

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: P477016

Luminaire Tested: **IFLD-L-SA8A-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477016
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

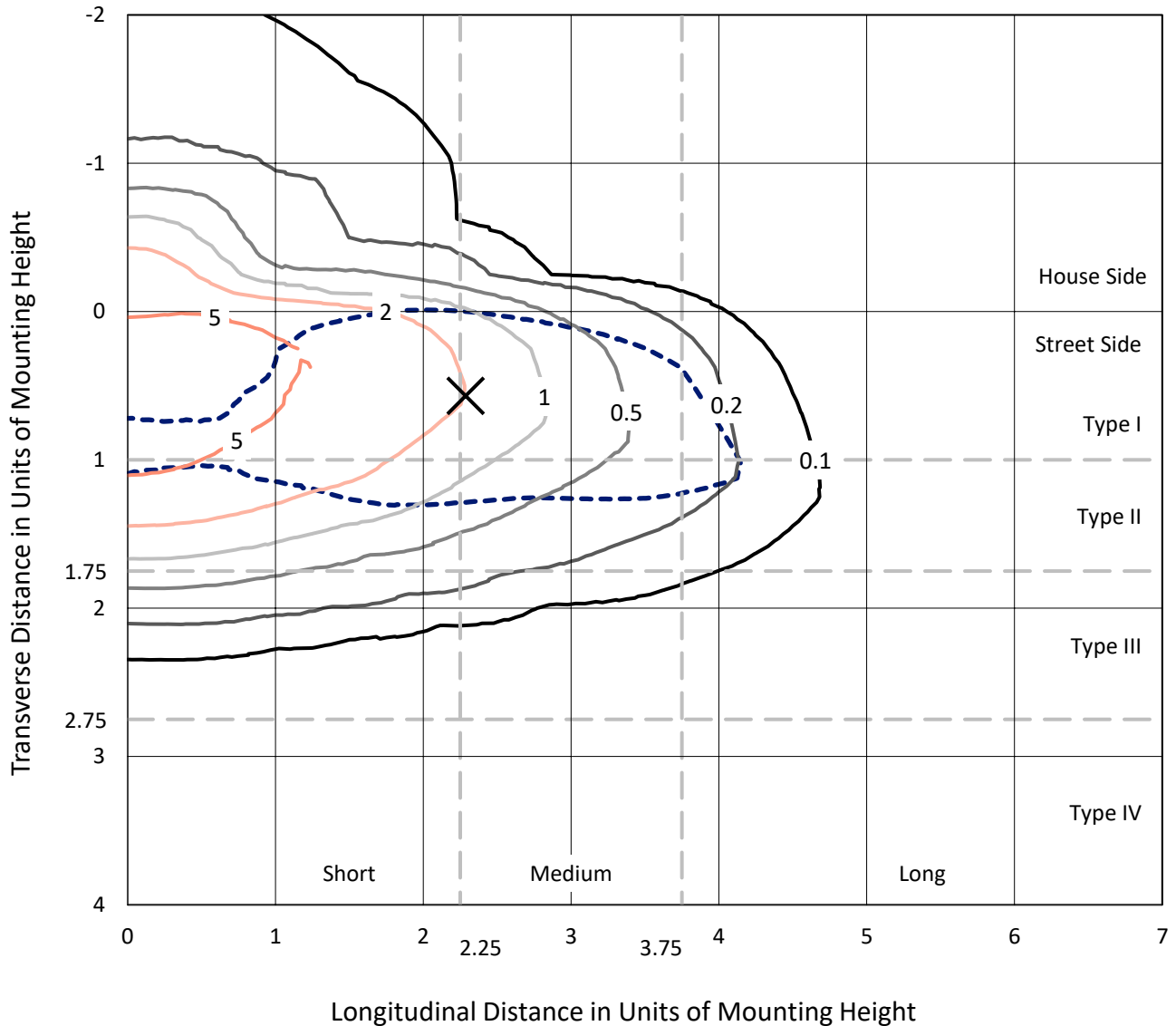
Lumens per Lamp: N/A
Luminaire Lumens: 34448.8 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

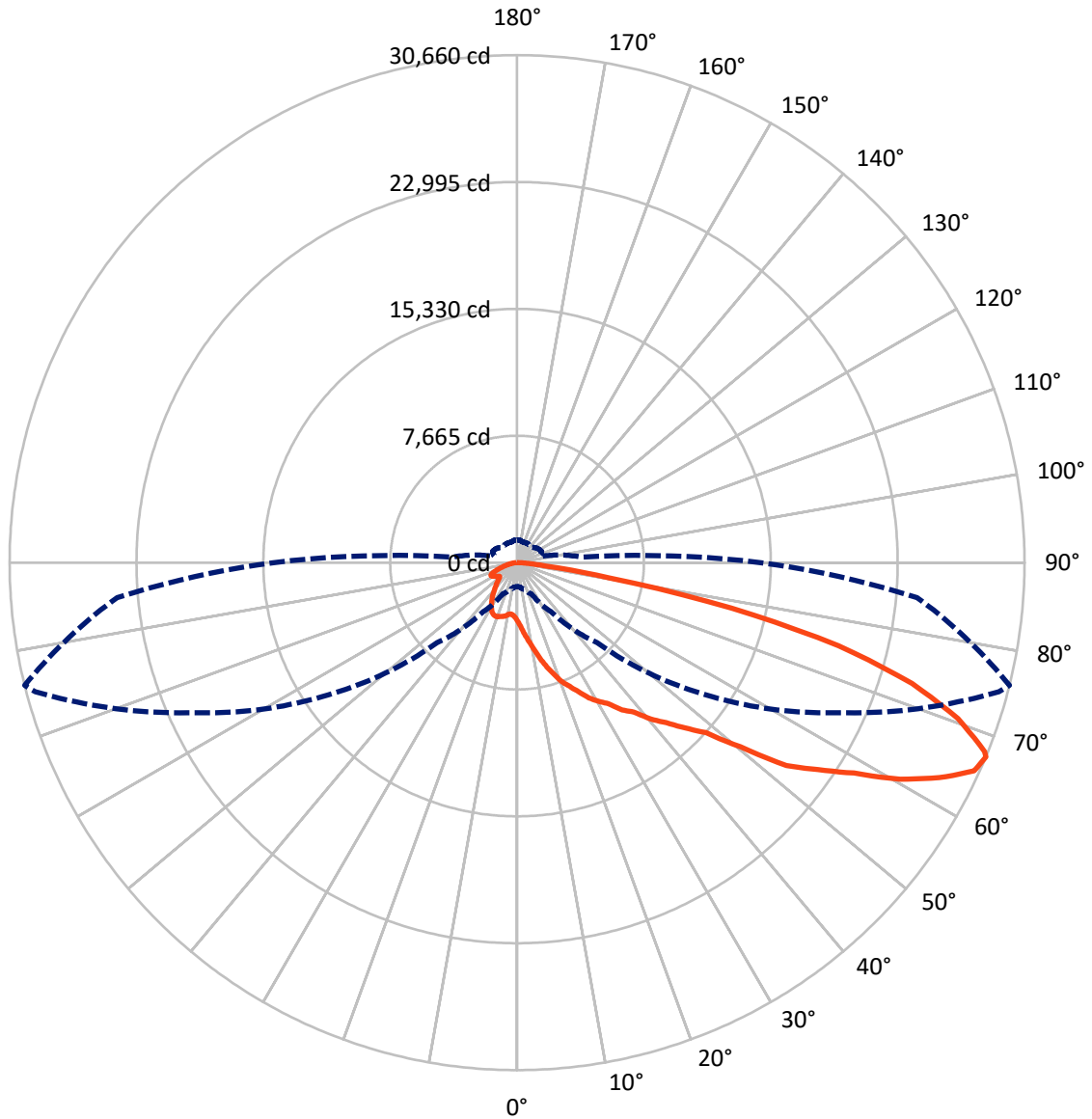
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 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	4900.8	0.0	4900.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	29548.0	0.0	29548.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	34448.8	0.0	34448.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.4	1.2
10°-20°	1531.5	4.4
20°-30°	2847.4	8.3
30°-40°	4513.7	13.1
40°-50°	6242.8	18.1
50°-60°	7679.1	22.3
60°-70°	7145.8	20.7
70°-80°	3585.7	10.4
80°-90°	494.4	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°	34448.8	100.0
0°-180°	34448.8	100.0

Coefficient of Utilization



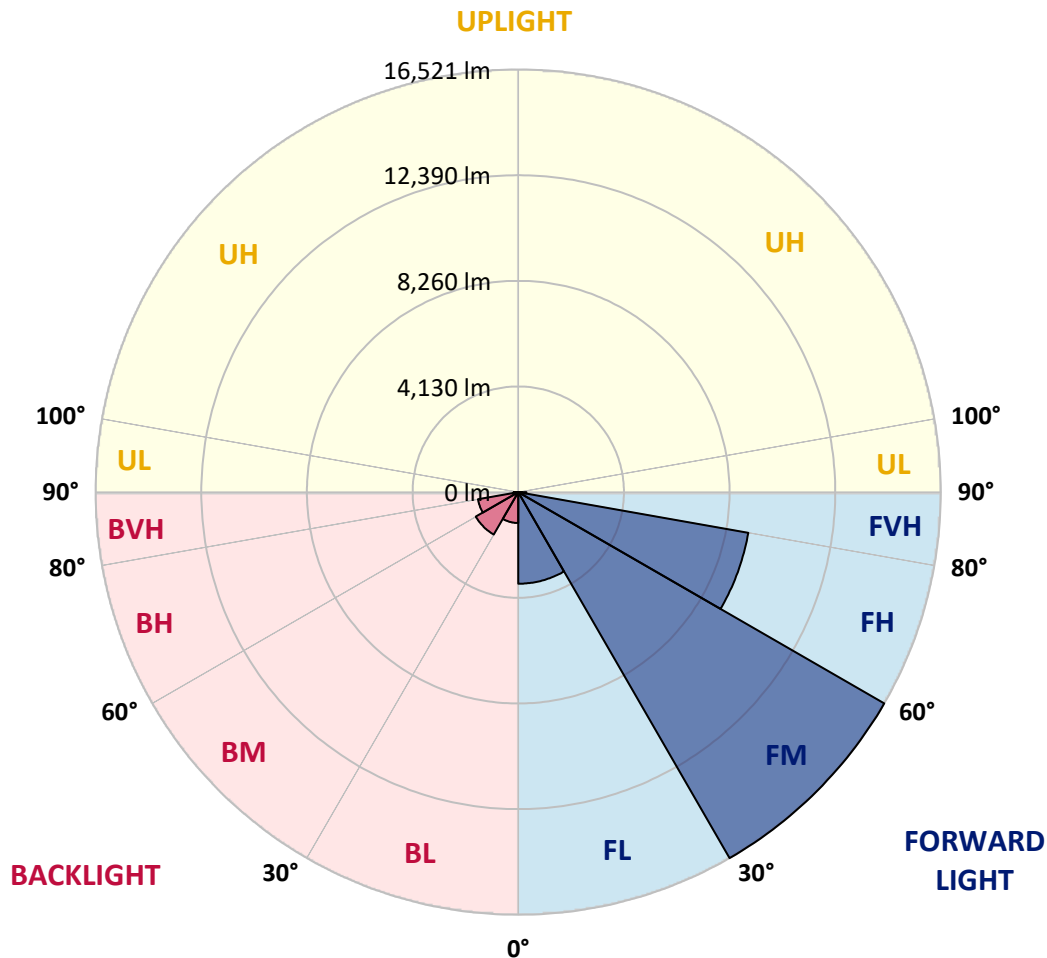
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3580.4	10.4			
FM (30°-60°)	16520.5	48.0			
FH (60°-80°)	9132.1	26.5			G4/12000
FVH (80°-90°)	315.0	0.9			G3/500
BL (0°-30°)	1206.9	3.5	B3/2500		
BM (30°-60°)	1915.1	5.6	B2/2500		
BH (60°-80°)	1599.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	179.4	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3
2.5°	4891.5	4832.6	4773.7	4648.1	4604.9	4487.1	4271.2	4031.7	3835.4	3808.0	3670.6
