

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: P476962

Luminaire Tested: **IFLD-S-SA6A-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476962
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

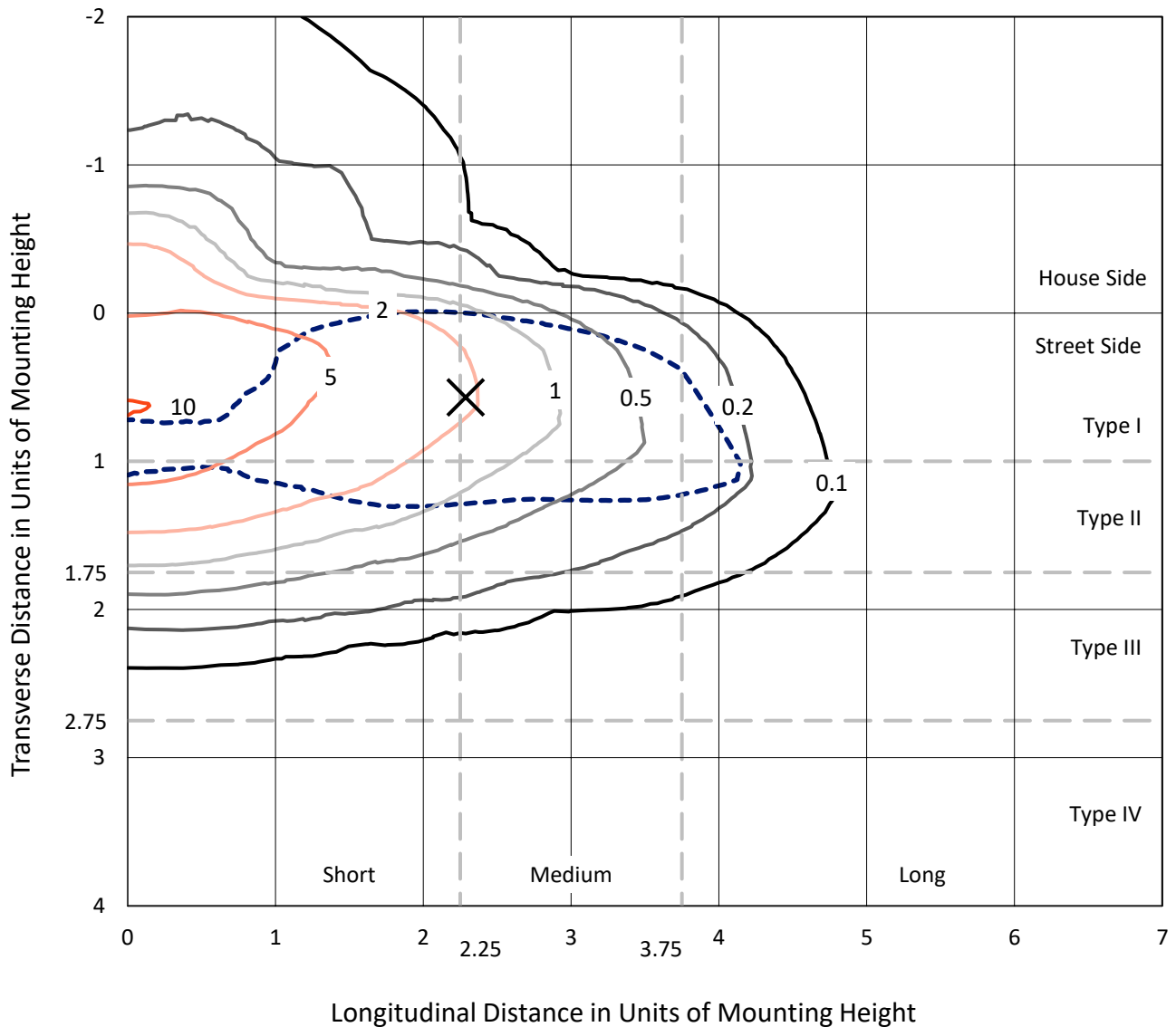
Lumens per Lamp: N/A
Luminaire Lumens: 26769.8 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.6
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

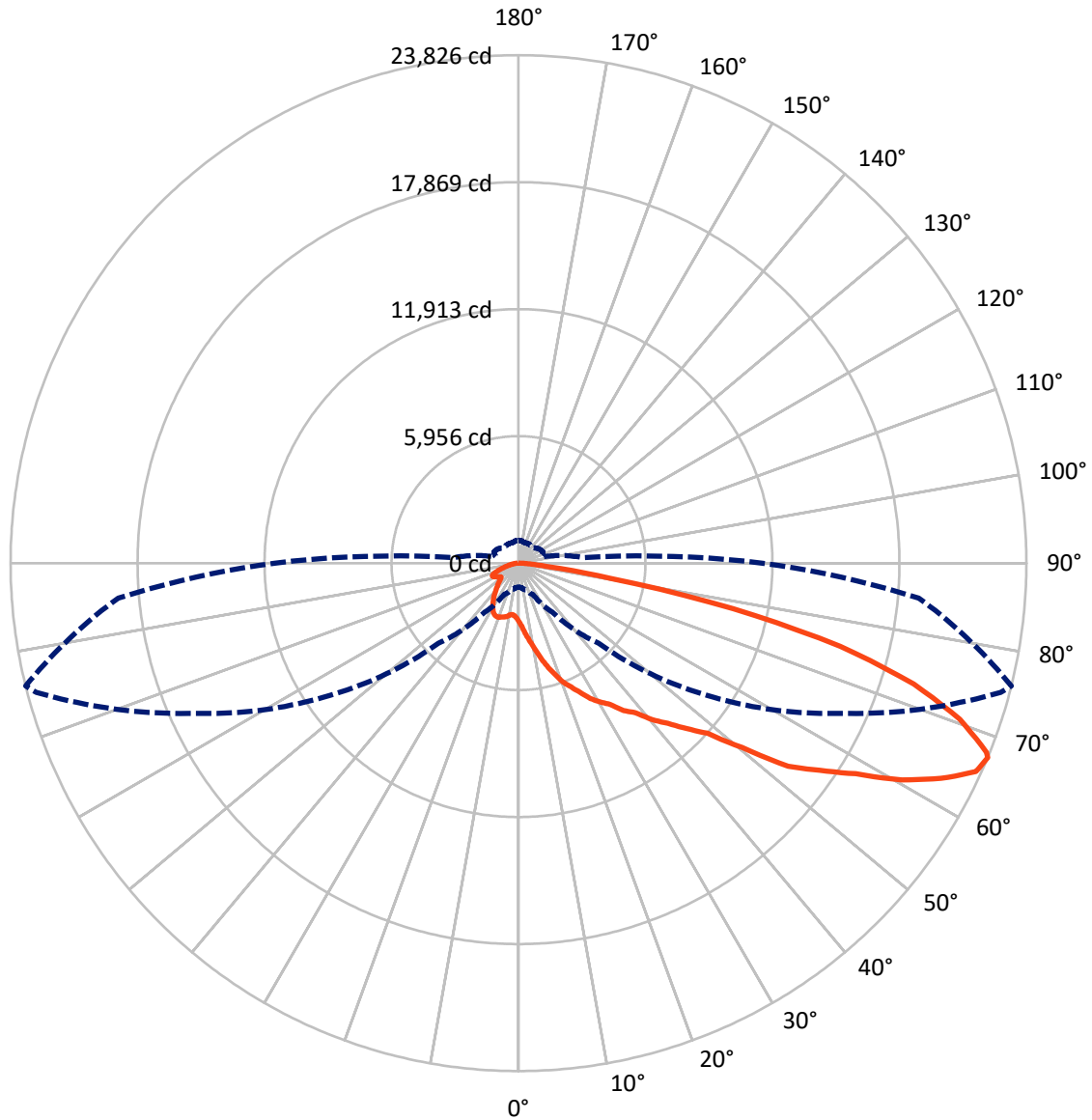
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	3808.3	0.0	3808.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	22961.4	0.0	22961.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	26769.8	0.0	26769.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.3	1.2
10°-20°	1190.1	4.4
20°-30°	2212.6	8.3
30°-40°	3507.5	13.1
40°-50°	4851.3	18.1
50°-60°	5967.3	22.3
60°-70°	5552.9	20.7
70°-80°	2786.4	10.4
80°-90°	384.2	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°	26769.8	100.0
0°-180°	26769.8	100.0

Coefficient of Utilization



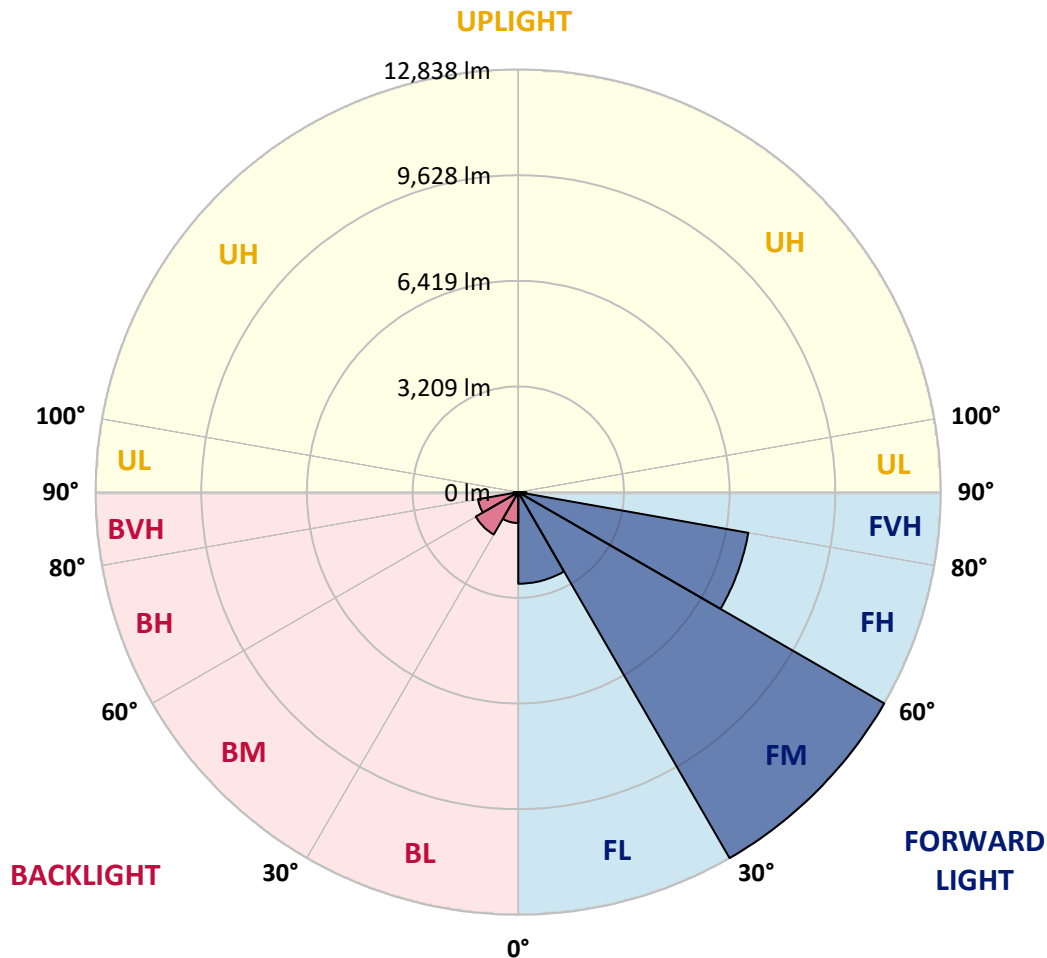
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.3	10.4			
FM (30°-60°)	12837.9	48.0			
FH (60°-80°)	7096.5	26.5			G3/7500
FVH (80°-90°)	244.8	0.9			G3/500
BL (0°-30°)	937.8	3.5	B2/1000		
BM (30°-60°)	1488.2	5.6	B2/2500		
BH (60°-80°)	1242.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	139.4	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5
2.5°	3801.1	3755.3	3709.6	3612.0	3578.4	3486.9	3319.1	3133.0	2980.5	2959.1	2852.4
