

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: P476964

Luminaire Tested: **IFLD-S-SA6C-735-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476964  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-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**

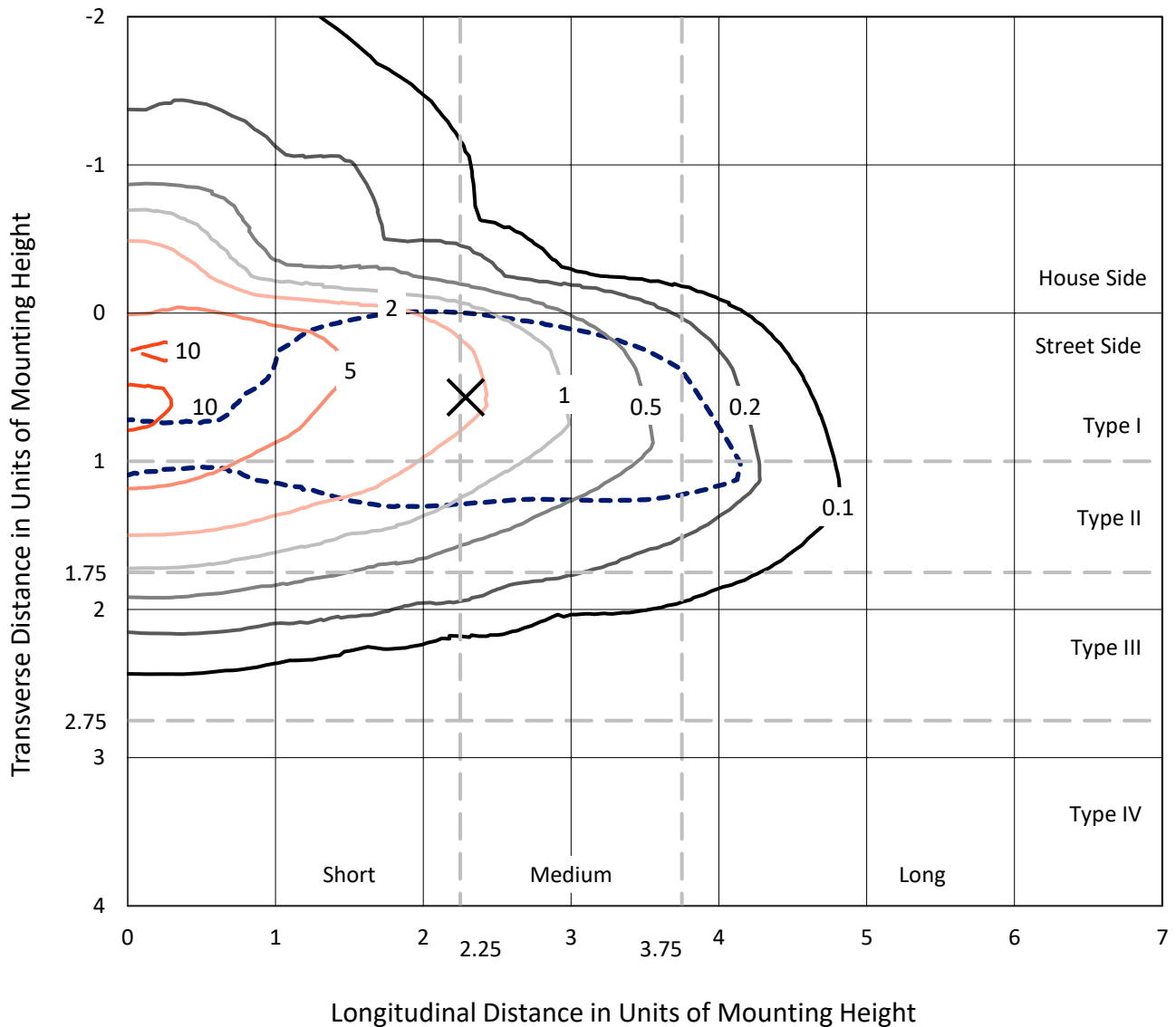
Lumens per Lamp: N/A  
Luminaire Lumens: 41212.9 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5  
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

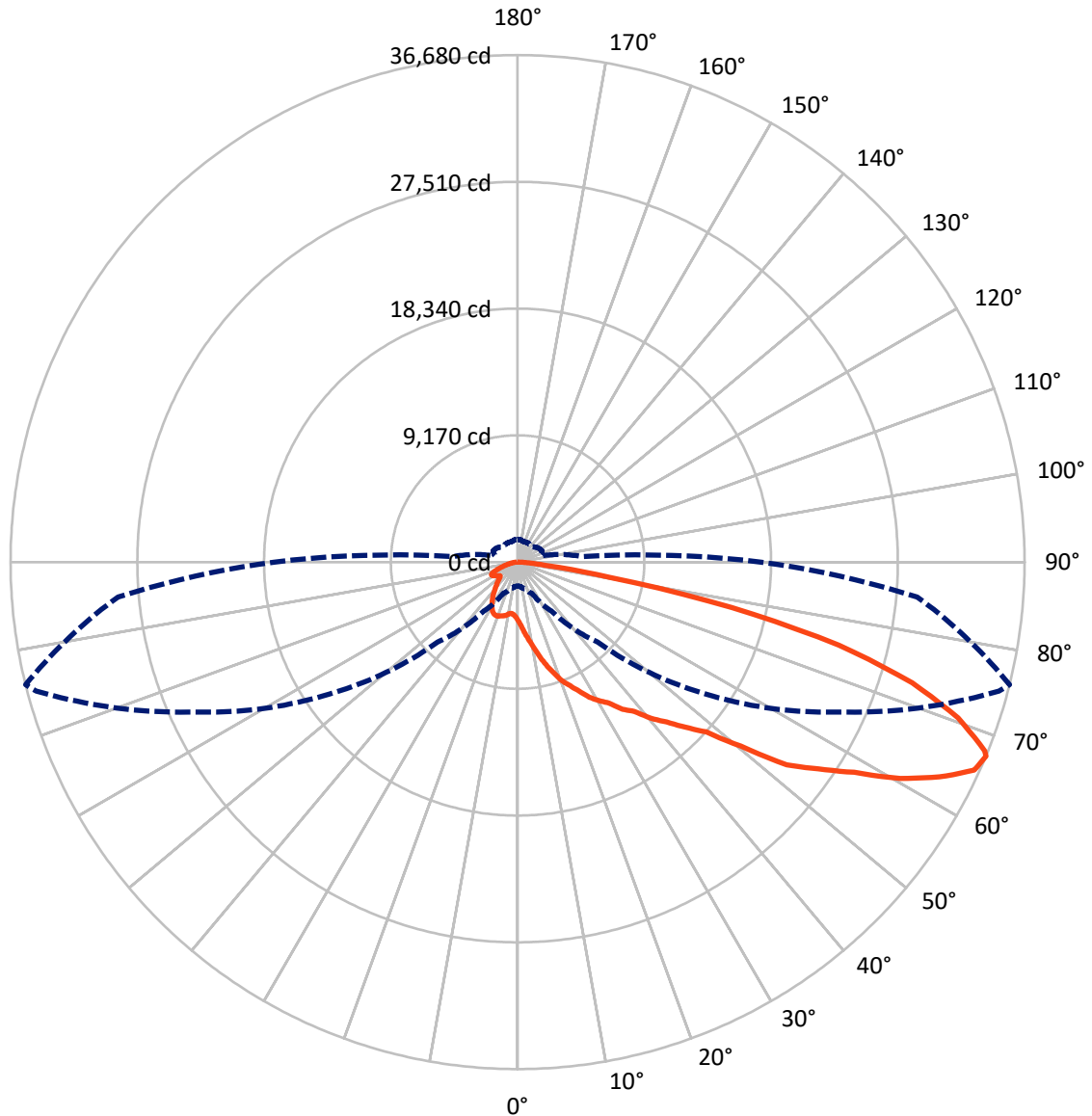
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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
<b>House Side</b>	Lumens	5863.1	0.0	5863.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	35349.8	0.0	35349.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	41212.9	0.0	41212.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.5	1.2
10°-20°	1832.3	4.4
20°-30°	3406.4	8.3
30°-40°	5400.0	13.1
40°-50°	7468.6	18.1
50°-60°	9186.9	22.3
60°-70°	8548.9	20.7
70°-80°	4289.8	10.4
80°-90°	591.5	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°	41212.9	100.0
0°-180°	41212.9	100.0

**Coefficient of Utilization**



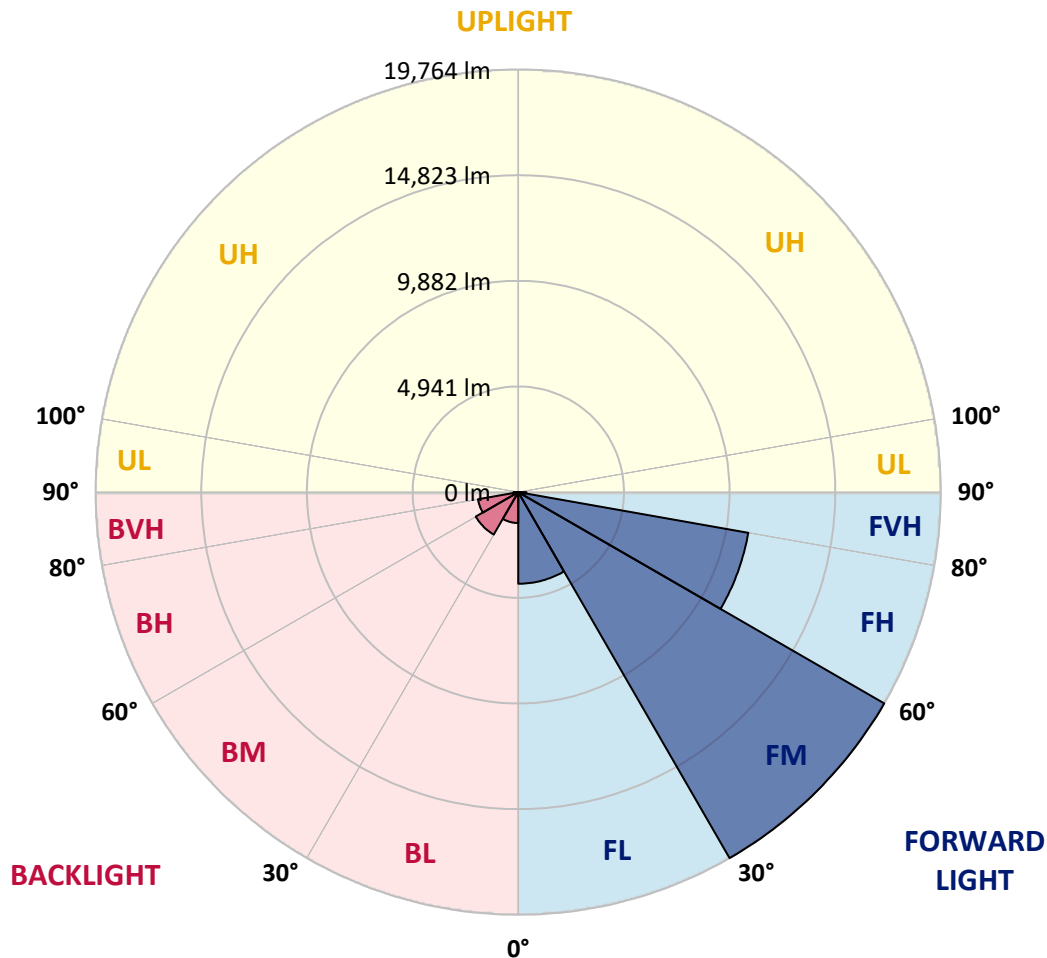
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4283.4	10.4			
FM (30°-60°)	19764.4	48.0			
