

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: P478095

Luminaire Tested: **IFLD-S-SA6C-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478095
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

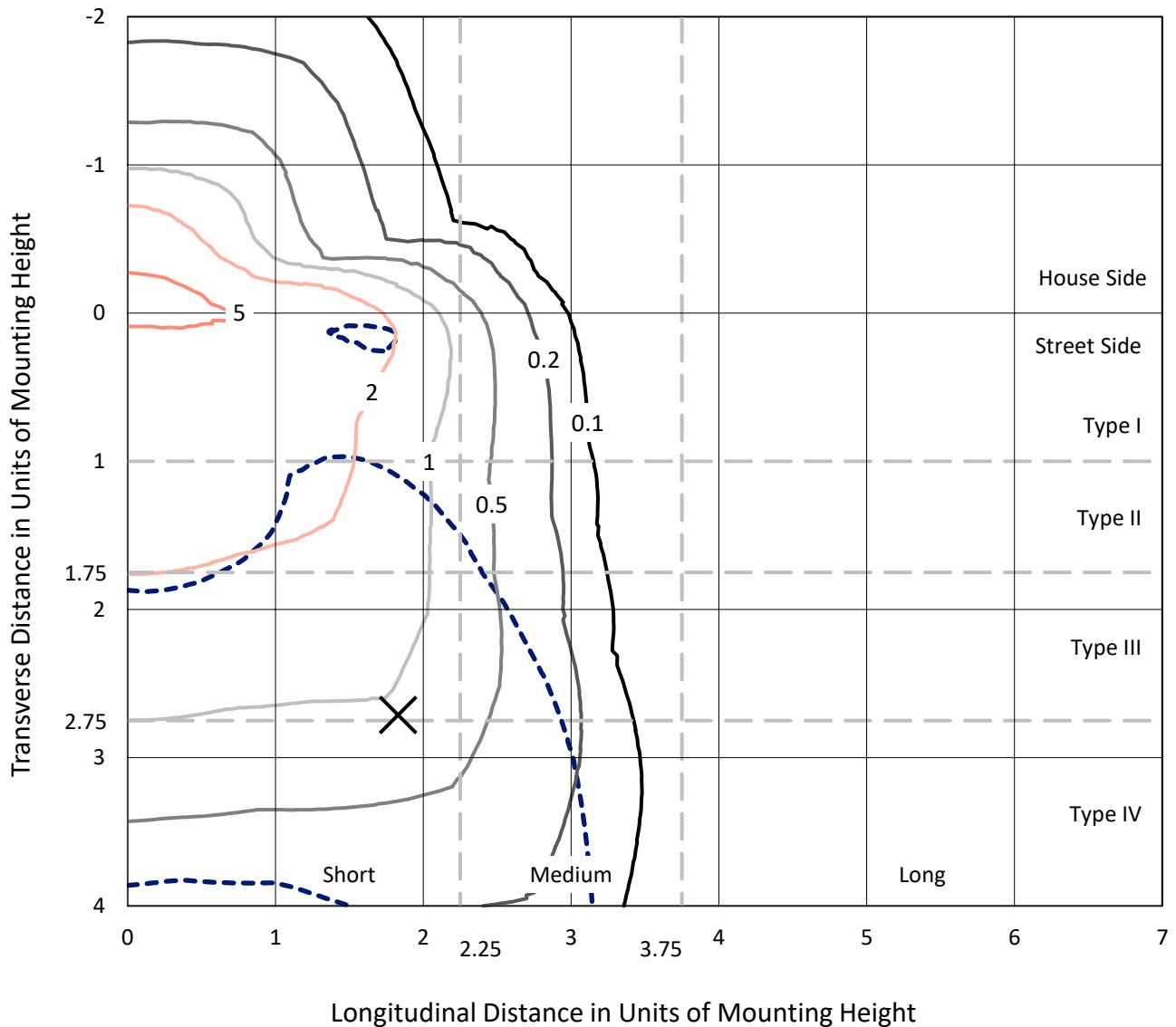
Lumens per Lamp: N/A
Luminaire Lumens: 38763.8 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

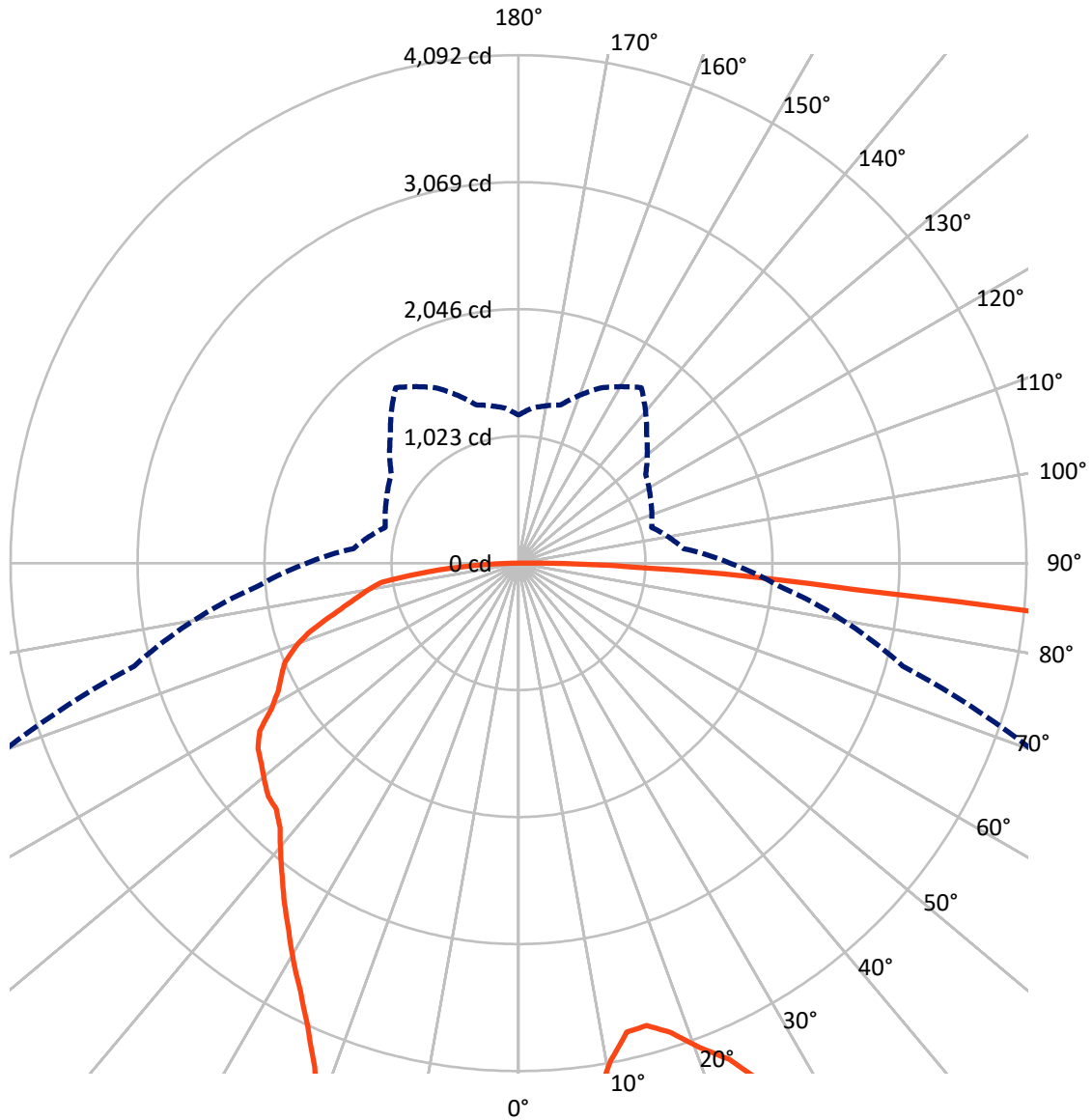
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8373.5	0.0	8373.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	30390.3	0.0	30390.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	38763.8	0.0	38763.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.9	1.3
10°-20°	1435.5	3.7
20°-30°	2362.5	6.1
30°-40°	3533.2	9.1
40°-50°	5237.8	13.5
50°-60°	7548.2	19.5
60°-70°	9632.5	24.8
70°-80°	7495.7	19.3
80°-90°	1005.6	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°	38763.8	100.0
0°-180°	38763.8	100.0



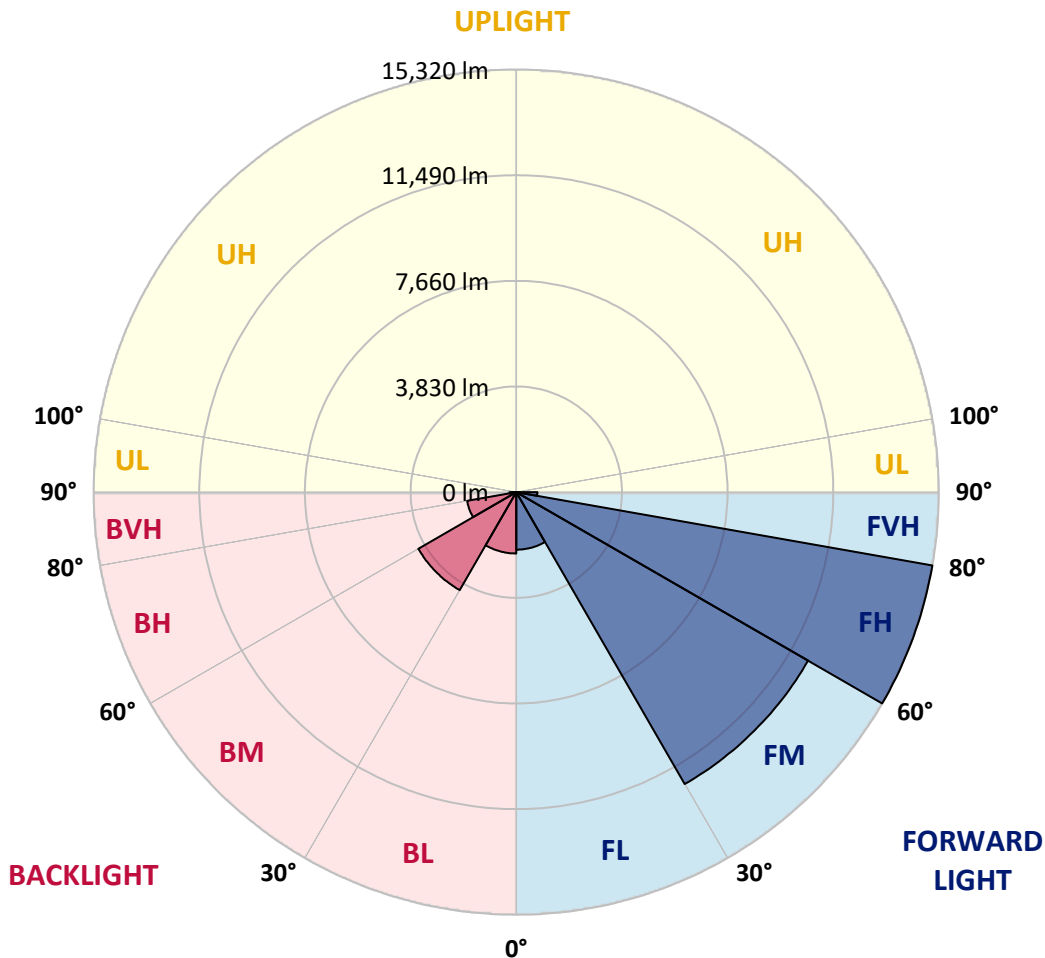
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.2	5.4			
FM (30°-60°)	12218.6	31.5			
FH (60°-80°)	15320.1	39.5			G5
FVH (80°-90°)	765.4	2.0			G5
BL (0°-30°)	2224.8	5.7	B3/2500		
BM (30°-60°)	4100.5	10.6	B3/5000		
BH (60°-80°)	1808.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	240.2	0.6			G3/500
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°	34°	35°	45°	55°	65°	75°	85°
0°	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4
2.5°	4979.5	4995.9	5049.2	5061.5	5118.9	5086.1	5155.8	5278.7	5348.4	5450.8	5573.8
