

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: P476974

Luminaire Tested: **IFLD-L-SA7C-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476974
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43969.3 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

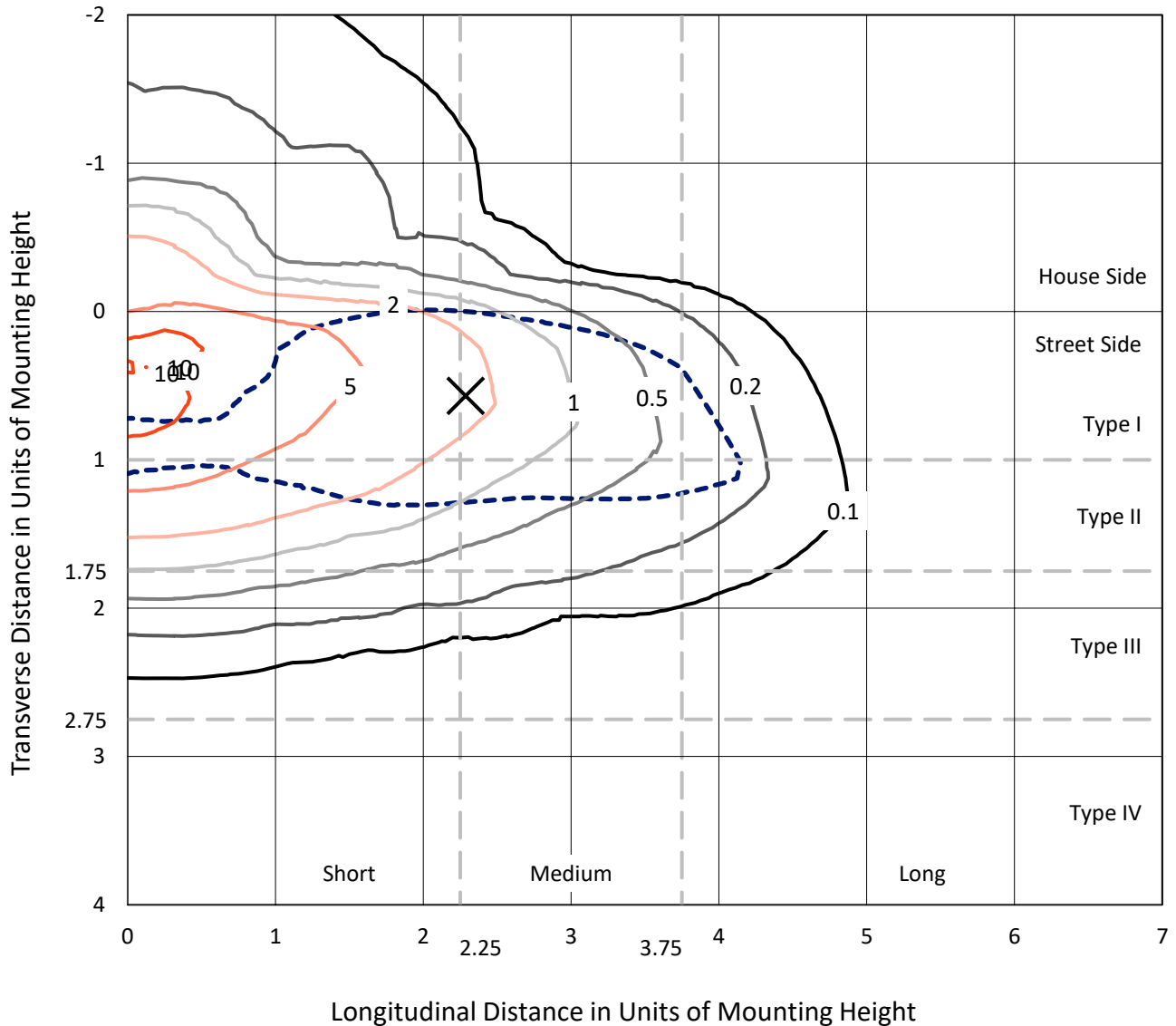
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

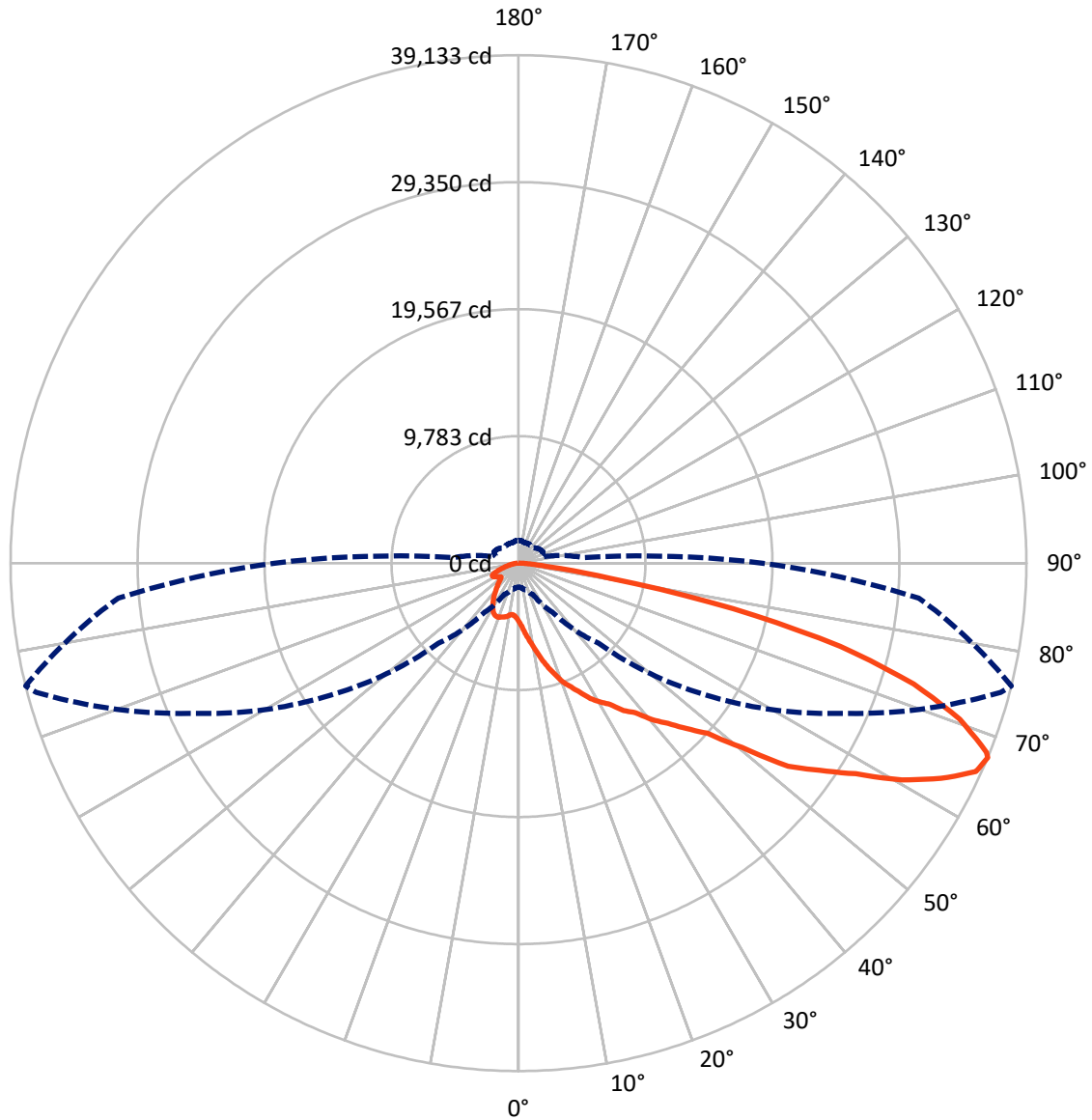
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 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	6255.2	0.0	6255.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	37714.1	0.0	37714.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	43969.3	0.0	43969.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.2	1.2
10°-20°	1954.8	4.4
20°-30°	3634.3	8.3
30°-40°	5761.1	13.1
40°-50°	7968.2	18.1
50°-60°	9801.3	22.3
60°-70°	9120.6	20.7
70°-80°	4576.7	10.4
80°-90°	631.1	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°	43969.3	100.0
0°-180°	43969.3	100.0

Coefficient of Utilization



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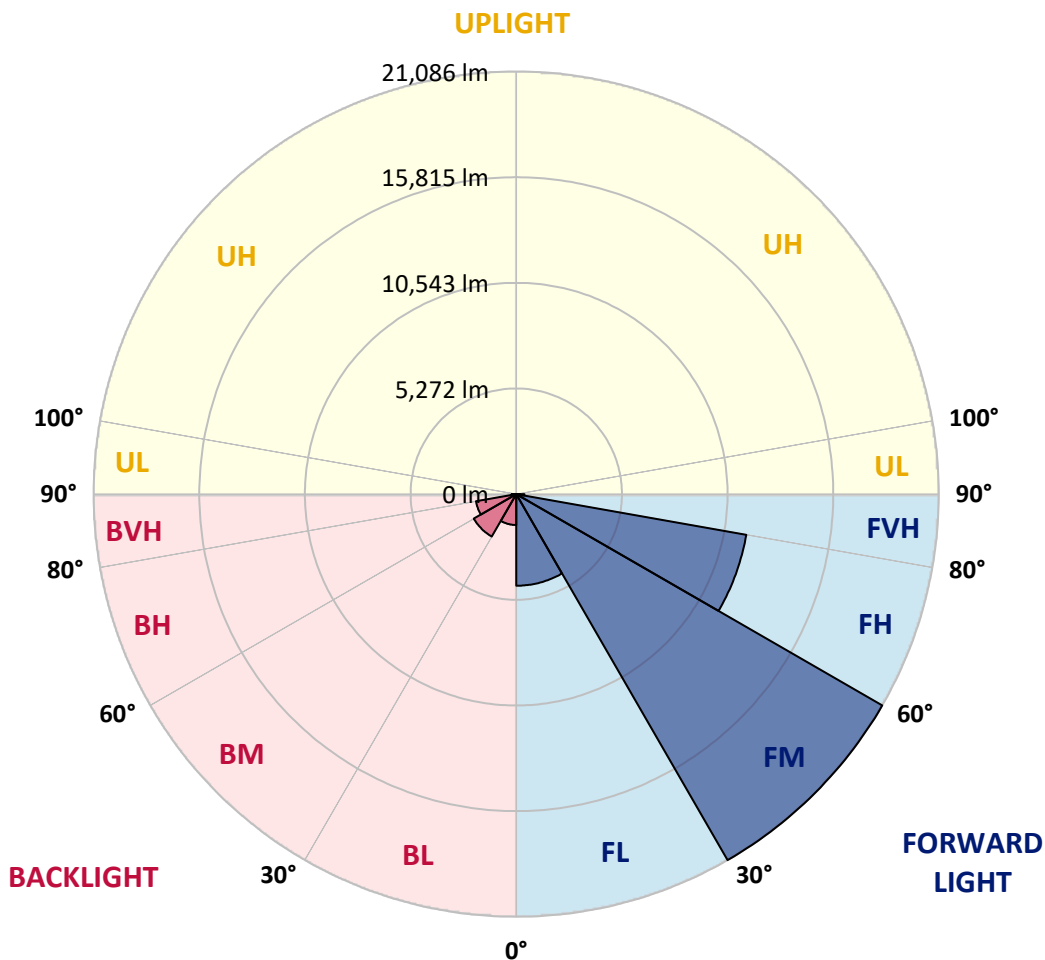
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4569.9	10.4			
FM	(30°-60°)	21086.2	48.0			
FH	(60°-80°)	11655.9	26.5			G4/12000
FVH	(80°-90°)	402.1	0.9			G3/500
BL	(0°-30°)	1540.4	3.5	B3/2500		
BM	(30°-60°)	2444.4	5.6	B2/2500		
BH	(60°-80°)	2041.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	229.0	0.5			G3/500
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°	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6