5°	4716.3	4649.2	4633.9	4579.0	4405.1	4228.2	3953.6	3654.7	3282.5	3309.9	2943.9
7.5°	5402.7	5363.0	5280.7	5228.8	5125.1	4890.2	4606.5	4209.9	3737.0	3645.5	3148.3
10°	5921.3	5866.4	5863.3	5817.6	5762.7	5521.7	5305.1	4771.2	4164.1	4039.1	3398.4
12.5°	6183.7	6174.5	6336.2	6336.2	6314.8	6214.2	5842.0	5353.9	4569.9	4527.2	3688.2
15°	6467.4	6391.1	6531.4	6638.2	6693.1	6745.0	6436.9	5921.3	5088.5	5006.1	3999.4
17.5°	6467.4	6461.3	6601.6	6778.5	7065.3	7132.4	6964.6	6443.0	5518.6	5457.6	4341.1
20°	6357.5	6446.0	6543.6	6781.6	7092.7	7364.3	7413.1	6976.8	5994.5	5945.7	4728.5
22.5°	6870.1	6784.6	6885.3	6976.8	7217.8	7629.7	7763.9	7446.6	6494.8	6308.7	5079.3
25°	7730.3	7672.4	7599.2	7464.9	7565.6	7745.6	7950.0	7794.4	6921.9	6714.5	5417.9
27.5°	8569.3	8572.3	8413.7	8120.8	7904.2	7940.8	8181.8	8099.5	7281.9	7190.4	5649.8
30°	9762.1	9688.8	9511.9	9115.3	8691.3	8343.5	8303.9	8383.2	7739.5	7562.5	5982.3
32.5°	10655.9	10671.2	10421.0	9850.5	9270.9	8987.2	8639.4	8673.0	8029.3	7898.1	6247.7
35°	11378.9	11360.6	11183.7	10710.8	10024.4	9682.7	9212.9	9020.8	8703.5	8496.0	6653.5
37.5°	12159.9	12010.4	11723.6	11189.8	10750.5	10277.6	9820.0	9386.8	9151.9	8901.8	7001.2
40°	12474.1	12474.1	12089.7	11845.7	11324.0	10967.1	10671.2	9868.8	9698.0	9649.2	7446.6
42.5°	12251.4	12388.7	12230.0	11952.4	11738.9	11287.4	11208.1	10369.1	10372.2	10274.6	7980.5
45°	12230.0	12040.9	11909.7	11979.9	11879.2	11854.8	12056.1	11061.6	11079.9	11067.7	8697.4
