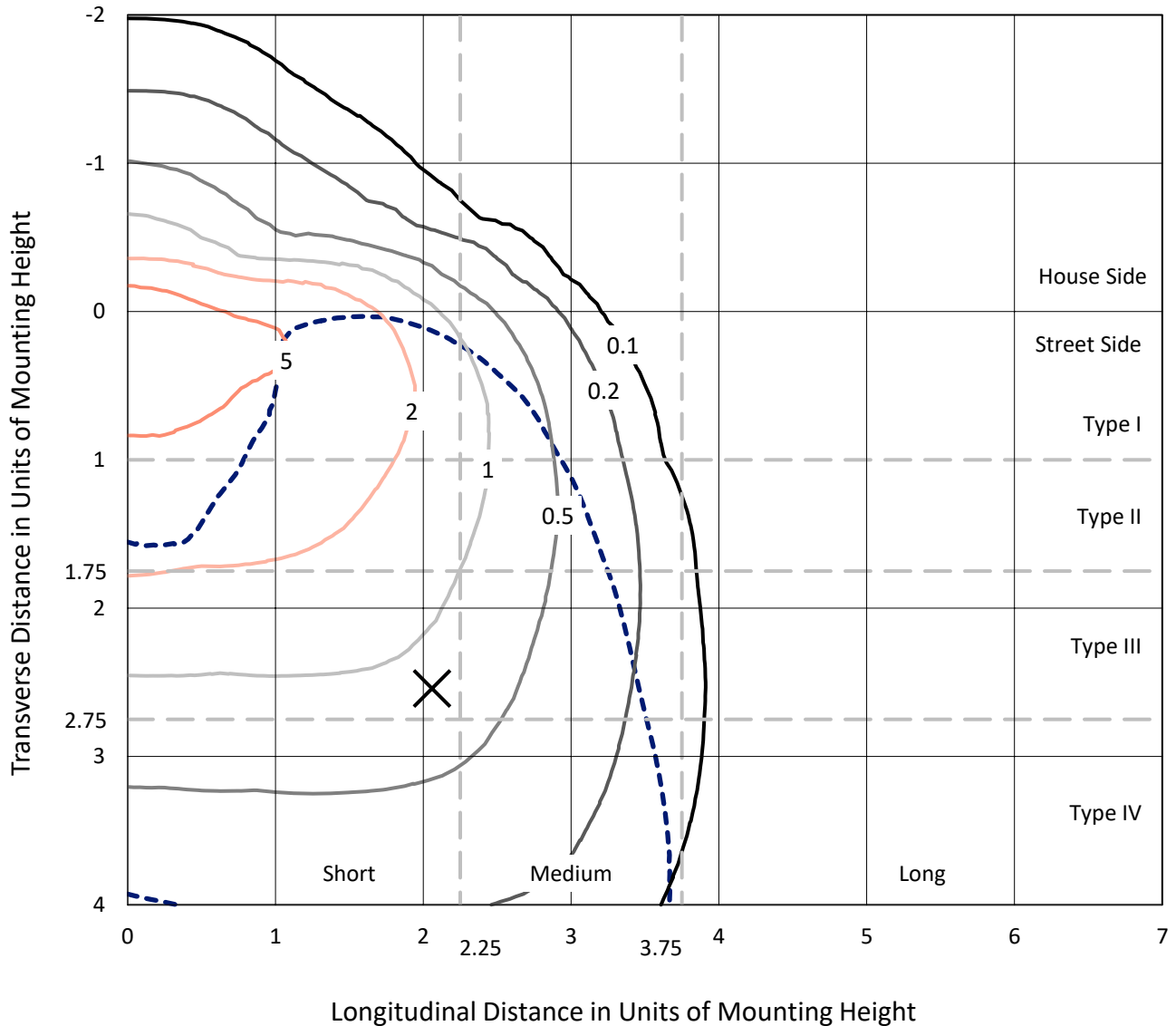
Lumens per Lamp: N/A  
Luminaire Lumens: 42847.7 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
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

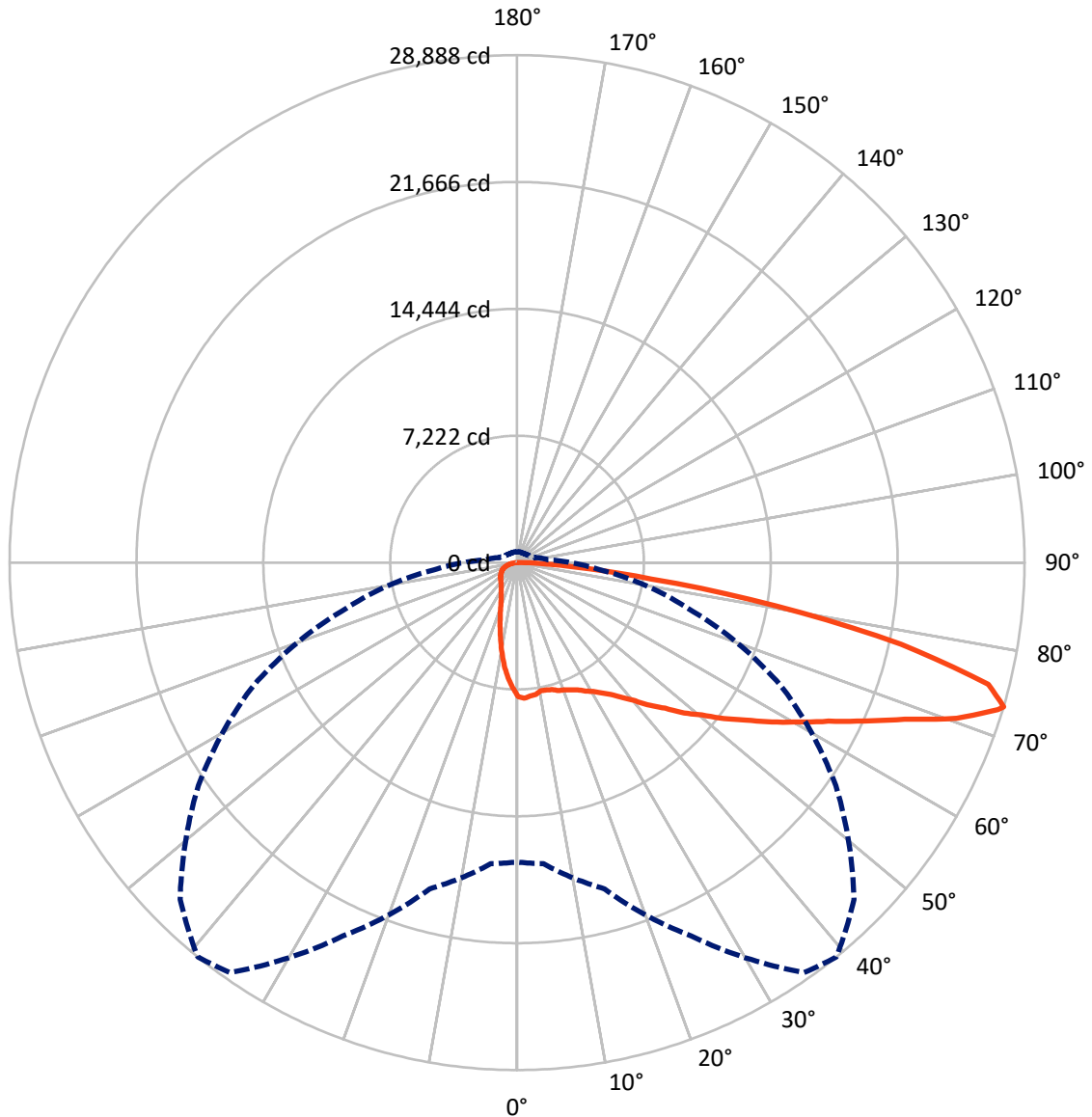
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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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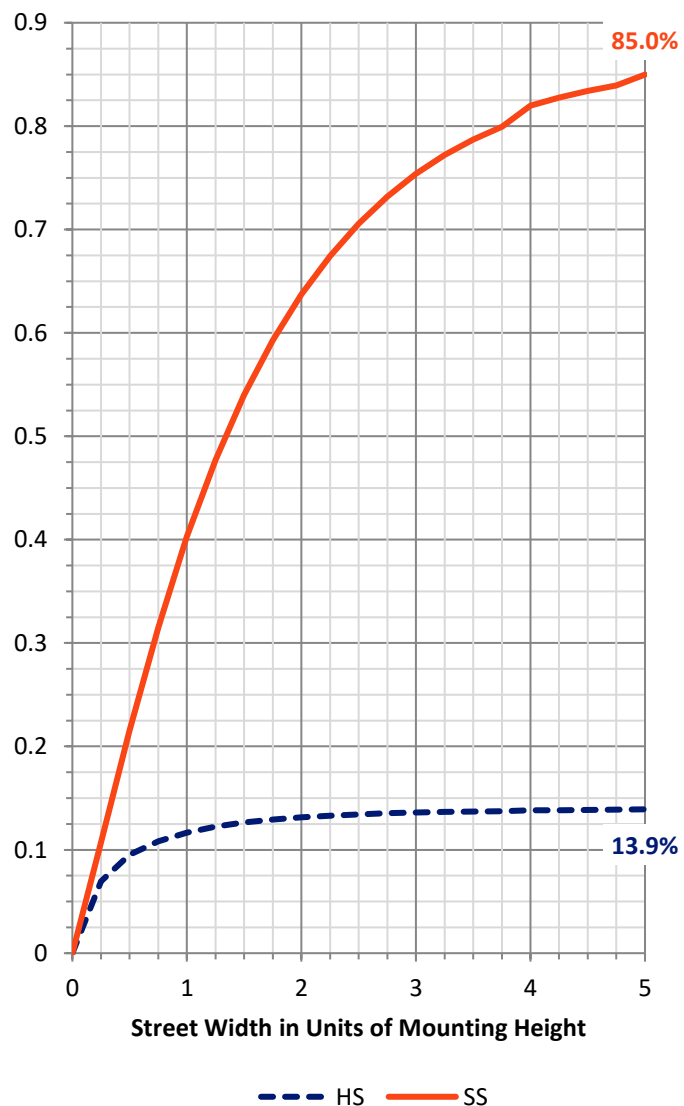
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6023.2	0.0	6023.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	36824.5	0.0	36824.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	42847.7	0.0	42847.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.1	1.5
10°-20°	1683.1	3.9
20°-30°	2572.0	6.0
30°-40°	3750.1	8.8
40°-50°	5666.8	13.2
50°-60°	8205.8	19.2
60°-70°	10425.9	24.3
70°-80°	8451.8	19.7
80°-90°	1430.0	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°	42847.7	100.0
0°-180°	42847.7	100.0

**Coefficient of Utilization**



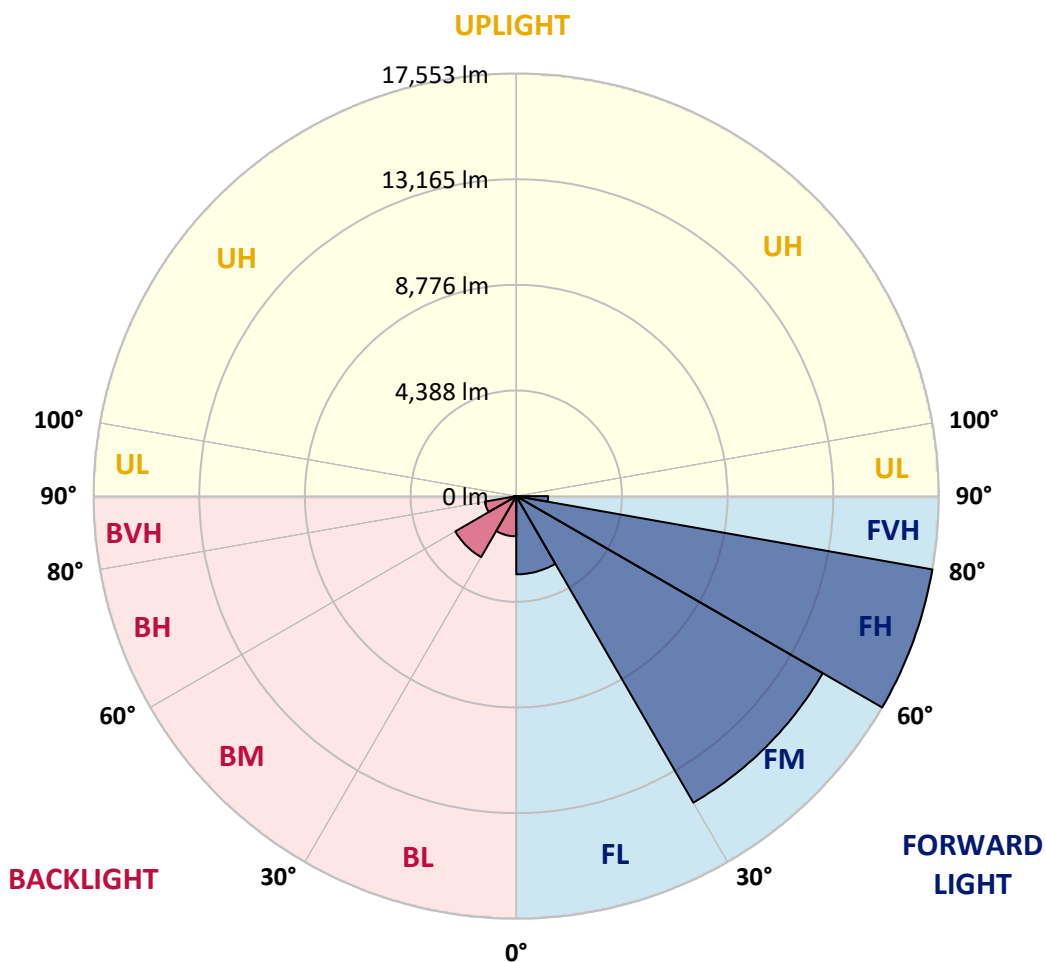
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3246.9	7.6			
FM (30°-60°)	14699.5	34.3			
FH (60°-80°)	17553.0	41.0			G5
FVH (80°-90°)	1325.1	3.1			G5
BL (0°-30°)	1670.4	3.9	B3/2500		
BM (30°-60°)	2923.2	6.8	B3/5000		
