

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: P476899

Luminaire Tested: **IFLD-L-SA8A-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476899
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

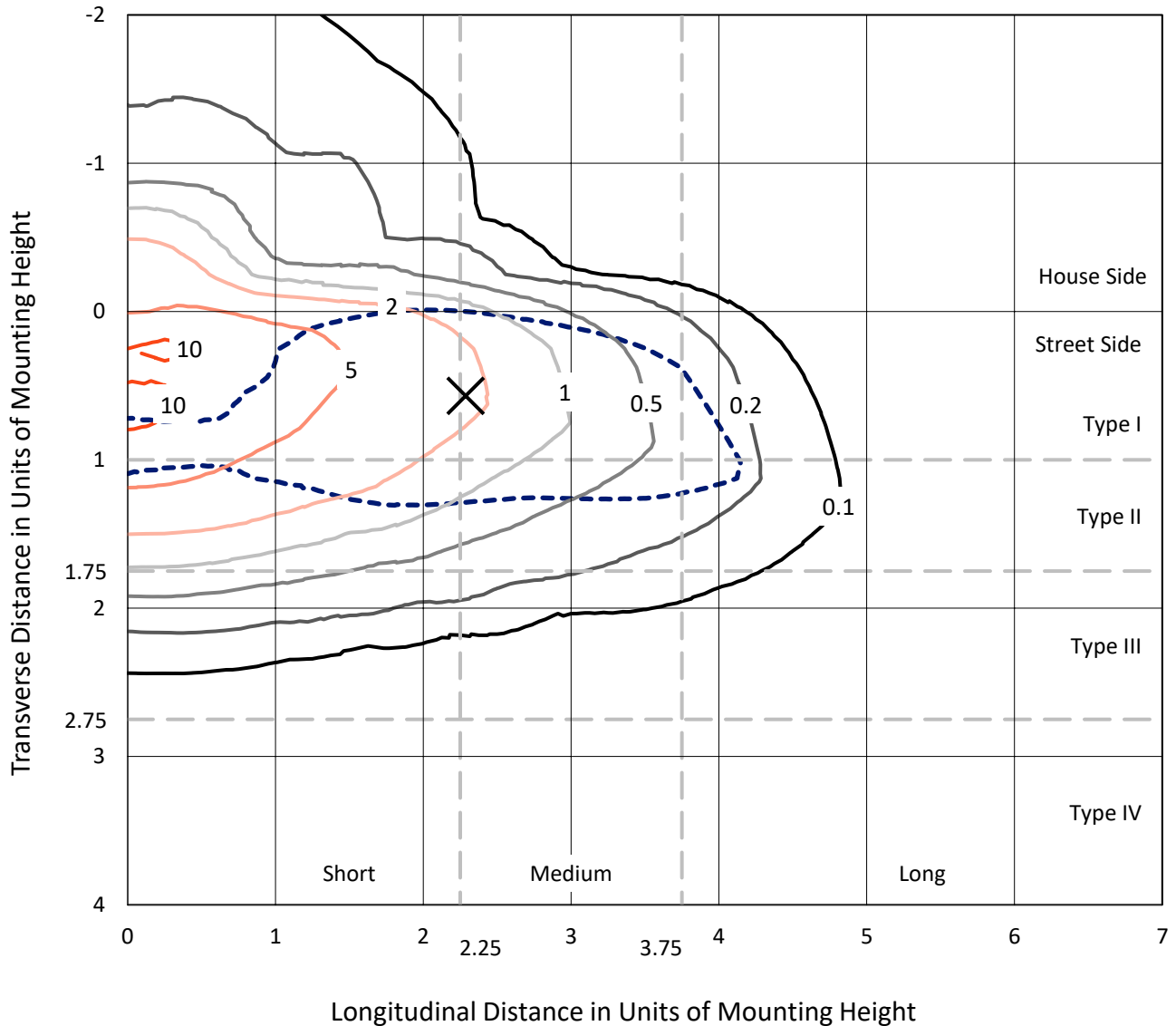
Lumens per Lamp: N/A
Luminaire Lumens: 28809.5 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

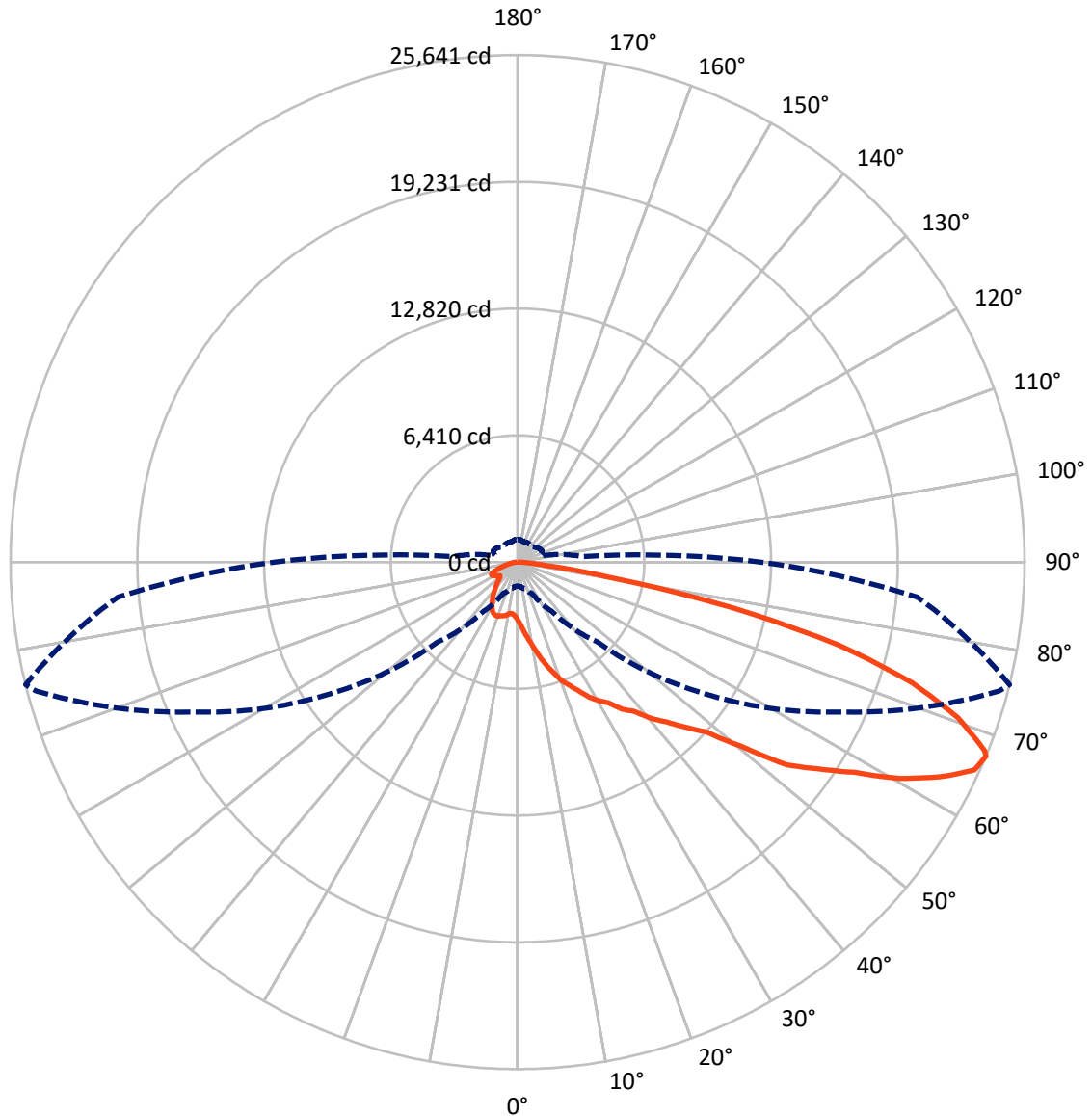
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4098.5	0.0	4098.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	24711.0	0.0	24711.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	28809.5	0.0	28809.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	1.2
10°-20°	1280.8	4.4
20°-30°	2381.2	8.3
30°-40°	3774.8	13.1
40°-50°	5220.9	18.1
50°-60°	6422.0	22.3
60°-70°	5976.0	20.7
70°-80°	2998.7	10.4
80°-90°	413.5	1.4
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°	28809.5	100.0
0°-180°	28809.5	100.0

Coefficient of Utilization



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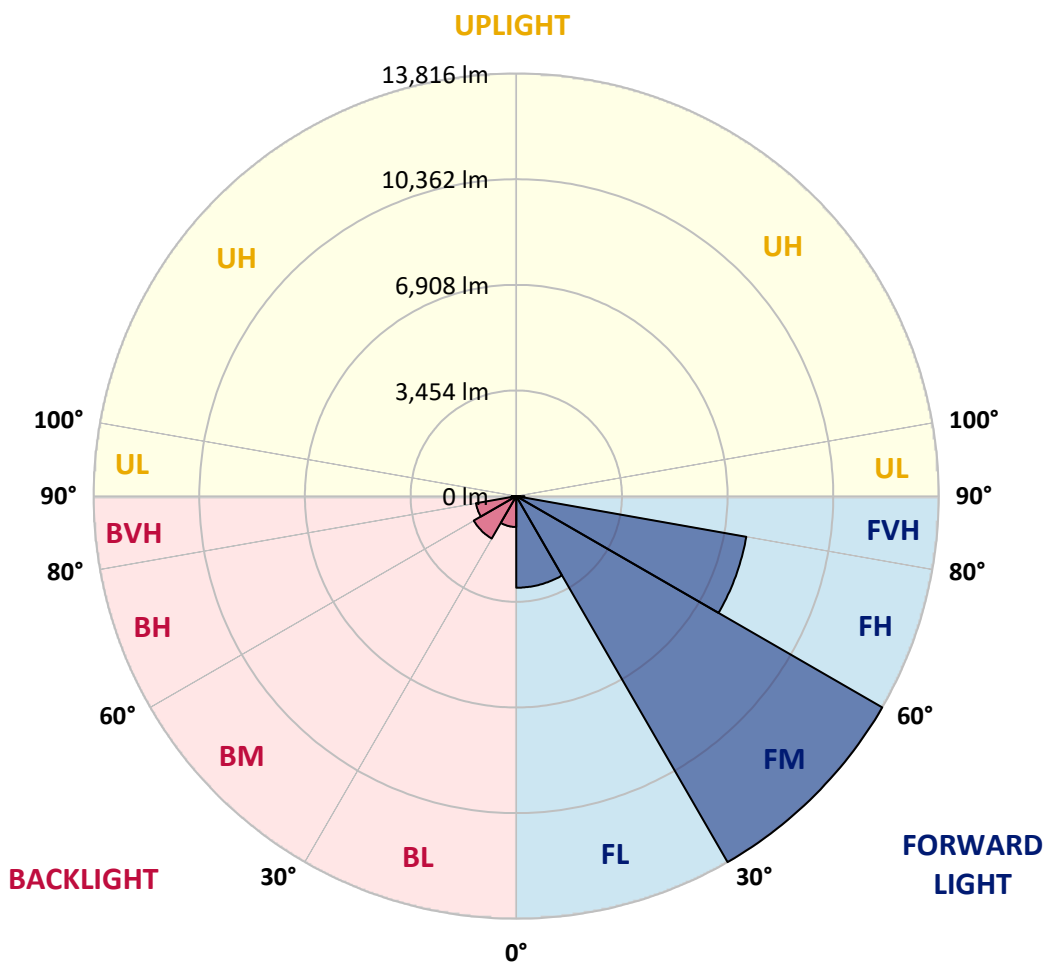
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2994.3	10.4			
FM (30°-60°)	13816.1	48.0			
FH (60°-80°)	7637.2	26.5			G4/12000
FVH (80°-90°)	263.4	0.9			G3/500
BL (0°-30°)	1009.3	3.5	B3/2500		
BM (30°-60°)	1601.6	5.6	B2/2500		
BH (60°-80°)	1337.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	150.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2
2.5°	4090.7	4041.5	3992.2	3887.2	3851.1	3752.6	3572.0	3371.7	3207.6	3184.6	3069.7