FH (60°-80°)	10925.2	26.5			G4/12000
FVH (80°-90°)	376.9	0.9			G3/500
BL (0°-30°)	1443.8	3.5	B3/2500		
BM (30°-60°)	2291.2	5.6	B2/2500		
BH (60°-80°)	1913.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	214.6	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°	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5
2.5°	5851.9	5781.5	5711.0	5560.7	5509.1	5368.2	5109.9	4823.4	4588.5	4555.7	4391.3
5°	7260.9	7157.6	7134.1	7049.5	6781.8	6509.4	6086.7	5626.5	5053.5	5095.8	4532.2
7.5°	8317.6	8256.5	8129.7	8049.9	7890.2	7528.6	7091.8	6481.3	5753.3	5612.4	4846.8
10°	9116.0	9031.5	9026.8	8956.3	8871.8	8500.8	8167.3	7345.4	6410.8	6218.2	5232.0
12.5°	9519.9	9505.8	9754.8	9754.8	9721.9	9566.9	8993.9	8242.5	7035.4	6969.7	5678.1
15°	9956.7	9839.3	10055.3	10219.7	10304.2	10384.1	9909.7	9116.0	7833.9	7707.1	6157.2
17.5°	9956.7	9947.3	10163.4	10435.8	10877.2	10980.6	10722.2	9919.1	8496.1	8402.1	6683.2
20°	9787.6	9923.8	10074.1	10440.4	10919.5	11337.5	11412.6	10741.0	9228.7	9153.6	7279.7
22.5°	10576.6	10445.1	10600.1	10741.0	11112.1	11746.1	11952.7	11464.3	9999.0	9712.5	7819.8
25°	11901.1	11811.8	11699.1	11492.5	11647.5	11924.6	12239.2	11999.7	10656.5	10337.1	8341.1
27.5°	13192.6	13197.3	12953.1	12502.2	12168.8	12225.1	12596.2	12469.4	11210.7	11069.8	8698.0
30°	15029.0	14916.3	14643.9	14033.3	13380.5	12845.1	12784.0	12906.1	11915.2	11642.8	9210.0