5°	4586.1	4516.4	4549.2	4676.2	4741.8	4758.2	4832.0	5041.0	5172.1	5323.8	5553.3
7.5°	4123.0	4110.7	4176.2	4258.2	4389.4	4401.7	4565.6	4750.0	5020.5	5356.6	5627.1
10°	3807.4	3860.7	3897.6	3983.6	4073.8	4073.8	4282.8	4602.5	4909.9	5233.6	5643.5
12.5°	3791.0	3758.2	3766.4	3811.5	3877.1	3959.0	4155.8	4442.6	4832.0	5209.0	5713.1
15°	3844.3	3856.6	3782.8	3840.2	3864.8	3893.5	4110.7	4434.4	4782.8	5295.1	5832.0
17.5°	4127.1	4057.4	3942.6	3889.4	3975.4	3975.4	4123.0	4377.1	4791.0	5340.2	6004.1
20°	4348.4	4348.4	4159.8	4102.5	4163.9	4151.7	4254.1	4442.6	4832.0	5430.3	6196.7
22.5°	4721.3	4774.6	4463.1	4344.3	4340.2	4373.0	4463.1	4623.0	4946.7	5557.4	6381.2
25°	5258.2	5270.5	4909.9	4786.9	4655.8	4709.0	4725.4	4885.3	5049.2	5704.9	6590.2
27.5°	5856.6	5848.4	5516.4	5209.0	5123.0	5135.3	5045.1	5151.7	5200.8	5750.0	6889.4
30°	6520.5	6446.7	6196.7	5762.3	5692.6	5614.8	5418.1	5414.0	5516.4	6004.1	7303.3
32.5°	6954.9	6860.7	6688.5	6377.1	6184.4	6192.6	5881.2	5877.1	5786.9	6282.8	7664.0
35°	7381.2	7237.7	7192.6	6873.0	6680.3	6700.8	6450.8	6418.1	6254.1	6704.9	8258.2
37.5°	7893.5	7766.4	7836.1	7594.3	7356.6	7258.2	7143.5	7102.5	6889.4	7299.2	9069.7
40°	8459.0	8418.1	8373.0	8254.1	8110.7	8118.9	7995.9	7954.9	7639.4	8016.4	9848.4
42.5°	9221.3	9065.6	8832.0	8909.9	8983.6	9061.5	9020.5	8914.0	8586.1	8745.9	10717.2
45°	9930.4	9725.4	9295.1	9319.7	9623.0	9684.5	10180.4	10168.1	9508.2	9672.2	11705.0
47.5°	10409.9	10315.6	10057.4	10028.7	10463.1	10459.1	11352.5	11352.5	10479.5	10594.3	12766.4