47.5°	11616.9	11531.4	11726.7	11842.6	11925.0	12303.2	12882.9	11888.4	12019.5	11928.0	9524.1
50°	11006.7	10991.5	11113.5	11534.5	11891.4	12513.7	13669.9	13163.5	13593.7	13587.6	11022.0
52.5°	9335.0	9496.7	9975.6	10866.4	11748.0	12800.5	14264.8	14792.6	15613.2	15835.9	12263.6
55°	7736.4	7651.0	8358.8	9652.2	11122.6	12913.4	14929.9	15771.8	16979.9	17141.6	13538.8
57.5°	6018.9	6177.6	6735.8	7977.4	9829.2	12355.1	15418.0	16738.9	18523.5	18648.6	15018.3
60°	4490.5	4511.9	5125.1	6125.7	8108.6	11095.2	15576.6	17730.3	20292.9	20649.8	16568.0
62.5°	2824.9	2953.0	3419.8	4405.1	6104.3	9331.9	14865.8	18331.3	22147.7	22242.2	18130.0
65°	1522.3	1604.6	1955.5	2574.7	4264.8	7059.2	12980.5	17971.3	23020.2	23581.5	18825.5
67°	1125.7	1140.9	1302.6	1644.3	2852.4	5314.2	10823.7	16668.7	23416.7	23825.5	18853.0
67.5°	1055.5	1076.9	1205.0	1476.5	2529.0	4893.2	10259.3	16205.0	23239.8	23679.1	18639.4
70°	903.0	909.1	939.6	1015.9	1418.5	2943.9	6986.0	13279.5	21540.6	21961.6	17141.6
72.5°	802.3	808.4	820.6	835.9	961.0	1702.3	4249.5	10219.7	18721.8	19392.9	14789.5
75°	704.7	726.1	732.2	720.0	817.6	1107.4	2260.5	7510.7	15271.5	15597.9	11500.9
77.5°	597.9	607.1	619.3	631.5	729.1	826.7	1086.0	5070.2	10482.0	10283.7	6220.3
80°	503.4	506.4	515.6	524.7	631.5	631.5	616.2	2739.5	4579.0	4377.7	2101.9
82.5°	360.0	381.3	402.7	427.1	524.7	424.0	402.7	1220.3	1449.1	1378.9	710.8
85°	140.3	170.8	265.4	292.9	332.5	228.8	268.5	527.8	604.0	597.9	265.4
87.5°	24.4	27.5	73.2	112.9	122.0	79.3	128.1	189.1	225.7	244.1	97.6