5°	6069.2	5982.8	5963.2	5892.5	5668.8	5441.1	5087.7	4703.0	4224.1	4259.4	3788.3
7.5°	6952.5	6901.4	6795.4	6728.7	6595.2	6292.9	5927.9	5417.5	4809.0	4691.2	4051.4
10°	7619.8	7549.2	7545.3	7486.4	7415.7	7105.6	6826.8	6139.8	5358.6	5197.7	4373.3
12.5°	7957.5	7945.7	8153.7	8153.7	8126.3	7996.7	7517.8	6889.7	5880.7	5825.8	4746.2
15°	8322.5	8224.4	8405.0	8542.4	8613.0	8679.8	8283.3	7619.8	6548.1	6442.1	5146.6
17.5°	8322.5	8314.7	8495.3	8723.0	9092.0	9178.4	8962.4	8291.1	7101.6	7023.1	5586.3
20°	8181.2	8295.1	8420.7	8726.9	9127.3	9476.7	9539.5	8978.1	7714.1	7651.2	6084.9
22.5°	8840.7	8730.8	8860.4	8978.1	9288.3	9818.2	9991.0	9582.7	8357.9	8118.4	6536.3
25°	9947.8	9873.2	9779.0	9606.3	9735.8	9967.4	10230.4	10030.2	8907.5	8640.5	6972.1
27.5°	11027.4	11031.3	10827.2	10450.3	10171.6	10218.7	10528.8	10422.8	9370.7	9252.9	7270.4
30°	12562.3	12468.1	12240.4	11730.1	11184.4	10736.9	10685.8	10787.9	9959.6	9731.9	7698.4
32.5°	13712.6	13732.2	13410.3	12676.2	11930.3	11565.2	11117.7	11160.8	10332.5	10163.7	8039.9
35°	14643.0	14619.4	14391.7	13783.2	12899.9	12460.3	11855.7	11608.4	11200.1	10933.2	8562.0
37.5°	15648.0	15455.6	15086.6	14399.6	13834.3	13225.8	12636.9	12079.5	11777.2	11455.3	9009.5
40°	16052.3	16052.3	15557.7	15243.6	14572.3	14113.0	13732.2	12699.7	12479.9	12417.1	9582.7
42.5°	15765.7	15942.4	15738.2	15381.0	15106.2	14525.2	14423.1	13343.6	13347.5	13221.9	10269.7
45°	15738.2	15494.9	15326.0	15416.3	15286.8	15255.4	15514.5	14234.7	14258.2	14242.5	11192.3