2.5°	6243.3	6168.1	6093.0	5932.6	5877.5	5727.2	5451.6	5146.0	4895.4	4860.3	4685.0
5°	7746.5	7636.3	7611.2	7521.0	7235.4	6944.8	6493.8	6002.8	5391.5	5436.6	4835.3
7.5°	8873.9	8808.8	8673.5	8588.3	8417.9	8032.1	7566.1	6914.7	6138.1	5987.8	5171.0
10°	9725.7	9635.5	9630.5	9555.3	9465.2	9069.3	8713.6	7836.7	6839.6	6634.1	5581.9
12.5°	10156.6	10141.6	10407.2	10407.2	10372.1	10206.7	9595.4	8793.7	7506.0	7435.8	6057.9
15°	10622.6	10497.4	10727.8	10903.2	10993.4	11078.6	10572.5	9725.7	8357.8	8222.5	6569.0
17.5°	10622.6	10612.6	10843.1	11133.7	11604.7	11714.9	11439.4	10582.5	9064.3	8964.1	7130.2
20°	10442.2	10587.5	10747.9	11138.7	11649.8	12095.8	12175.9	11459.4	9846.0	9765.8	7766.5
22.5°	11284.0	11143.7	11309.1	11459.4	11855.2	12531.7	12752.2	12231.0	10667.7	10362.1	8342.8
25°	12697.0	12601.8	12481.6	12261.1	12426.5	12722.1	13057.8	12802.3	11369.2	11028.5	8898.9
27.5°	14075.0	14080.0	13819.4	13338.4	12982.6	13042.8	13438.6	13303.3	11960.5	11810.1	9279.8
30°	16034.1	15913.9	15623.3	14971.9	14275.4	13704.2	13639.0	13769.3	12712.1	12421.5	9825.9
32.5°	17502.3	17527.3	17116.4	16179.5	15227.4	14761.4	14190.2	14245.3	13188.1	12972.6	10261.9
35°	18689.8	18659.7	18369.1	17592.5	16465.1	15903.9	15132.2	14816.6	14295.4	13954.7	10928.3
37.5°	19972.5	19727.0	19256.0	18379.1	17657.6	16880.9	16129.3	15417.8	15032.0	14621.1	11499.5
40°	20488.6	20488.6	19857.3	19456.4	18599.6	18013.4	17527.3	16209.5	15928.9	15848.7	12231.0
42.5°	20122.8	20348.3	20087.8	19631.8	19281.1	18539.5	18409.2	17031.3	17036.3	16875.9	13107.9
