

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: P481031

Luminaire Tested: **IFLD-L-SA7D-827-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481031  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-827-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

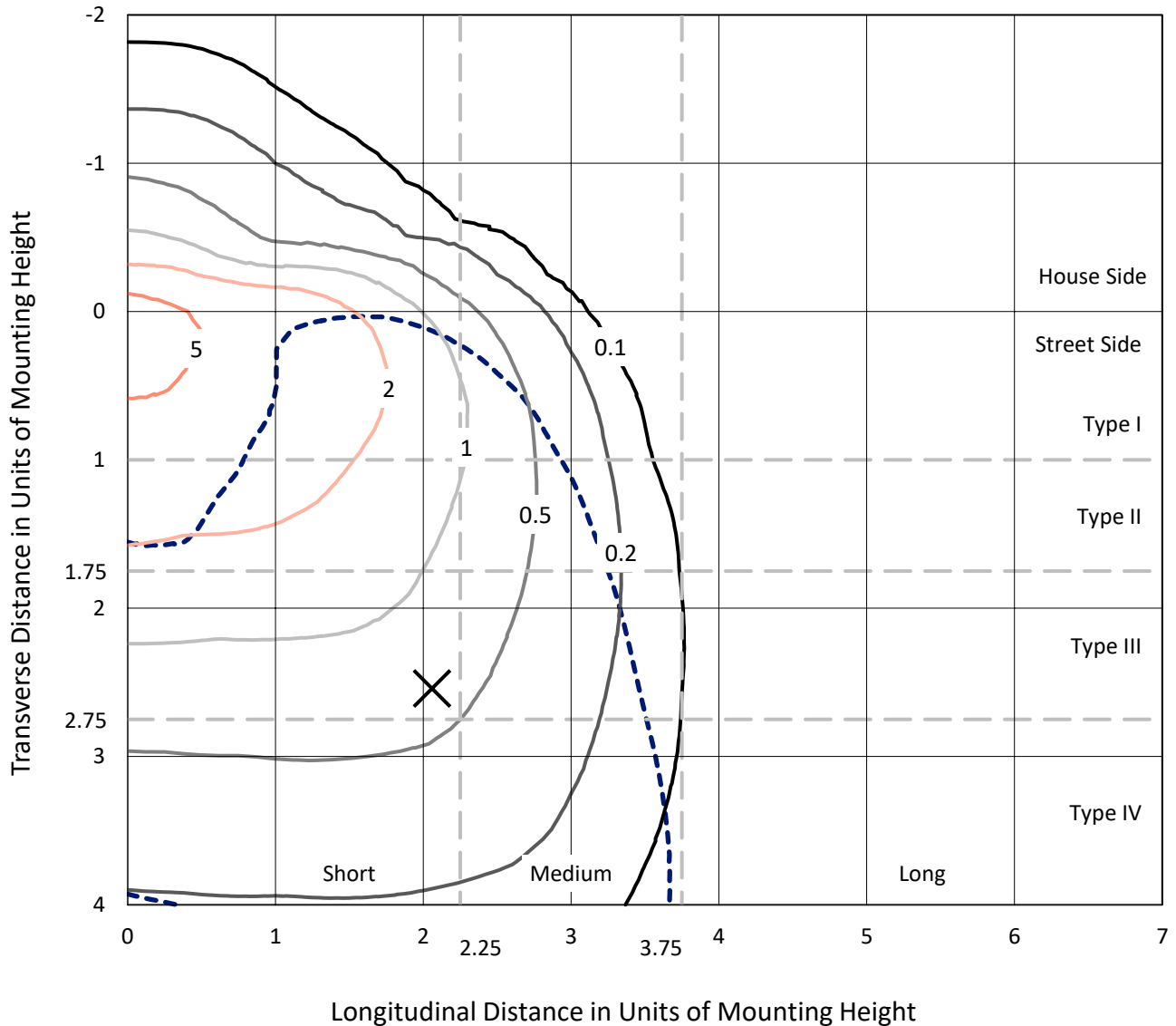
Lumens per Lamp: N/A  
Luminaire Lumens: 34684.2 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

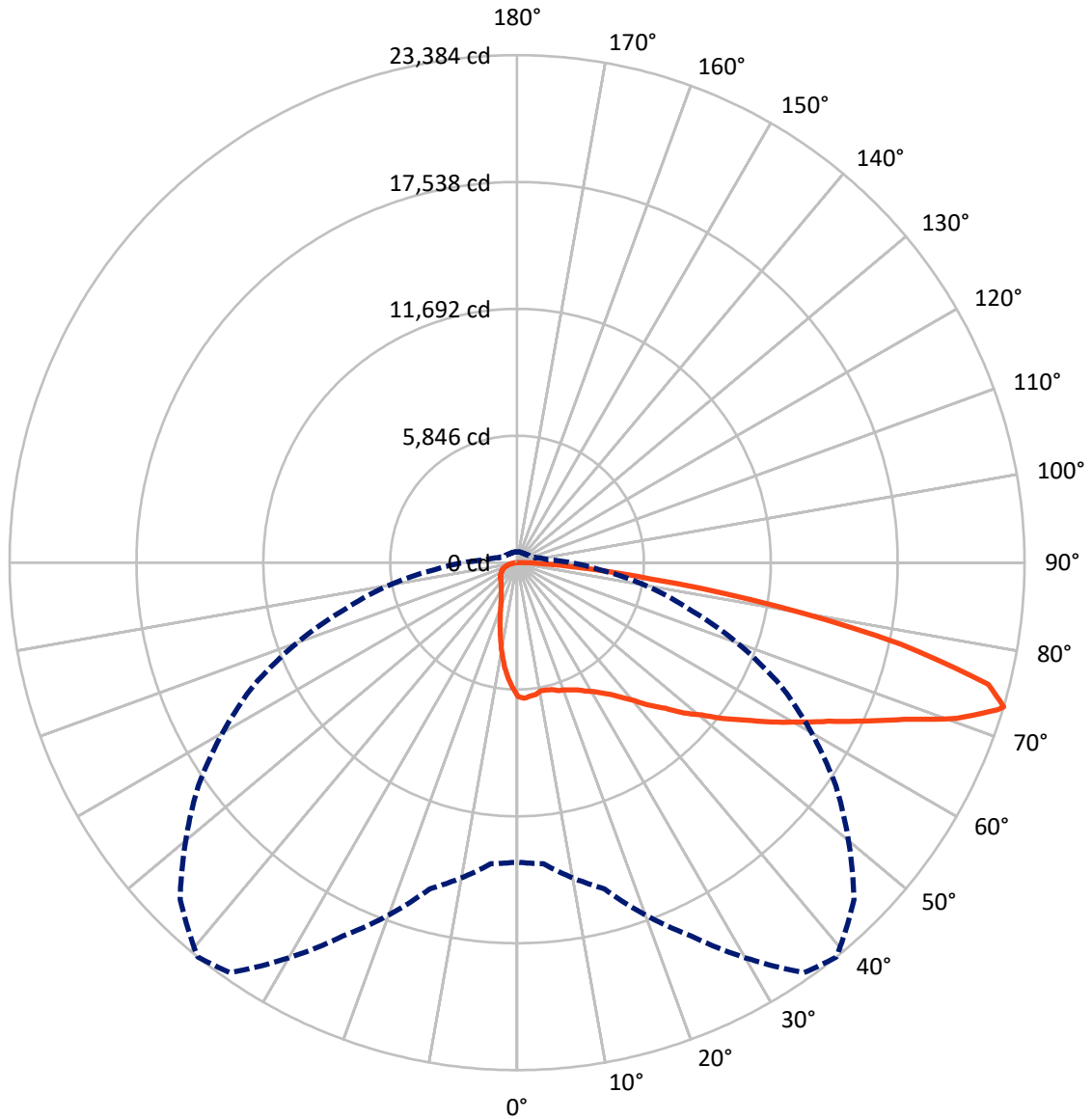
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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	4875.6	0.0	4875.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	29808.6	0.0	29808.6
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	34684.2	0.0	34684.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.0	1.5
10°-20°	1362.5	3.9
20°-30°	2082.0	6.0
30°-40°	3035.6	8.8
40°-50°	4587.1	13.2
50°-60°	6642.4	19.2
60°-70°	8439.5	24.3
70°-80°	6841.5	19.7
80°-90°	1157.6	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°	34684.2	100.0
0°-180°	34684.2	100.0

**Coefficient of Utilization**



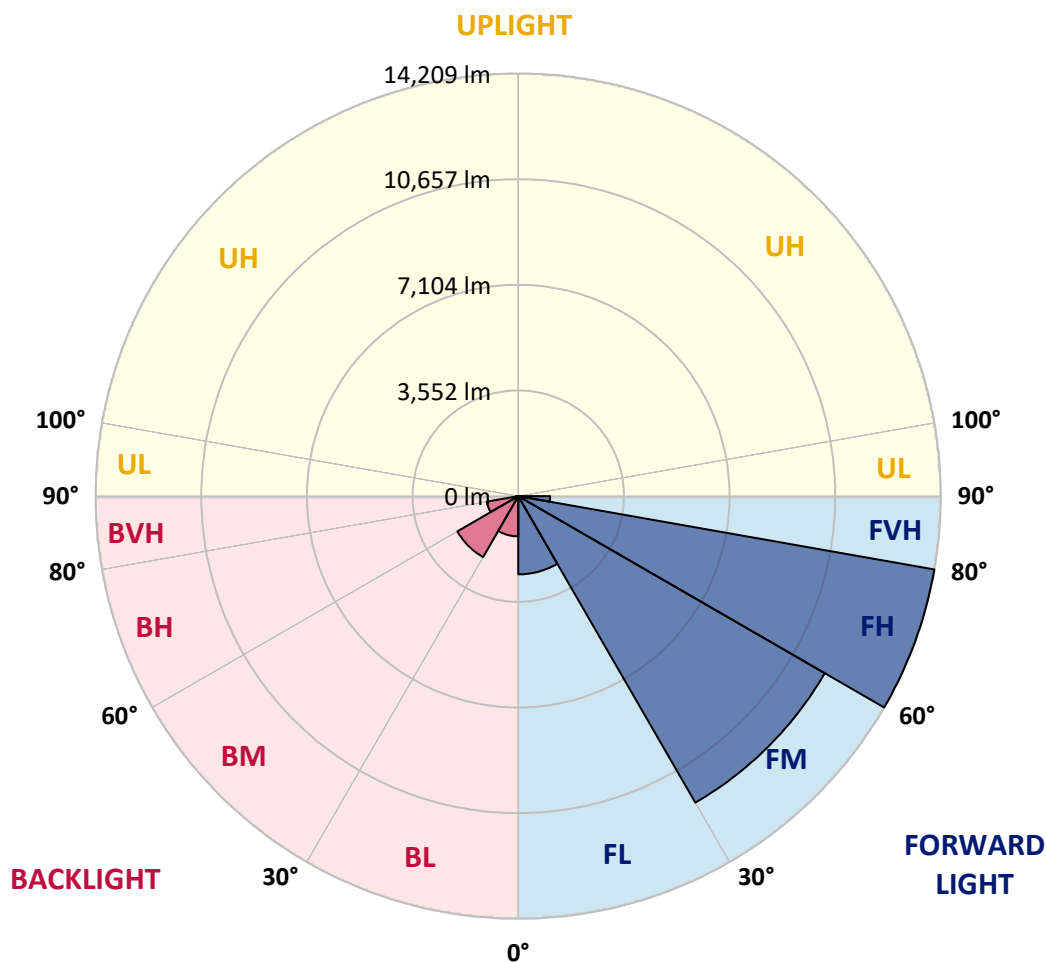
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2628.3	7.6			
FM (30°-60°)	11898.9	34.3			
FH (60°-80°)	14208.7	41.0			G5
FVH (80°-90°)	1072.6	3.1			G5
BL (0°-30°)	1352.1	3.9	B3/2500		
BM (30°-60°)	2366.3	6.8	B2/2500		
BH (60°-80°)	1072.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	84.9	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°	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0