BH (60°-80°)	1324.7	3.1	B3/2500		G3/2500
BVH (80°-90°)	104.9	0.2			G2/225
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°	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1
2.5°	7809.3	7727.8	7742.2	7713.4	7742.2	7732.6	7718.2	7646.3	7718.2	7646.3	7627.1
5°	7703.9	7703.9	7751.8	7679.9	7689.5	7641.5	7689.5	7636.7	7588.8	7468.9	7435.4
7.5°	7670.3	7665.5	7670.3	7569.6	7617.6	7588.8	7540.9	7483.3	7387.5	7310.7	7200.5
10°	7440.2	7488.1	7435.4	7464.2	7502.5	7416.2	7411.4	7397.0	7353.9	7253.2	7186.1
12.5°	7315.5	7397.0	7425.8	7401.8	7435.4	7445.0	7416.2	7397.0	7344.3	7277.2	7085.4
15°	7368.3	7272.4	7353.9	7512.1	7478.5	7502.5	7507.3	7488.1	7464.2	7339.5	7214.9
17.5°	7382.7	7325.1	7497.7	7531.3	7574.4	7660.7	7603.2	7598.4	7507.3	7421.0	7238.8
20°	7416.2	7392.2	7531.3	7708.6	7713.4	7727.8	7756.6	7684.7	7636.7	7488.1	7210.1
22.5°	7540.9	7622.4	7751.8	7828.5	7871.6	7881.2	7881.2	7737.4	7684.7	7564.8	7344.3
25°	7914.8	7828.5	8010.7	8101.7	8039.4	8025.0	7991.5	7862.1	7804.5	7699.1	7406.6
27.5°	8188.0	8183.2	8288.7	8413.4	8245.6	8279.1	8159.3	8120.9	7991.5	7934.0	7516.9
30°	8562.0	8667.4	8662.6	8701.0	8480.5	8518.8	8365.4	8293.5	8221.6	8255.2	7842.9
32.5°	9041.4	9003.0	9065.3	9036.6	8816.0	8849.6	8667.4	8557.2	8581.1	8681.8	8288.7
