

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: P476926

Luminaire Tested: **IFLD-S-SA6D-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476926
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

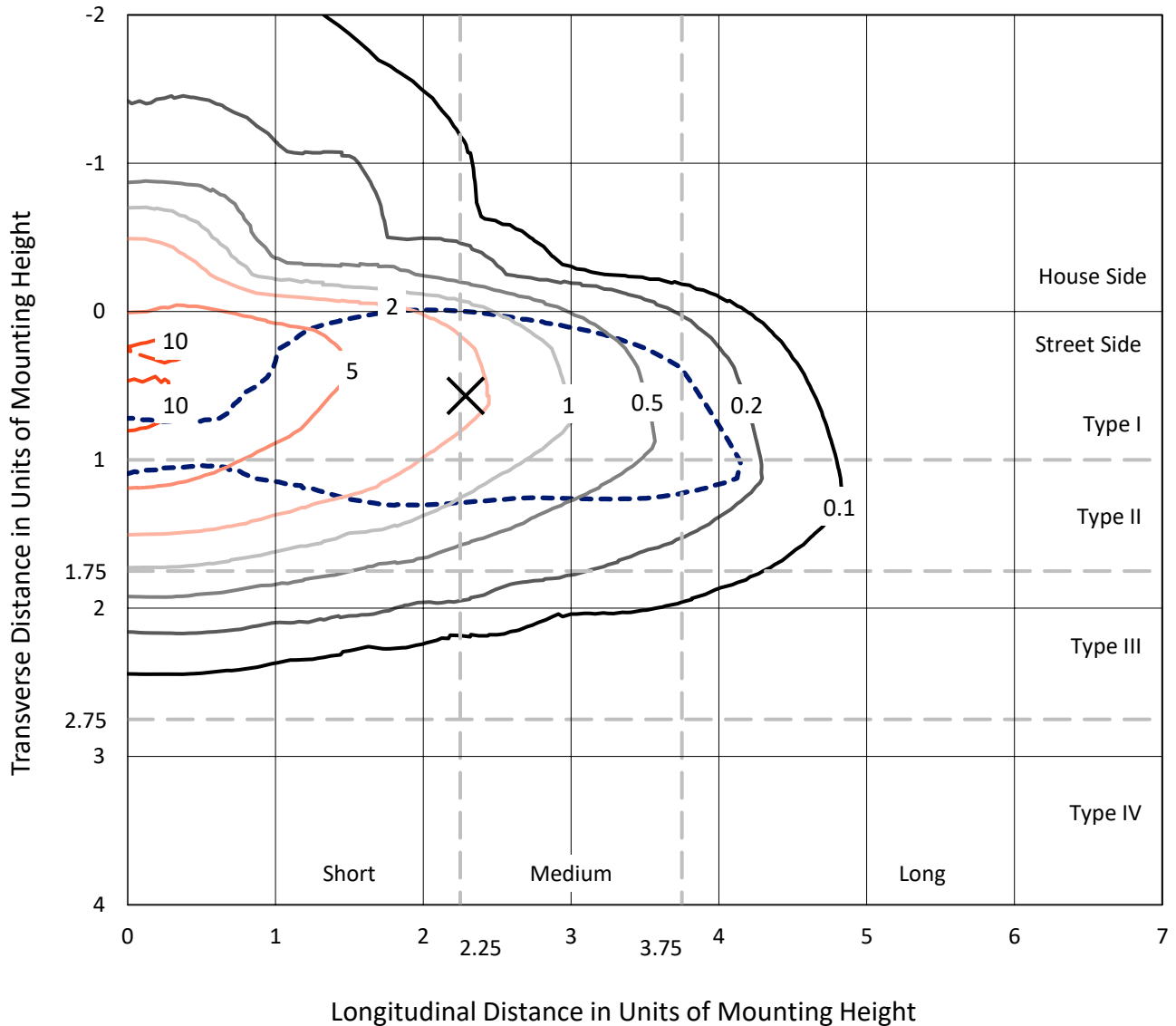
Lumens per Lamp: N/A
Luminaire Lumens: 41868.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 368.2
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

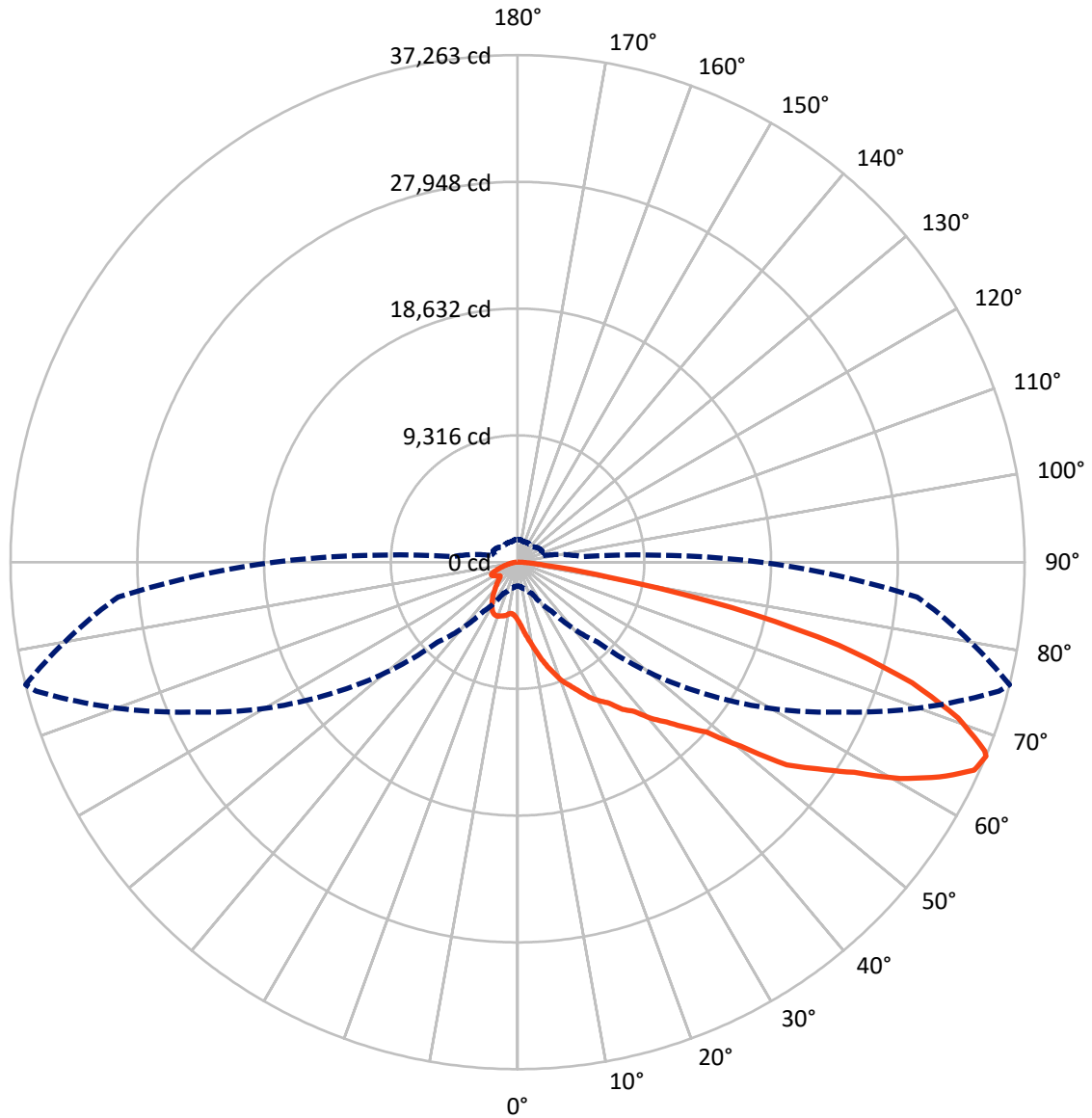
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 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	5956.3	0.0	5956.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	35912.0	0.0	35912.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	41868.3	0.0	41868.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.3	1.2
10°-20°	1861.4	4.4
20°-30°	3460.6	8.3
30°-40°	5485.9	13.1
40°-50°	7587.4	18.1
50°-60°	9333.0	22.3
60°-70°	8684.8	20.7
70°-80°	4358.0	10.4
80°-90°	600.9	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°	41868.3	100.0
0°-180°	41868.3	100.0

Coefficient of Utilization



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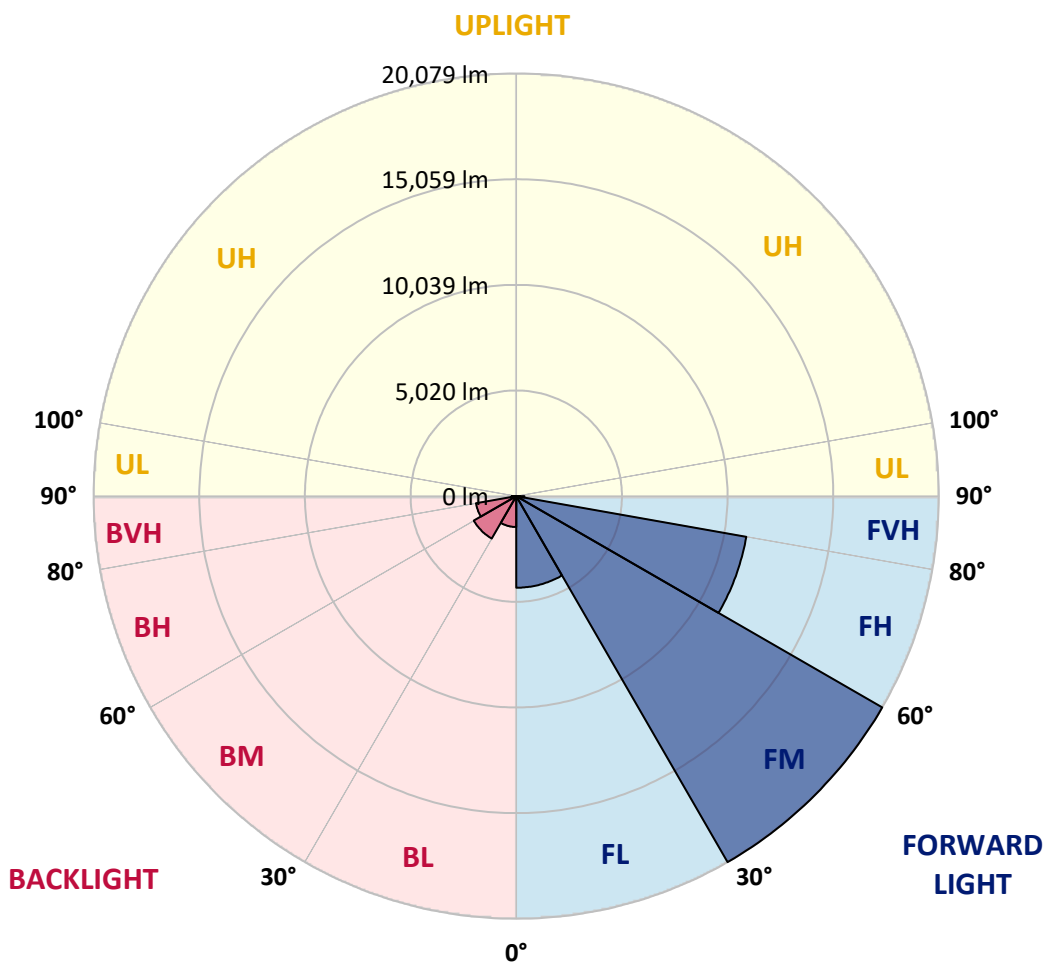
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4351.5	10.4			
FM (30°-60°)	20078.7	48.0			
FH (60°-80°)	11098.9	26.5			G4/12000
FVH (80°-90°)	382.8	0.9			G3/500
BL (0°-30°)	1466.8	3.5	B3/2500		
BM (30°-60°)	2327.6	5.6	B2/2500		
BH (60°-80°)	1943.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	218.1	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°	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6