45°	20087.8	19777.1	19561.7	19676.9	19511.5	19471.5	19802.2	18168.7	18198.8	18178.7	14285.4
47.5°	19080.6	18940.3	19261.0	19451.4	19586.7	20208.0	21160.1	19526.6	19742.0	19591.7	15643.3
50°	18078.5	18053.4	18253.9	18945.3	19531.6	20553.8	22452.8	21621.0	22327.5	22317.5	18103.5
52.5°	15332.6	15598.2	16384.9	17848.0	19296.1	21024.8	23429.9	24296.7	25644.6	26010.4	20142.9
55°	12707.1	12566.8	13729.2	15853.8	18268.9	21210.2	24522.2	25905.2	27889.4	28155.0	22237.4
57.5°	9886.1	10146.6	11063.6	13102.9	16144.4	20293.2	25323.9	27493.5	30424.8	30630.2	24667.5
60°	7375.7	7410.8	8417.9	10061.4	13318.4	18223.8	25584.5	29122.0	33331.0	33917.2	27212.9
62.5°	4639.9	4850.3	5617.0	7235.4	10026.4	15327.6	24417.0	30109.1	36377.5	36532.8	29778.4
65°	2500.3	2635.6	3211.8	4229.0	7004.9	11594.7	21320.4	29517.9	37810.5	38732.5	30920.8
67°	1848.9	1874.0	2139.6	2700.8	4685.0	8728.6	17777.9	27378.3	38461.9	39133.3	30965.9
67.5°	1733.7	1768.8	1979.2	2425.2	4153.8	8037.1	16850.9	26616.7	38171.3	38892.8	30615.2
70°	1483.2	1493.2	1543.3	1668.6	2330.0	4835.3	11474.4	21811.4	35380.3	36071.8	28155.0
72.5°	1317.8	1327.8	1347.9	1372.9	1578.4	2796.0	6979.9	16785.7	30750.5	31852.8	24291.7
75°	1157.5	1192.5	1202.6	1182.5	1342.9	1818.9	3712.9	12336.3	25083.4	25619.6	18890.2
77.5°	982.1	997.1	1017.2	1037.2	1197.6	1357.9	1783.8	8327.7	17216.7	16891.0	10216.8
80°	826.8	831.8	846.8	861.8	1037.2	1037.2	1012.2	4499.6	7521.0	7190.3	3452.4
82.5°	591.3	626.3	661.4	701.5	861.8	696.5	661.4	2004.3	2380.1	2264.8	1167.5
85°	230.5	280.6	435.9	481.0	546.2	375.8	440.9	866.8	992.1	982.1	435.9