5°	5075.7	5003.4	4987.0	4927.9	4740.8	4550.4	4254.9	3933.1	3532.6	3562.1	3168.2
7.5°	5814.3	5771.7	5683.0	5627.2	5515.6	5262.8	4957.5	4530.7	4021.8	3923.3	3388.1
10°	6372.5	6313.4	6310.1	6260.8	6201.8	5942.4	5709.3	5134.7	4481.4	4346.8	3657.4
12.5°	6654.8	6645.0	6819.0	6819.0	6796.0	6687.6	6287.1	5761.8	4918.1	4872.1	3969.3
15°	6960.1	6878.1	7029.1	7144.0	7203.1	7258.9	6927.3	6372.5	5476.2	5387.5	4304.1
17.5°	6960.1	6953.6	7104.6	7295.0	7603.6	7675.9	7495.3	6933.9	5939.1	5873.4	4671.8
20°	6842.0	6937.2	7042.2	7298.3	7633.2	7925.4	7977.9	7508.4	6451.3	6398.7	5088.8
22.5°	7393.5	7301.6	7409.9	7508.4	7767.8	8211.0	8355.5	8014.0	6989.7	6789.4	5466.3
25°	8319.3	8257.0	8178.2	8033.7	8142.1	8335.8	8555.7	8388.3	7449.3	7226.1	5830.8
27.5°	9222.2	9225.5	9054.8	8739.6	8506.5	8545.9	8805.2	8716.6	7836.7	7738.2	6080.3
30°	10505.9	10427.1	10236.7	9809.9	9353.5	8979.2	8936.6	9021.9	8329.2	8138.8	6438.1
32.5°	11467.8	11484.2	11215.0	10601.1	9977.3	9672.0	9297.7	9333.8	8641.1	8499.9	6723.8
35°	12245.9	12226.2	12035.8	11526.9	10788.2	10420.5	9914.9	9708.1	9366.6	9143.4	7160.4
37.5°	13086.4	12925.5	12616.9	12042.4	11569.6	11060.7	10568.3	10102.1	9849.3	9580.0	7534.7
40°	13424.5	13424.5	13010.9	12748.2	12186.8	11802.7	11484.2	10620.8	10436.9	10384.4	8014.0
42.5°	13184.9	13332.6	13161.9	12863.1	12633.3	12147.4	12062.1	11159.2	11162.5	11057.4	8588.6
45°	13161.9	12958.3	12817.2	12892.7	12784.3	12758.1	12974.8	11904.5	11924.2	11911.0	9360.1