50°	11123.0	10877.1	10766.4	10909.9	11131.2	11282.8	12549.2	12627.1	11434.5	11557.4	14155.8
52.5°	11959.1	11651.7	11373.0	11741.8	12135.3	12233.6	13733.7	13700.9	12168.1	12676.3	15782.8
55°	12651.7	12495.9	12303.3	12516.4	13159.9	13282.8	14922.2	14618.9	12901.7	13602.5	16565.6
57.5°	13459.1	13553.3	13594.3	13541.0	14307.4	14500.0	16278.7	15409.9	13532.8	14225.5	17024.6
60°	14676.3	14733.7	14786.9	14914.0	15725.5	15996.0	17352.5	16401.7	13930.4	14586.1	17061.5
62.5°	16528.7	16307.4	16426.3	16864.8	17516.5	17823.8	18934.5	17098.4	14233.7	14803.3	15856.6
65°	18647.6	18348.4	18225.5	18791.0	20479.6	20233.7	20909.9	17618.9	13795.1	13991.8	13446.8
67.5°	20795.1	20827.9	20512.4	21647.6	23717.3	23717.3	22746.0	17868.9	12606.6	11340.2	9430.4
70°	22500.1	22602.5	22774.7	24975.5	28254.2	28750.1	25020.6	16844.3	10184.5	7549.2	5155.8
72.5°	22475.5	22168.1	23049.3	27102.5	32377.2	31963.2	25496.0	13319.7	6356.6	3696.7	2364.8
73°	21971.4	21713.2	22676.3	27082.1	32545.2	32155.8	25147.6	12278.7	5606.6	3204.9	2102.5
75°	17942.7	17475.5	19114.8	24528.8	30110.8	30409.9	21364.8	8008.2	3073.8	1975.4	1479.5
77.5°	8180.4	8385.3	10520.5	16455.0	23205.0	23557.5	14045.1	3463.1	1684.4	1385.3	1090.2
80°	2627.1	2758.2	4094.3	8180.4	14545.1	15180.4	6491.8	1573.8	1200.8	1061.5	815.6
82.5°	1004.1	1000.0	1717.2	3401.7	6893.5	7299.2	2373.0	959.0	893.4	782.8	577.9
85°	352.5	368.9	647.5	1344.3	2713.1	2840.2	823.8	532.8	618.9	524.6	332.0
87.5°	123.0	127.0	229.5	487.7	934.4	987.7	229.5	213.1	307.4	303.3	168.0
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°	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4	5557.4