2.5°	6321.5	6255.5	6267.1	6243.9	6267.1	6259.4	6247.7	6189.5	6247.7	6189.5	6174.0
5°	6236.1	6236.1	6274.9	6216.7	6224.5	6185.6	6224.5	6181.8	6143.0	6045.9	6018.8
7.5°	6208.9	6205.0	6208.9	6127.4	6166.2	6143.0	6104.2	6057.6	5980.0	5917.9	5828.6
10°	6022.7	6061.5	6018.8	6042.1	6073.1	6003.3	5999.4	5987.7	5952.8	5871.3	5817.0
12.5°	5921.8	5987.7	6011.0	5991.6	6018.8	6026.5	6003.3	5987.7	5945.1	5890.7	5735.5
15°	5964.5	5886.8	5952.8	6080.9	6053.7	6073.1	6077.0	6061.5	6042.1	5941.2	5840.3
17.5°	5976.1	5929.5	6069.2	6096.4	6131.3	6201.2	6154.6	6150.7	6077.0	6007.1	5859.7
20°	6003.3	5983.9	6096.4	6240.0	6243.9	6255.5	6278.8	6220.6	6181.8	6061.5	5836.4
22.5°	6104.2	6170.1	6274.9	6337.0	6371.9	6379.7	6379.7	6263.3	6220.6	6123.6	5945.1
25°	6406.8	6337.0	6484.5	6558.2	6507.7	6496.1	6468.9	6364.2	6317.6	6232.2	5995.5
27.5°	6628.0	6624.2	6709.5	6810.4	6674.6	6701.8	6604.7	6573.7	6468.9	6422.4	6084.8
30°	6930.7	7016.1	7012.2	7043.3	6864.7	6895.8	6771.6	6713.4	6655.2	6682.4	6348.6
32.5°	7318.8	7287.7	7338.2	7314.9	7136.4	7163.6	7016.1	6926.8	6946.2	7027.7	6709.5
35°	7567.1	7536.1	7555.5	7555.5	7501.2	7470.1	7408.0	7291.6	7384.7	7536.1	7113.1
37.5°	7834.9	7873.7	7986.2	7963.0	7893.1	7893.1	7885.3	7803.8	7924.1	8296.7	7757.3
40°	8071.6	8176.4	8246.2	8292.8	8374.3	8374.3	8440.3	8393.7	8611.0	9208.6	8545.0
42.5°	8320.0	8323.8	8704.1	8739.1	8921.5	8999.1	9049.5	9088.3	9495.8	10163.2	9387.1
45°	8638.2	8657.6	8991.3	9259.1	9542.3	9569.5	9759.7	9887.7	10388.3	11207.1	10302.9