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°	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5	2739.5
2.5°	2763.9	2669.3	2556.4	2443.6	2370.4	2254.4	2245.3	2175.1	2166.0	2141.6	2153.8
5°	2785.2	2672.4	2443.6	2263.6	2181.2	2114.1	2129.3	2098.8	2089.7	2074.4	2050.0
7.5°	2953.0	2730.3	2388.7	2233.1	2172.1	2141.6	2141.6	2104.9	2077.5	2095.8	2114.1
10°	3062.8	2757.8	2431.4	2275.8	2227.0	2159.9	2184.3	2138.5	2153.8	2117.1	2117.1
12.5°	3239.8	2913.4	2519.8	2339.8	2260.5	2199.5	2223.9	2172.1	2159.9	2162.9	2153.8
15°	3477.7	3017.1	2559.5	2376.5	2321.5	2245.3	2227.0	2181.2	2135.5	2120.2	2138.5
17.5°	3700.4	3145.2	2586.9	2397.8	2309.3	2223.9	2202.6	2144.6	2129.3	2083.6	2047.0
20°	3965.8	3297.7	2623.6	2416.1	2263.6	2178.2	2123.2	2065.3	2013.4	1986.0	1998.2
22.5°	4142.8	3377.1	2641.9	2379.5	2196.5	2117.1	2001.2	1961.6	1888.3	1857.8	1833.4
25°	4432.6	3474.7	2596.1	2278.8	2077.5	1949.4	1845.6	1790.7	1738.9	1699.2	1687.0
27.5°	4505.8	3547.9	2489.3	2108.0	1888.3	1754.1	1665.7	1598.5	1565.0	1504.0	1491.8
30°	4719.3	3474.7	2330.7	1900.6	1708.4	1571.1	1482.6	1433.8	1354.5	1339.2	1305.7
32.5°	4856.6	3496.0	2129.3	1699.2	1500.9	1378.9	1320.9	1272.1	1250.8	1177.5	1159.2
35°	5085.4	3422.8	1925.0	1513.1	1330.1	1235.5	1186.7	1171.4	1101.3	1067.7	1037.2
37.5°	5231.9	3380.1	1720.6	1302.6	1144.0	1104.3	1119.6	1055.5	970.1	906.0	884.7
40°	5488.1	3364.9	1488.7	1128.7	1015.9	1006.7	1055.5	933.5	777.9	723.0	692.5
42.5°	5857.2	3261.1	1308.7	973.2	915.2	954.9	964.0	777.9	689.4	643.7	622.3