2.5°	5945.0	5873.4	5801.8	5649.2	5596.7	5453.5	5191.1	4900.1	4661.5	4628.1	4461.1
5°	7376.3	7271.4	7247.5	7161.6	6889.7	6612.9	6183.5	5716.0	5133.9	5176.8	4604.3
7.5°	8449.9	8387.9	8259.0	8177.9	8015.7	7648.3	7204.6	6584.3	5844.8	5701.6	4923.9
10°	9261.0	9175.1	9170.3	9098.8	9012.9	8636.0	8297.2	7462.2	6512.8	6317.1	5315.2
12.5°	9671.3	9657.0	9909.9	9909.9	9876.5	9719.0	9136.9	8373.5	7147.3	7080.5	5768.4
15°	10115.0	9995.8	10215.2	10382.2	10468.1	10549.2	10067.3	9261.0	7958.4	7829.6	6255.1
17.5°	10115.0	10105.5	10325.0	10601.7	11050.2	11155.2	10892.8	10076.9	8631.2	8535.8	6789.5
20°	9943.3	10081.6	10234.3	10606.5	11093.2	11517.8	11594.1	10911.8	9375.5	9299.2	7395.4
22.5°	10744.8	10611.3	10768.7	10911.8	11288.8	11932.9	12142.8	11646.6	10158.0	9866.9	7944.1
25°	12090.3	11999.7	11885.2	11675.2	11832.7	12114.2	12433.9	12190.5	10826.0	10501.5	8473.7
27.5°	13402.4	13407.2	13159.1	12701.1	12362.3	12419.6	12796.5	12667.7	11389.0	11245.8	8836.4
30°	15268.0	15153.5	14876.8	14256.5	13593.3	13049.4	12987.3	13111.4	12104.7	11827.9	9356.4
32.5°	16666.0	16689.8	16298.6	15406.4	14499.8	14056.1	13512.2	13564.7	12557.9	12352.8	9771.5
35°	17796.8	17768.1	17491.4	16751.9	15678.3	15143.9	14409.2	14108.6	13612.4	13287.9	10406.1
37.5°	19018.2	18784.4	18335.9	17500.9	16813.9	16074.3	15358.6	14681.1	14313.7	13922.5	10950.0
40°	19509.6	19509.6	18908.5	18526.8	17710.9	17152.6	16689.8	15435.0	15167.8	15091.5	11646.6
42.5°	19161.3	19376.0	19127.9	18693.7	18359.8	17653.6	17529.6	16217.5	16222.2	16069.6	12481.6