32.5°	16405.1	16428.6	16043.4	15165.2	14272.8	13836.1	13300.7	13352.3	12361.3	12159.4	9618.6
35°	17518.2	17490.0	17217.6	16489.6	15432.9	14906.9	14183.6	13887.7	13399.3	13079.9	10243.2
37.5°	18720.5	18490.3	18048.9	17227.0	16550.7	15822.7	15118.2	14451.3	14089.7	13704.6	10778.6
40°	19204.2	19204.2	18612.5	18236.7	17433.6	16884.1	16428.6	15193.4	14930.4	14855.2	11464.3
42.5°	18861.4	19072.7	18828.5	18401.1	18072.4	17377.3	17255.2	15963.6	15968.3	15818.0	12286.2
45°	18828.5	18537.3	18335.4	18443.4	18288.4	18250.8	18560.8	17029.7	17057.9	17039.1	13389.9
47.5°	17884.5	17753.0	18053.6	18232.0	18358.8	18941.2	19833.6	18302.5	18504.4	18363.5	14662.7
50°	16945.2	16921.7	17109.6	17757.7	18307.2	19265.3	21045.3	20265.6	20927.9	20918.5	16968.7
52.5°	14371.5	14620.4	15357.7	16729.1	18086.4	19706.8	21961.1	22773.6	24037.0	24379.8	18880.2
55°	11910.5	11779.0	12868.6	14859.9	17123.7	19880.5	22985.0	24281.2	26141.0	26390.0	20843.3
57.5°	9266.3	9510.5	10370.0	12281.5	15132.3	19021.1	23736.4	25770.0	28517.5	28710.1	23121.2
60°	6913.3	6946.2	7890.2	9430.7	12483.5	17081.4	23980.6	27296.4	31241.5	31791.0	25507.0
62.5°	4349.0	4546.3	5264.8	6781.8	9397.8	14366.8	22886.3	28221.6	34097.0	34242.6	27911.6
65°	2343.6	2470.4	3010.5	3963.9	6565.8	10867.8	19983.9	27667.4	35440.2	36304.4	28982.5