45°	6211.1	3282.5	1131.8	805.4	796.2	854.2	832.8	658.9	607.1	573.5	591.8
47.5°	6891.4	3389.3	957.9	671.1	716.9	771.8	646.7	588.8	540.0	515.6	518.6
50°	7943.9	3493.0	805.4	613.2	677.2	698.6	555.2	533.9	530.8	482.0	479.0
52.5°	8575.4	3453.3	777.9	686.4	726.1	698.6	604.0	588.8	564.4	543.0	518.6
55°	9579.0	3569.3	835.9	802.3	823.7	671.1	677.2	671.1	652.8	597.9	613.2
57.5°	10378.3	3645.5	912.1	896.9	884.7	698.6	707.7	710.8	698.6	674.2	695.5
60°	11476.5	3798.1	991.5	994.5	997.6	759.6	774.9	793.2	790.1	781.0	787.1
62.5°	12150.7	3727.9	1079.9	1128.7	1113.5	884.7	881.6	893.8	893.8	909.1	918.2
65°	12050.0	3468.6	1125.7	1247.7	1168.4	976.2	976.2	982.3	985.4	1015.9	1018.9
67°	11446.0	3004.9	1101.3	1266.0	1168.4	1012.8	1012.8	1018.9	997.6	1076.9	1052.5
67.5°	11165.4	2867.6	1079.9	1250.8	1159.2	1009.8	1009.8	1012.8	994.5	1070.8	1046.4
70°	9710.2	2129.3	930.4	1107.4	1073.8	982.3	982.3	964.0	948.8	1049.4	1028.1
72.5°	8288.6	1546.7	747.4	942.6	970.1	945.7	951.8	906.0	863.3	933.5	915.2
75°	6348.4	1137.9	582.7	726.1	820.6	884.7	924.3	808.4	753.5	771.8	738.3
77.5°	3541.8	741.3	460.6	536.9	625.4	823.7	887.7	729.1	616.2	594.9	594.9
80°	1202.0	433.2	338.6	399.6	430.1	729.1	829.8	591.8	485.1	463.7	448.4
82.5°	454.5	265.4	231.8	274.6	274.6	576.6	677.2	454.5	366.1	472.8	482.0
85°	207.4	158.6	152.5	158.6	158.6	353.9	479.0	295.9	329.5	283.7	250.2
87.5°	82.4	76.3	70.2	67.1	54.9	61.0	164.7	79.3	149.5	39.7	36.6
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)