47.5°	9057.3	9034.0	9391.0	9817.9	10171.0	10357.3	10586.2	10725.9	11342.9	12340.2	11304.1
50°	9608.3	9538.5	9744.1	10415.5	10830.7	11036.4	11443.8	11676.7	12398.5	13422.9	11991.0
52.5°	10279.7	10163.2	10326.2	11059.7	11525.3	11940.5	12328.6	12588.6	13341.4	14261.1	12499.4
55°	10989.8	10749.2	10795.8	11742.6	12414.0	12805.9	13337.6	13609.2	14377.6	15014.0	13007.7
57.5°	11692.2	11540.8	11447.7	12398.5	13473.4	13849.8	14338.7	14691.9	15343.8	15681.4	13438.5
60°	12282.0	12243.2	12091.9	13415.2	14594.9	14917.0	15429.2	15646.5	16139.3	16298.4	13446.2
62.5°	12767.1	12635.2	12875.8	14234.0	15735.8	16100.5	16663.2	16682.6	17031.9	16682.6	13050.4
65°	13147.4	13155.2	13539.3	15223.5	17055.2	17594.6	18048.6	17998.1	17773.1	16453.7	12115.2
67.5°	13492.8	13640.2	14202.9	16310.1	18751.0	19259.3	19763.8	19096.3	17974.9	15382.6	10287.4
70°	13764.4	13911.9	15099.3	17633.4	20749.5	21494.5	21607.1	19531.0	17047.4	13031.0	7761.2
72.5°	13733.4	14001.1	15607.7	18688.9	22522.9	23167.1	22259.0	18308.6	14202.9	9084.4	4528.6
73°	13799.3	13931.3	15565.0	18983.8	23062.3	23384.4	21956.3	17924.4	13395.8	8149.2	3830.1
75°	12526.5	12972.8	14792.8	18502.6	22484.1	22425.9	20217.8	14936.4	9522.9	4280.3	1854.9
77.5°	9266.8	9550.1	11657.3	15215.8	18456.0	18083.5	15250.7	9546.2	4520.9	1587.2	1001.2
80°	4528.6	4749.8	6177.9	8785.6	12068.6	12099.7	9464.7	4967.1	1936.4	896.4	683.0
82.5°	2262.4	2394.3	2968.6	3861.2	5937.3	6220.6	4800.3	2825.1	1199.1	508.4	388.1
85°	1478.5	1571.6	1827.8	1889.8	2518.5	2658.2	2235.2	2204.2	780.0	275.5	314.3