47.5°	12502.0	12410.1	12620.2	12744.9	12833.6	13240.7	13864.5	12794.2	12935.4	12836.9	10249.8
50°	11845.4	11829.0	11960.3	12413.4	12797.5	13467.2	14711.5	14166.5	14629.4	14622.9	11861.8
52.5°	10046.2	10220.2	10735.7	11694.4	12643.2	13775.8	15351.7	15919.7	16802.8	17042.5	13198.0
55°	8325.9	8234.0	8995.7	10387.7	11970.1	13897.3	16067.4	16973.6	18273.7	18447.7	14570.3
57.5°	6477.5	6648.3	7249.1	8585.3	10578.1	13296.5	16592.7	18014.3	19934.9	20069.5	16162.6
60°	4832.7	4855.7	5515.6	6592.4	8726.4	11940.6	16763.4	19081.3	21839.1	22223.2	17830.4
62.5°	3040.1	3178.0	3680.3	4740.8	6569.5	10043.0	15998.5	19728.1	23835.2	23937.0	19511.4
65°	1638.3	1726.9	2104.5	2770.9	4589.8	7597.1	13969.5	19340.7	24774.2	25378.3	20259.9
67°	1211.5	1227.9	1401.9	1769.6	3069.7	5719.1	11648.4	17938.8	25201.0	25640.9	20289.5
67.5°	1135.9	1158.9	1296.8	1589.0	2721.7	5266.1	11041.0	17439.8	25010.6	25483.3	20059.7
70°	971.8	978.4	1011.2	1093.3	1526.6	3168.2	7518.3	14291.3	23181.9	23634.9	18447.7
72.5°	863.5	870.0	883.2	899.6	1034.2	1832.0	4573.3	10998.3	20148.3	20870.6	15916.4
75°	758.4	781.4	787.9	774.8	879.9	1191.8	2432.8	8083.0	16435.1	16786.4	12377.2
77.5°	643.5	653.3	666.5	679.6	784.7	889.7	1168.8	5456.5	11280.7	11067.3	6694.2
80°	541.7	545.0	554.8	564.7	679.6	679.6	663.2	2948.2	4927.9	4711.2	2262.0
82.5°	387.4	410.4	433.4	459.6	564.7	456.3	433.4	1313.2	1559.5	1484.0	765.0
85°	151.0	183.9	285.6	315.2	357.9	246.2	288.9	568.0	650.1	643.5	285.6
87.5°	26.3	29.5	78.8	121.5	131.3	85.4	137.9	203.6	242.9	262.6	105.1