2.5°	5614.8	5651.7	5664.0	5811.5	5811.5	5811.5	5868.9	5868.9	5852.5	5811.5	5909.9
5°	5639.4	5704.9	5832.0	5959.0	5991.8	6020.5	6098.4	6032.8	6057.4	6016.4	6053.3
7.5°	5709.0	5799.2	6036.9	6114.8	6061.5	6123.0	6041.0	5995.9	5950.8	5967.2	5909.9
10°	5827.9	5942.6	6053.3	6196.7	6094.3	6032.8	5864.8	5823.8	5680.3	5631.2	5676.2
12.5°	5975.4	6114.8	6303.3	6250.0	6053.3	5877.1	5696.7	5524.6	5438.5	5315.6	5348.4
15°	6123.0	6282.8	6311.5	6221.3	5975.4	5754.1	5426.2	5184.4	5098.4	4987.7	5045.1
17.5°	6282.8	6434.4	6385.3	6151.7	5819.7	5483.6	5110.7	4873.0	4692.6	4623.0	4623.0
20°	6520.5	6594.3	6516.4	6036.9	5631.2	5188.5	4827.9	4557.4	4377.1	4348.4	4303.3
22.5°	6704.9	6823.8	6475.4	5868.9	5356.6	4803.3	4389.4	4286.9	4233.6	4188.5	4131.2
25°	6942.6	6938.5	6401.7	5713.1	4885.3	4344.3	4094.3	4086.1	4061.5	4045.1	4123.0
27.5°	7168.1	7073.8	6315.6	5327.9	4397.6	3995.9	3860.7	3950.8	3987.7	3963.1	3995.9
30°	7524.6	7368.9	6192.6	4918.0	3967.2	3643.5	3668.0	3791.0	3852.5	3889.4	3840.2
32.5°	7901.7	7664.0	5938.5	4491.8	3586.1	3422.1	3479.5	3606.6	3680.3	3721.3	3766.4
35°	8446.7	7893.5	5680.3	3934.4	3311.5	3286.9	3319.7	3389.4	3495.9	3524.6	3536.9
37.5°	9118.9	8241.8	5332.0	3487.7	3098.4	3127.1	3159.8	3184.4	3188.5	3241.8	3221.3
40°	9791.0	8536.9	4823.8	3061.5	2877.1	3032.8	3016.4	2971.3	2934.4	2885.3	2873.0
42.5°	10381.2	8795.1	4258.2	2700.8	2680.3	2934.4	2881.2	2766.4	2680.3	2643.5	2582.0
45°	11045.1	9159.9	3688.5	2475.4	2528.7	2815.6	2799.2	2623.0	2512.3	2381.2	2364.8