47.5°	14949.2	14839.3	15090.5	15239.7	15345.7	15832.5	16578.4	15298.6	15467.4	15349.6	12256.1
50°	14164.0	14144.4	14301.4	14843.2	15302.5	16103.3	17591.2	16939.5	17493.0	17485.2	14183.7
52.5°	12012.7	12220.8	12837.1	13983.4	15118.0	16472.4	18356.7	19035.9	20091.9	20378.5	15781.4
55°	9955.6	9845.7	10756.5	12421.0	14313.2	16617.6	19212.5	20296.0	21850.6	22058.7	17422.4
57.5°	7745.5	7949.6	8668.0	10265.8	12648.7	15899.2	19840.6	21540.5	23837.0	23998.0	19326.4
60°	5778.7	5806.2	6595.2	7882.9	10434.6	14277.9	20044.8	22816.3	26113.9	26573.3	21320.6
62.5°	3635.2	3800.1	4400.7	5668.8	7855.4	12008.8	19130.1	23589.7	28500.8	28622.5	23330.6
65°	1958.9	2064.9	2516.4	3313.3	5488.2	9084.1	16704.0	23126.5	29623.5	30345.9	24225.7
67°	1448.6	1468.2	1676.3	2116.0	3670.6	6838.6	13928.5	21450.2	30133.9	30659.9	24261.0
67.5°	1358.3	1385.8	1550.7	1900.1	3254.4	6296.9	13202.2	20853.5	29906.2	30471.5	23986.2
70°	1162.0	1169.9	1209.1	1307.3	1825.5	3788.3	8989.9	17088.7	27719.6	28261.3	22058.7
72.5°	1032.5	1040.3	1056.0	1075.6	1236.6	2190.6	5468.5	13151.2	24092.2	24955.9	19031.9
75°	906.8	934.3	942.2	926.5	1052.1	1425.0	2909.0	9665.1	19652.2	20072.3	14800.0
77.5°	769.4	781.2	796.9	812.6	938.2	1063.9	1397.6	6524.6	13488.8	13233.6	8004.6
80°	647.7	651.7	663.4	675.2	812.6	812.6	793.0	3525.3	5892.5	5633.4	2704.8
82.5°	463.2	490.7	518.2	549.6	675.2	545.7	518.2	1570.3	1864.7	1774.4	914.7
85°	180.6	219.8	341.5	376.9	427.9	294.4	345.5	679.2	777.3	769.4	341.5
87.5°	31.4	35.3	94.2	145.3	157.0	102.1	164.9	243.4	290.5	314.1	125.6