45°	19127.9	18832.1	18627.0	18736.7	18579.2	18541.1	18856.0	17300.5	17329.2	17310.1	13602.8
47.5°	18168.9	18035.3	18340.7	18522.0	18650.8	19242.4	20149.0	18593.6	18798.7	18655.6	14895.8
50°	17214.7	17190.8	17381.7	18040.1	18598.3	19571.7	21380.0	20587.9	21260.7	21251.1	17238.5
52.5°	14600.0	14852.9	15602.0	16995.2	18374.1	20020.2	22310.4	23135.8	24419.2	24767.5	19180.4
55°	12099.9	11966.3	13073.2	15096.2	17396.0	20196.7	23350.5	24667.4	26556.8	26809.6	21174.8
57.5°	9413.7	9661.8	10534.9	12476.8	15373.0	19323.6	24113.9	26179.8	28971.0	29166.6	23488.9
60°	7023.3	7056.7	8015.7	9580.7	12682.0	17353.0	24362.0	27730.5	31738.3	32296.6	25912.6
62.5°	4418.2	4618.6	5348.6	6889.7	9547.3	14595.2	23250.3	28670.4	34639.3	34787.2	28355.5
65°	2380.9	2509.7	3058.4	4026.9	6670.2	11040.7	20301.7	28107.4	36003.8	36881.7	29443.4
67°	1760.6	1784.4	2037.3	2571.7	4461.1	8311.5	16928.4	26070.1	36624.1	37263.4	29486.3
67.5°	1650.9	1684.3	1884.6	2309.3	3955.4	7653.1	16045.7	25344.9	36347.4	37034.4	29152.3
70°	1412.3	1421.8	1469.5	1588.8	2218.6	4604.3	10926.2	20769.2	33689.8	34348.2	26809.6
72.5°	1254.8	1264.4	1283.5	1307.3	1502.9	2662.4	6646.3	15983.7	29281.1	30330.8	23131.0
75°	1102.2	1135.6	1145.1	1126.0	1278.7	1732.0	3535.5	11746.8	23884.9	24395.4	17987.6
77.5°	935.2	949.5	968.6	987.6	1140.3	1293.0	1698.6	7929.8	16394.0	16083.9	9728.6
80°	787.3	792.0	806.3	820.7	987.6	987.6	963.8	4284.6	7161.6	6846.7	3287.4
82.5°	563.0	596.4	629.8	668.0	820.7	663.2	629.8	1908.5	2266.3	2156.6	1111.7
85°	219.5	267.2	415.1	458.0	520.1	357.8	419.9	825.4	944.7	935.2	415.1