87.5°	40.1	45.1	120.3	185.4	200.4	130.3	210.4	310.7	370.8	400.9	160.3
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°	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6	4499.6
2.5°	4539.7	4384.3	4198.9	4013.5	3893.3	3702.9	3687.9	3572.6	3557.6	3517.5	3537.5
5°	4574.7	4389.3	4013.5	3717.9	3582.6	3472.4	3497.4	3447.3	3432.3	3407.3	3367.2
7.5°	4850.3	4484.5	3923.4	3667.8	3567.6	3517.5	3517.5	3457.4	3412.3	3442.3	3472.4
10°	5030.7	4529.6	3993.5	3738.0	3657.8	3547.6	3587.6	3512.5	3537.5	3477.4	3477.4
12.5°	5321.3	4785.2	4138.8	3843.2	3712.9	3612.7	3652.8	3567.6	3547.6	3552.6	3537.5
15°	5712.2	4955.6	4204.0	3903.3	3813.1	3687.9	3657.8	3582.6	3507.5	3482.4	3512.5
17.5°	6077.9	5166.0	4249.0	3938.4	3793.1	3652.8	3617.7	3522.5	3497.4	3422.3	3362.2
20°	6513.9	5416.5	4309.2	3968.5	3717.9	3577.6	3487.4	3392.2	3307.0	3261.9	3282.0
22.5°	6804.5	5546.8	4339.2	3908.3	3607.7	3477.4	3287.0	3221.9	3101.6	3051.5	3011.4
25°	7280.5	5707.2	4264.1	3743.0	3412.3	3201.8	3031.5	2941.3	2856.1	2790.9	2770.9
27.5°	7400.8	5827.4	4088.7	3462.4	3101.6	2881.1	2735.8	2625.6	2570.5	2470.3	2450.2
30°	7751.5	5707.2	3828.2	3121.6	2806.0	2580.5	2435.2	2355.0	2224.7	2199.7	2144.6
32.5°	7977.0	5742.2	3497.4	2790.9	2465.2	2264.8	2169.6	2089.4	2054.4	1934.1	1904.1
35°	8352.8	5622.0	3161.7	2485.3	2184.7	2029.3	1949.2	1924.1	1808.9	1753.7	1703.6
37.5°	8593.3	5551.8	2826.0	2139.6	1879.0	1813.9	1838.9	1733.7	1593.4	1488.2	1453.1
40°	9014.2	5526.8	2445.2	1853.9	1668.6	1653.5	1733.7	1533.3	1277.7	1187.5	1137.4
42.5°	9620.5	5356.4	2149.6	1598.4	1503.2	1568.3	1583.4	1277.7	1132.4	1057.3	1022.2