35°	9348.2	9309.8	9333.8	9333.8	9266.7	9228.3	9151.6	9007.8	9122.9	9309.8	8787.3
37.5°	9679.0	9726.9	9865.9	9837.2	9750.9	9750.9	9741.3	9640.6	9789.2	10249.4	9583.1
40°	9971.4	10100.8	10187.1	10244.6	10345.3	10345.3	10426.8	10369.3	10637.7	11376.0	10556.2
42.5°	10278.2	10283.0	10752.8	10795.9	11021.3	11117.1	11179.5	11227.4	11730.8	12555.3	11596.5
45°	10671.3	10695.3	11107.5	11438.3	11788.3	11821.8	12056.7	12214.9	12833.4	13844.9	12727.9
47.5°	11189.0	11160.3	11601.3	12128.7	12564.9	12795.0	13077.8	13250.4	14012.7	15244.7	13964.7
50°	11869.8	11783.5	12037.6	12866.9	13379.9	13633.9	14137.3	14424.9	15316.6	16582.2	14813.3
52.5°	12699.1	12555.3	12756.7	13662.7	14238.0	14750.9	15230.3	15551.5	16481.5	17617.7	15441.3
55°	13576.4	13279.2	13336.7	14506.4	15335.8	15820.0	16476.7	16812.3	17761.5	18547.7	16069.3
57.5°	14444.1	14257.2	14142.1	15316.6	16644.5	17109.5	17713.6	18149.8	18955.2	19372.3	16601.4
60°	15172.8	15124.9	14937.9	16572.6	18030.0	18427.9	19060.7	19329.1	19938.0	20134.5	16611.0
62.5°	15772.0	15609.0	15906.3	17584.1	19439.4	19890.0	20585.1	20609.1	21040.6	20609.1	16122.0
65°	16241.8	16251.4	16726.0	18806.6	21069.3	21735.7	22296.6	22234.3	21956.2	20326.3	14966.7
67.5°	16668.5	16850.7	17545.8	20148.9	23164.3	23792.3	24415.5	23590.9	22205.5	19003.2	12708.7