87.5°	38.2	42.9	114.5	176.5	190.8	124.1	200.4	295.8	353.1	381.7	152.7
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°	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6	4284.6
2.5°	4322.8	4174.8	3998.3	3821.8	3707.3	3526.0	3511.6	3401.9	3387.6	3349.4	3368.5
5°	4356.1	4179.6	3821.8	3540.3	3411.4	3306.5	3330.3	3282.6	3268.3	3244.4	3206.3
7.5°	4618.6	4270.3	3735.9	3492.6	3397.1	3349.4	3349.4	3292.2	3249.2	3277.8	3306.5
10°	4790.3	4313.2	3802.7	3559.4	3483.0	3378.0	3416.2	3344.6	3368.5	3311.2	3311.2
12.5°	5067.1	4556.5	3941.1	3659.5	3535.5	3440.1	3478.2	3397.1	3378.0	3382.8	3368.5
15°	5439.2	4718.8	4003.1	3716.8	3630.9	3511.6	3483.0	3411.4	3339.9	3316.0	3344.6
17.5°	5787.5	4919.2	4046.0	3750.2	3611.8	3478.2	3444.8	3354.2	3330.3	3258.8	3201.5
20°	6202.6	5157.7	4103.3	3778.8	3540.3	3406.7	3320.8	3230.1	3149.0	3106.1	3125.2
22.5°	6479.4	5281.8	4131.9	3721.6	3435.3	3311.2	3129.9	3067.9	2953.4	2905.7	2867.5
25°	6932.6	5434.5	4060.3	3564.1	3249.2	3048.8	2886.6	2800.7	2719.6	2657.6	2638.5
27.5°	7047.1	5549.0	3893.3	3296.9	2953.4	2743.5	2605.1	2500.1	2447.7	2352.2	2333.1
30°	7381.1	5434.5	3645.2	2972.5	2671.9	2457.2	2318.8	2242.5	2118.4	2094.6	2042.1
32.5°	7595.8	5467.8	3330.3	2657.6	2347.5	2156.6	2066.0	1989.6	1956.2	1841.7	1813.1
35°	7953.7	5353.3	3010.7	2366.5	2080.3	1932.4	1856.0	1832.2	1722.4	1669.9	1622.2
37.5°	8182.7	5286.5	2691.0	2037.3	1789.2	1727.2	1751.0	1650.9	1517.3	1417.1	1383.7
40°	8583.5	5262.7	2328.4	1765.4	1588.8	1574.5	1650.9	1460.0	1216.7	1130.8	1083.1
42.5°	9160.8	5100.5	2046.9	1522.0	1431.4	1493.4	1507.7	1216.7	1078.3	1006.7	973.3