87.5°	981.8	997.3	1121.5	954.6	1009.0	970.1	1078.8	1389.2	229.0	116.4	85.4
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°	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0	6174.0
2.5°	6154.6	6100.3	6042.1	5960.6	5902.4	5813.1	5731.6	5696.7	5688.9	5692.8	5654.0
5°	5995.5	5917.9	5801.5	5634.6	5537.6	5390.1	5265.9	5200.0	5130.1	5141.8	5110.7
7.5°	5774.3	5688.9	5510.4	5316.4	5075.8	4866.2	4749.8	4586.8	4493.7	4423.9	4462.7
10°	5704.5	5557.0	5289.2	5021.5	4648.9	4373.4	4105.7	3919.4	3791.3	3667.1	3721.5
12.5°	5669.5	5522.1	5149.5	4753.7	4272.5	3853.4	3477.0	3248.0	3065.7	2957.0	2999.7
15°	5638.5	5456.1	5017.6	4458.8	3919.4	3368.3	2945.4	2642.7	2468.0	2363.3	2374.9
17.5°	5681.2	5421.2	4823.6	4171.6	3531.3	2941.5	2471.9	2157.6	1979.1	1913.1	1897.6
20°	5638.5	5382.4	4633.4	3884.5	3143.3	2534.0	2083.9	1823.9	1699.7	1645.4	1633.7
22.5°	5654.0	5289.2	4435.5	3566.3	2782.4	2192.5	1823.9	1626.0	1528.9	1501.8	1509.5
25°	5727.7	5234.9	4237.6	3217.0	2425.4	1940.3	1657.0	1505.7	1435.8	1408.7	1416.4
27.5°	5782.1	5281.5	4059.1	2887.2	2122.7	1715.2	1517.3	1416.4	1369.8	1350.4	1346.6
30°	5917.9	5308.6	3884.5	2592.2	1874.3	1567.8	1420.3	1338.8	1307.8	1296.1	1292.2
32.5°	6119.7	5359.1	3682.7	2320.6	1691.9	1428.1	1342.7	1272.8	1265.1	1253.4	1257.3
35°	6449.5	5533.7	3457.6	2087.8	1517.3	1334.9	1261.2	1214.6	1214.6	1214.6	1226.3
37.5°	6923.0	5778.2	3255.8	1866.6	1404.8	1253.4	1191.3	1175.8	1168.1	1179.7	1187.5
40°	7532.2	6073.1	3092.8	1691.9	1307.8	1199.1	1144.8	1137.0	1133.1	1129.2	1137.0