67°	1733.0	1756.5	2005.4	2531.4	4391.3	8181.4	16663.4	25662.0	36050.8	36680.1	29024.7
67.5°	1625.0	1657.9	1855.1	2273.1	3893.4	7533.3	15794.5	24948.1	35778.4	36454.7	28696.0
70°	1390.2	1399.6	1446.5	1564.0	2183.9	4532.2	10755.1	20444.1	33162.4	33810.5	26390.0
72.5°	1235.2	1244.6	1263.4	1286.9	1479.4	2620.7	6542.3	15733.5	28822.8	29856.0	22768.9
75°	1084.9	1117.8	1127.2	1108.4	1258.7	1704.9	3480.1	11562.9	23511.0	24013.5	17706.0
77.5°	920.5	934.6	953.4	972.2	1122.5	1272.8	1672.0	7805.7	16137.4	15832.1	9576.3
80°	774.9	779.6	793.7	807.8	972.2	972.2	948.7	4217.5	7049.5	6739.6	3235.9
82.5°	554.2	587.1	619.9	657.5	807.8	652.8	619.9	1878.6	2230.9	2122.8	1094.3
85°	216.0	263.0	408.6	450.9	511.9	352.2	413.3	812.5	929.9	920.5	408.6
87.5°	37.6	42.3	112.7	173.8	187.9	122.1	197.3	291.2	347.5	375.7	150.3
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°	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5	4217.5
2.5°	4255.1	4109.5	3935.7	3761.9	3649.2	3470.8	3456.7	3348.6	3334.6	3297.0	3315.8
5°	4288.0	4114.2	3761.9	3484.8	3358.0	3254.7	3278.2	3231.2	3217.1	3193.7	3156.1
7.5°	4546.3	4203.4	3677.4	3437.9	3343.9	3297.0	3297.0	3240.6	3198.4	3226.5	3254.7
10°	4715.3	4245.7	3743.2	3503.6	3428.5	3325.2	3362.7	3292.3	3315.8	3259.4	3259.4