45°	10201.7	5391.5	1859.0	1322.8	1307.8	1403.0	1367.9	1082.3	997.1	942.0	972.1
47.5°	11319.1	5566.9	1573.4	1102.3	1177.5	1267.7	1062.3	967.1	886.9	846.8	851.8
50°	13047.8	5737.2	1322.8	1007.1	1112.4	1147.4	911.9	876.9	871.9	791.7	786.7
52.5°	14085.0	5672.1	1277.7	1127.4	1192.5	1147.4	992.1	967.1	927.0	891.9	851.8
55°	15733.5	5862.5	1372.9	1317.8	1352.9	1102.3	1112.4	1102.3	1072.3	982.1	1007.1
57.5°	17046.3	5987.8	1498.2	1473.1	1453.1	1147.4	1162.5	1167.5	1147.4	1107.4	1142.4
60°	18850.1	6238.3	1628.5	1633.5	1638.5	1247.7	1272.7	1302.8	1297.8	1282.7	1292.8
62.5°	19957.5	6123.0	1773.8	1853.9	1828.9	1453.1	1448.1	1468.1	1468.1	1493.2	1508.2
65°	19792.1	5697.1	1848.9	2049.4	1919.1	1603.4	1603.4	1613.4	1618.4	1668.6	1673.6
67°	18800.0	4935.5	1808.9	2079.4	1919.1	1663.5	1663.5	1673.6	1638.5	1768.8	1728.7
67.5°	18339.1	4710.0	1773.8	2054.4	1904.1	1658.5	1658.5	1663.5	1633.5	1758.7	1718.7
70°	15949.0	3497.4	1528.3	1818.9	1763.8	1613.4	1613.4	1583.4	1558.3	1723.7	1688.6
72.5°	13614.0	2540.4	1227.6	1548.3	1593.4	1553.3	1563.3	1488.2	1418.0	1533.3	1503.2
75°	10427.2	1869.0	957.0	1192.5	1347.9	1453.1	1518.2	1327.8	1237.6	1267.7	1212.6
77.5°	5817.4	1217.6	756.6	881.9	1027.2	1352.9	1458.1	1197.6	1012.2	977.1	977.1
80°	1974.2	711.5	556.2	656.4	706.5	1197.6	1362.9	972.1	796.7	761.6	736.6
82.5°	746.6	435.9	380.8	451.0	451.0	947.0	1112.4	746.6	601.3	776.7	791.7
85°	340.7	260.6	250.5	260.6	260.6	581.2	786.7	486.0	541.2	466.0	410.9
87.5°	135.3	125.3	115.2	110.2	90.2	100.2	270.6	130.3	245.5	65.1	60.1
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)