70°	17004.1	17186.3	18653.2	21783.6	25633.2	26553.6	26692.6	24127.9	21059.7	16098.0	9587.9
72.5°	16965.7	17296.5	19281.2	23087.6	27824.0	28619.8	27498.0	22617.8	17545.8	11222.6	5594.5
73°	17047.2	17210.2	19228.5	23451.9	28490.3	28888.2	27124.1	22143.2	16548.7	10067.3	4731.6
75°	15474.8	16026.1	18274.5	22857.5	27776.0	27704.1	24976.4	18451.8	11764.3	5287.7	2291.5
77.5°	11447.9	11797.9	14401.0	18797.0	22799.9	22339.7	18840.2	11793.1	5584.9	1960.7	1236.8
80°	5594.5	5867.8	7631.9	10853.5	14909.1	14947.5	11692.4	6136.2	2392.2	1107.4	843.7
82.5°	2794.9	2957.9	3667.4	4770.0	7334.7	7684.7	5930.1	3490.0	1481.3	628.0	479.4
85°	1826.5	1941.5	2257.9	2334.6	3111.3	3283.8	2761.3	2723.0	963.6	340.4	388.3
87.5°	1212.9	1232.0	1385.4	1179.3	1246.4	1198.5	1332.7	1716.2	282.8	143.8	105.5
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°	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1	7627.1
2.5°	7603.2	7536.1	7464.2	7363.5	7291.6	7181.3	7080.6	7037.5	7027.9	7032.7	6984.8
5°	7406.6	7310.7	7166.9	6960.8	6840.9	6658.8	6505.4	6423.9	6337.6	6352.0	6313.6
7.5°	7133.4	7027.9	6807.4	6567.7	6270.5	6011.6	5867.8	5666.4	5551.4	5465.1	5513.0
10°	7047.1	6864.9	6534.1	6203.3	5743.1	5402.8	5072.0	4841.9	4683.7	4530.3	4597.4