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°	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3
2.5°	3556.7	3435.0	3289.8	3144.5	3050.3	2901.1	2889.3	2799.0	2787.3	2755.9	2771.6
5°	3584.2	3438.9	3144.5	2912.9	2806.9	2720.5	2740.2	2700.9	2689.1	2669.5	2638.1
7.5°	3800.1	3513.5	3073.8	2873.6	2795.1	2755.9	2755.9	2708.8	2673.4	2697.0	2720.5
10°	3941.4	3548.9	3128.8	2928.6	2865.8	2779.4	2810.8	2751.9	2771.6	2724.5	2724.5
12.5°	4169.1	3749.1	3242.7	3011.0	2909.0	2830.5	2861.9	2795.1	2779.4	2783.3	2771.6
15°	4475.3	3882.5	3293.7	3058.1	2987.5	2889.3	2865.8	2806.9	2748.0	2728.4	2751.9
17.5°	4761.9	4047.4	3329.0	3085.6	2971.8	2861.9	2834.4	2759.8	2740.2	2681.3	2634.2
20°	5103.4	4243.7	3376.1	3109.2	2912.9	2803.0	2732.3	2657.7	2591.0	2555.6	2571.4
22.5°	5331.1	4345.8	3399.7	3062.1	2826.5	2724.5	2575.3	2524.2	2430.0	2390.8	2359.4
25°	5704.1	4471.4	3340.8	2932.5	2673.4	2508.5	2375.1	2304.4	2237.7	2186.6	2170.9
27.5°	5798.3	4565.6	3203.4	2712.7	2430.0	2257.3	2143.4	2057.1	2013.9	1935.4	1919.7
30°	6073.1	4471.4	2999.3	2445.7	2198.4	2021.8	1907.9	1845.1	1743.0	1723.4	1680.2
32.5°	6249.8	4498.9	2740.2	2186.6	1931.5	1774.4	1699.8	1637.0	1609.5	1515.3	1491.8
35°	6544.2	4404.7	2477.1	1947.2	1711.6	1589.9	1527.1	1507.5	1417.2	1374.0	1334.7
37.5°	6732.6	4349.7	2214.1	1676.3	1472.1	1421.1	1440.7	1358.3	1248.4	1165.9	1138.5
40°	7062.4	4330.1	1915.8	1452.5	1307.3	1295.5	1358.3	1201.3	1001.1	930.4	891.1
42.5°	7537.4	4196.6	1684.1	1252.3	1177.7	1228.8	1240.5	1001.1	887.2	828.3	800.8