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°	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2
2.5°	2974.5	2872.7	2751.2	2629.8	2551.0	2426.2	2416.4	2340.8	2331.0	2304.7	2317.9
5°	2997.5	2876.0	2629.8	2436.1	2347.4	2275.2	2291.6	2258.8	2248.9	2232.5	2206.2
7.5°	3178.0	2938.4	2570.7	2403.2	2337.6	2304.7	2304.7	2265.3	2235.8	2255.5	2275.2
10°	3296.2	2967.9	2616.6	2449.2	2396.7	2324.4	2350.7	2301.4	2317.9	2278.5	2278.5
12.5°	3486.6	3135.3	2711.8	2518.1	2432.8	2367.1	2393.4	2337.6	2324.4	2327.7	2317.9
15°	3742.7	3247.0	2754.5	2557.5	2498.4	2416.4	2396.7	2347.4	2298.2	2281.7	2301.4
17.5°	3982.4	3384.9	2784.1	2580.5	2485.3	2393.4	2370.4	2308.0	2291.6	2242.3	2203.0
20°	4268.0	3549.0	2823.5	2600.2	2436.1	2344.1	2285.0	2222.6	2166.8	2137.3	2150.4
22.5°	4458.4	3634.4	2843.2	2560.8	2363.8	2278.5	2153.7	2111.0	2032.2	1999.4	1973.1
25°	4770.3	3739.4	2793.9	2452.5	2235.8	2097.9	1986.3	1927.2	1871.4	1828.7	1815.5
27.5°	4849.1	3818.2	2679.0	2268.6	2032.2	1887.8	1792.6	1720.3	1684.2	1618.6	1605.4
30°	5078.9	3739.4	2508.3	2045.4	1838.5	1690.8	1595.6	1543.1	1457.7	1441.3	1405.2
32.5°	5226.7	3762.4	2291.6	1828.7	1615.3	1484.0	1421.6	1369.0	1346.1	1267.3	1247.6
35°	5472.9	3683.6	2071.6	1628.4	1431.4	1329.7	1277.1	1260.7	1185.2	1149.1	1116.2
37.5°	5630.5	3637.7	1851.7	1401.9	1231.2	1188.5	1204.9	1135.9	1044.0	975.1	952.1
40°	5906.3	3621.2	1602.1	1214.7	1093.3	1083.4	1135.9	1004.6	837.2	778.1	745.3
42.5°	6303.5	3509.6	1408.4	1047.3	984.9	1027.6	1037.5	837.2	742.0	692.7	669.7