12.5°	7003.9	6821.8	6361.5	5872.6	5278.1	4760.4	4295.4	4012.5	3787.2	3653.0	3705.7
15°	6965.6	6740.3	6198.6	5508.2	4841.9	4161.1	3638.6	3264.7	3048.9	2919.5	2933.9
17.5°	7018.3	6697.1	5958.9	5153.5	4362.5	3633.8	3053.7	2665.4	2444.9	2363.4	2344.2
20°	6965.6	6649.2	5724.0	4798.7	3883.1	3130.4	2574.3	2253.1	2099.7	2032.6	2018.2
22.5°	6984.8	6534.1	5479.5	4405.6	3437.3	2708.6	2253.1	2008.7	1888.8	1855.3	1864.8
25°	7075.8	6467.0	5235.0	3974.2	2996.2	2397.0	2047.0	1860.0	1773.8	1740.2	1749.8
27.5°	7143.0	6524.5	5014.5	3566.7	2622.3	2118.9	1874.4	1749.8	1692.3	1668.3	1663.5
30°	7310.7	6558.1	4798.7	3202.3	2315.5	1936.7	1754.6	1653.9	1615.6	1601.2	1596.4
32.5°	7560.0	6620.4	4549.4	2866.8	2090.2	1764.2	1658.7	1572.4	1562.8	1548.4	1553.2
35°	7967.5	6836.1	4271.4	2579.1	1874.4	1649.1	1558.0	1500.5	1500.5	1500.5	1514.9
37.5°	8552.4	7138.2	4022.1	2305.9	1735.4	1548.4	1471.7	1452.6	1443.0	1457.4	1466.9
40°	9305.0	7502.5	3820.8	2090.2	1615.6	1481.3	1414.2	1404.6	1399.8	1395.0	1404.6
42.5°	10129.6	7967.5	3648.2	1922.4	1529.3	1409.4	1361.5	1351.9	1332.7	1342.3	1356.7
45°	10949.3	8542.8	3494.8	1788.1	1471.7	1371.1	1303.9	1299.2	1289.6	1284.8	1308.7
47.5°	11860.2	9108.5	3446.8	1706.6	1428.6	1313.5	1265.6	1260.8	1232.0	1227.2	1246.4
50°	12569.7	9525.5	3499.6	1668.3	1366.3	1270.4	1236.8	1212.9	1188.9	1164.9	1164.9