45°	7992.8	4224.1	1456.4	1036.4	1024.6	1099.2	1071.7	848.0	781.2	738.0	761.6
47.5°	8868.2	4361.5	1232.7	863.7	922.5	993.2	832.3	757.7	694.9	663.4	667.4
50°	10222.6	4495.0	1036.4	789.1	871.5	899.0	714.5	687.0	683.1	620.3	616.3
52.5°	11035.2	4443.9	1001.1	883.3	934.3	899.0	777.3	757.7	726.3	698.8	667.4
55°	12326.8	4593.1	1075.6	1032.5	1059.9	863.7	871.5	863.7	840.1	769.4	789.1
57.5°	13355.3	4691.2	1173.8	1154.2	1138.5	899.0	910.8	914.7	899.0	867.6	895.1
60°	14768.6	4887.5	1275.9	1279.8	1283.7	977.5	997.1	1020.7	1016.8	1005.0	1012.8
62.5°	15636.2	4797.2	1389.7	1452.5	1432.9	1138.5	1134.5	1150.2	1150.2	1169.9	1181.6
65°	15506.6	4463.6	1448.6	1605.6	1503.6	1256.2	1256.2	1264.1	1268.0	1307.3	1311.2
67°	14729.3	3866.8	1417.2	1629.2	1503.6	1303.3	1303.3	1311.2	1283.7	1385.8	1354.4
67.5°	14368.2	3690.2	1389.7	1609.5	1491.8	1299.4	1299.4	1303.3	1279.8	1377.9	1346.5
70°	12495.6	2740.2	1197.3	1425.0	1381.9	1264.1	1264.1	1240.5	1220.9	1350.5	1323.0
72.5°	10666.2	1990.3	961.8	1213.1	1248.4	1217.0	1224.8	1165.9	1111.0	1201.3	1177.7
75°	8169.4	1464.3	749.8	934.3	1056.0	1138.5	1189.5	1040.3	969.7	993.2	950.0
77.5°	4557.8	954.0	592.8	690.9	804.8	1059.9	1142.4	938.2	793.0	765.5	765.5
80°	1546.7	557.5	435.8	514.3	553.5	938.2	1067.8	761.6	624.2	596.7	577.1
82.5°	584.9	341.5	298.4	353.3	353.3	742.0	871.5	584.9	471.1	608.5	620.3
85°	266.9	204.1	196.3	204.1	204.1	455.4	616.3	380.8	424.0	365.1	321.9
87.5°	106.0	98.1	90.3	86.4	70.7	78.5	212.0	102.1	192.4	51.0	47.1
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)