42.5°	8199.7	6449.5	2953.1	1556.1	1237.9	1140.9	1102.1	1094.3	1078.8	1086.6	1098.2
45°	8863.2	6915.2	2828.9	1447.5	1191.3	1109.8	1055.5	1051.6	1043.9	1040.0	1059.4
47.5°	9600.6	7373.1	2790.1	1381.5	1156.4	1063.3	1024.5	1020.6	997.3	993.4	1009.0
50°	10174.9	7710.7	2832.8	1350.4	1106.0	1028.4	1001.2	981.8	962.4	943.0	943.0
52.5°	10570.7	7943.6	2863.9	1327.2	1078.8	981.8	946.9	939.1	919.7	900.3	892.5
55°	10927.7	8083.3	2871.6	1331.0	1051.6	927.5	904.2	900.3	888.7	857.6	849.8
57.5°	11048.0	8025.0	2716.4	1296.1	1036.1	892.5	861.5	869.3	853.7	826.6	822.7
60°	11036.4	7621.5	2363.3	1249.5	1001.2	853.7	814.9	838.2	838.2	807.2	803.3
62.5°	10365.0	6690.1	1932.5	1160.3	962.4	814.9	772.2	807.2	818.8	799.4	795.5
65°	8971.9	5448.3	1614.3	1071.0	904.2	772.2	729.5	768.4	787.8	780.0	776.1
67.5°	7423.6	4167.7	1342.7	954.6	830.4	714.0	679.1	706.3	717.9	721.8	725.7
70°	5246.5	2774.6	1121.5	826.6	729.5	651.9	613.1	617.0	613.1	624.8	624.8
72.5°	2852.2	1598.8	911.9	702.4	628.7	566.6	539.4	520.0	520.0	516.1	516.1
73°	2440.9	1435.8	869.3	683.0	601.5	551.0	520.0	504.5	504.5	500.6	496.7
75°	1369.8	1051.6	745.1	586.0	520.0	481.2	457.9	434.6	430.7	430.7	430.7
77.5°	900.3	818.8	593.7	469.6	419.1	384.2	376.4	353.1	353.1	353.1	349.3
80°	675.2	644.2	457.9	357.0	322.1	294.9	287.2	271.6	267.8	252.2	256.1
82.5°	450.1	508.4	333.7	252.2	217.3	201.8	201.8	197.9	186.3	166.9	166.9
85°	357.0	415.2	240.6	155.2	128.1	108.7	112.5	108.7	104.8	85.4	81.5
87.5°	66.0	166.9	69.9	42.7	31.0	19.4	19.4	11.6	7.8	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)