52.5°	13058.7	9813.2	3537.9	1639.5	1332.7	1212.9	1169.7	1160.1	1136.2	1112.2	1102.6
55°	13499.7	9985.8	3547.5	1644.3	1299.2	1145.8	1117.0	1112.2	1097.8	1059.5	1049.9
57.5°	13648.3	9913.9	3355.8	1601.2	1280.0	1102.6	1064.3	1073.8	1054.7	1021.1	1016.3
60°	13633.9	9415.3	2919.5	1543.6	1236.8	1054.7	1006.7	1035.5	1035.5	997.1	992.3
62.5°	12804.6	8264.7	2387.4	1433.4	1188.9	1006.7	954.0	997.1	1011.5	987.6	982.8
65°	11083.6	6730.7	1994.3	1323.1	1117.0	954.0	901.3	949.2	973.2	963.6	958.8
67.5°	9170.8	5148.7	1658.7	1179.3	1025.9	882.1	838.9	872.5	886.9	891.7	896.5
70°	6481.4	3427.7	1385.4	1021.1	901.3	805.4	757.4	762.2	757.4	771.8	771.8
72.5°	3523.5	1975.1	1126.6	867.7	776.6	699.9	666.4	642.4	642.4	637.6	637.6
73°	3015.4	1773.8	1073.8	843.7	743.1	680.7	642.4	623.2	623.2	618.4	613.6
75°	1692.3	1299.2	920.4	723.9	642.4	594.4	565.7	536.9	532.1	532.1	532.1
77.5°	1112.2	1011.5	733.5	580.1	517.7	474.6	465.0	436.2	436.2	436.2	431.5
80°	834.1	795.8	565.7	441.0	397.9	364.3	354.8	335.6	330.8	311.6	316.4
82.5°	556.1	628.0	412.3	311.6	268.5	249.3	249.3	244.5	230.1	206.1	206.1
85°	441.0	513.0	297.2	191.8	158.2	134.2	139.0	134.2	129.4	105.5	100.7
87.5°	81.5	206.1	86.3	52.7	38.4	24.0	24.0	14.4	9.6	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)