45°	9714.3	5133.9	1770.1	1259.6	1245.3	1335.9	1302.6	1030.6	949.5	897.0	925.6
47.5°	10778.2	5300.9	1498.2	1049.7	1121.2	1207.1	1011.5	920.9	844.5	806.3	811.1
50°	12424.3	5463.1	1259.6	959.0	1059.2	1092.6	868.4	835.0	830.2	753.9	749.1
52.5°	13412.0	5401.1	1216.7	1073.5	1135.6	1092.6	944.7	920.9	882.7	849.3	811.1
55°	14981.7	5582.4	1307.3	1254.8	1288.2	1049.7	1059.2	1049.7	1021.0	935.2	959.0
57.5°	16231.8	5701.6	1426.6	1402.7	1383.7	1092.6	1106.9	1111.7	1092.6	1054.4	1087.8
60°	17949.4	5940.2	1550.7	1555.4	1560.2	1188.0	1211.9	1240.5	1235.8	1221.4	1231.0
62.5°	19003.9	5830.5	1689.0	1765.4	1741.5	1383.7	1378.9	1398.0	1398.0	1421.8	1436.1
65°	18846.4	5424.9	1760.6	1951.4	1827.4	1526.8	1526.8	1536.3	1541.1	1588.8	1593.6
67°	17901.7	4699.7	1722.4	1980.1	1827.4	1584.1	1584.1	1593.6	1560.2	1684.3	1646.1
67.5°	17462.8	4485.0	1689.0	1956.2	1813.1	1579.3	1579.3	1584.1	1555.4	1674.7	1636.5
70°	15186.9	3330.3	1455.2	1732.0	1679.5	1536.3	1536.3	1507.7	1483.9	1641.3	1607.9
72.5°	12963.5	2419.0	1169.0	1474.3	1517.3	1479.1	1488.6	1417.1	1350.3	1460.0	1431.4
75°	9929.0	1779.7	911.3	1135.6	1283.5	1383.7	1445.7	1264.4	1178.5	1207.1	1154.6
77.5°	5539.4	1159.4	720.5	839.7	978.1	1288.2	1388.4	1140.3	963.8	930.4	930.4
80°	1879.9	677.5	529.6	625.0	672.7	1140.3	1297.8	925.6	758.6	725.2	701.4
82.5°	710.9	415.1	362.6	429.4	429.4	901.8	1059.2	710.9	572.5	739.5	753.9
85°	324.4	248.1	238.6	248.1	248.1	553.5	749.1	462.8	515.3	443.7	391.2
87.5°	128.8	119.3	109.7	105.0	85.9	95.4	257.6	124.1	233.8	62.0	57.3
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)