45°	6684.4	3532.6	1218.0	866.7	856.9	919.3	896.3	709.1	653.3	617.2	636.9
47.5°	7416.5	3647.5	1030.9	722.3	771.5	830.6	696.0	633.6	581.1	554.8	558.1
50°	8549.2	3759.1	866.7	659.9	728.8	751.8	597.5	574.5	571.3	518.7	515.4
52.5°	9228.8	3716.5	837.2	738.7	781.4	751.8	650.1	633.6	607.4	584.4	558.1
55°	10308.9	3841.2	899.6	863.5	886.4	722.3	728.8	722.3	702.6	643.5	659.9
57.5°	11169.1	3923.3	981.6	965.2	952.1	751.8	761.7	765.0	751.8	725.6	748.5
60°	12351.0	4087.4	1067.0	1070.3	1073.6	817.5	833.9	853.6	850.3	840.5	847.0
62.5°	13076.5	4011.9	1162.2	1214.7	1198.3	952.1	948.8	961.9	961.9	978.4	988.2
65°	12968.2	3732.9	1211.5	1342.8	1257.4	1050.6	1050.6	1057.2	1060.4	1093.3	1096.6
67°	12318.1	3233.8	1185.2	1362.5	1257.4	1090.0	1090.0	1096.6	1073.6	1158.9	1132.7
67.5°	12016.1	3086.1	1162.2	1346.1	1247.6	1086.7	1086.7	1090.0	1070.3	1152.4	1126.1
70°	10450.1	2291.6	1001.3	1191.8	1155.6	1057.2	1057.2	1037.5	1021.0	1129.4	1106.4
72.5°	8920.1	1664.5	804.4	1014.5	1044.0	1017.8	1024.3	975.1	929.1	1004.6	984.9
75°	6832.1	1224.6	627.1	781.4	883.2	952.1	994.8	870.0	810.9	830.6	794.5
77.5°	3811.7	797.8	495.7	577.8	673.0	886.4	955.4	784.7	663.2	640.2	640.2
80°	1293.5	466.2	364.4	430.1	462.9	784.7	893.0	636.9	522.0	499.0	482.6
82.5°	489.2	285.6	249.5	295.5	295.5	620.5	728.8	489.2	394.0	508.9	518.7
85°	223.2	170.7	164.2	170.7	170.7	380.8	515.4	318.5	354.6	305.3	269.2
87.5°	88.6	82.1	75.5	72.2	59.1	65.7	177.3	85.4	160.9	42.7	39.4
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)