47.5°	11905.8	9541.0	3143.5	2241.8	2385.3	2770.5	2778.7	2553.3	2393.5	2217.2	2192.6
50°	13008.2	10090.2	2729.5	2143.4	2299.2	2704.9	2717.2	2459.0	2250.0	2069.7	2053.3
52.5°	14065.6	10651.7	2385.3	1991.8	2241.8	2627.1	2655.7	2373.0	2131.2	1905.7	1918.0
55°	14598.4	10446.8	2090.2	1881.2	2110.7	2500.0	2606.6	2311.5	1950.8	1795.1	1791.0
57.5°	14717.3	9942.7	1856.6	1766.4	2000.0	2364.8	2524.6	2127.1	1868.9	1737.7	1721.3
60°	14327.9	9061.5	1672.1	1643.4	1860.7	2225.4	2336.1	2028.7	1786.9	1680.3	1655.7
62.5°	13368.9	8147.6	1545.1	1586.1	1741.8	2073.8	2217.2	1959.0	1709.0	1635.3	1582.0
65°	10963.2	6700.8	1442.6	1475.4	1618.9	1926.2	2143.4	1881.2	1639.3	1569.7	1565.6
67.5°	7594.3	4618.9	1360.7	1422.1	1520.5	1819.7	2069.7	1795.1	1549.2	1524.6	1491.8
70°	3889.4	2463.1	1254.1	1303.3	1413.9	1684.4	1938.5	1704.9	1454.9	1450.8	1409.8
72.5°	1971.3	1442.6	1131.2	1204.9	1282.8	1508.2	1774.6	1586.1	1336.1	1291.0	1225.4
73°	1704.9	1336.1	1110.7	1176.2	1250.0	1459.0	1725.4	1557.4	1319.7	1254.1	1192.6
75°	1241.8	1053.3	995.9	1061.5	1118.9	1315.6	1561.5	1426.2	1213.1	1143.4	1086.1
77.5°	930.3	811.5	827.9	901.6	950.8	1135.2	1389.3	1291.0	1098.4	1004.1	979.5
80°	684.4	618.9	684.4	754.1	791.0	1000.0	1266.4	1118.9	926.2	819.7	799.2
82.5°	487.7	450.8	528.7	573.8	590.2	827.9	1139.3	893.4	700.8	561.5	516.4
85°	278.7	274.6	356.6	352.5	364.8	483.6	750.0	594.3	450.8	344.3	336.1
87.5°	123.0	135.2	180.3	143.4	151.6	229.5	319.7	221.3	184.4	102.5	77.9
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)