12.5°	4987.7	4485.2	3879.4	3602.3	3480.1	3386.2	3423.8	3343.9	3325.2	3329.9	3315.8
15°	5354.1	4644.9	3940.4	3658.6	3574.1	3456.7	3428.5	3358.0	3287.6	3264.1	3292.3
17.5°	5696.9	4842.2	3982.7	3691.5	3555.3	3423.8	3390.9	3301.7	3278.2	3207.7	3151.4
20°	6105.5	5077.0	4039.0	3719.7	3484.8	3353.3	3268.8	3179.6	3099.7	3057.5	3076.2
22.5°	6377.9	5199.1	4067.2	3663.3	3381.5	3259.4	3080.9	3019.9	2907.2	2860.2	2822.6
25°	6824.1	5349.4	3996.8	3508.3	3198.4	3001.1	2841.4	2756.9	2677.0	2616.0	2597.2
27.5°	6936.8	5462.1	3832.4	3245.3	2907.2	2700.5	2564.3	2461.0	2409.3	2315.4	2296.6
30°	7265.6	5349.4	3588.2	2926.0	2630.1	2418.7	2282.5	2207.4	2085.3	2061.8	2010.1
32.5°	7476.9	5382.3	3278.2	2616.0	2310.7	2122.8	2033.6	1958.5	1925.6	1812.9	1784.7
35°	7829.2	5269.5	2963.5	2329.5	2047.7	1902.1	1827.0	1803.5	1695.5	1643.8	1596.8
37.5°	8054.6	5203.8	2648.9	2005.4	1761.2	1700.2	1723.6	1625.0	1493.5	1394.9	1362.0
40°	8449.1	5180.3	2291.9	1737.7	1564.0	1549.9	1625.0	1437.1	1197.6	1113.1	1066.1
42.5°	9017.4	5020.6	2014.8	1498.2	1409.0	1470.0	1484.1	1197.6	1061.4	991.0	958.1
45°	9562.2	5053.5	1742.4	1239.9	1225.8	1315.0	1282.2	1014.5	934.6	883.0	911.1
47.5°	10609.5	5217.9	1474.7	1033.2	1103.7	1188.2	995.7	906.4	831.3	793.7	798.4
50°	12229.8	5377.6	1239.9	944.0	1042.6	1075.5	854.8	821.9	817.2	742.1	737.4
52.5°	13202.0	5316.5	1197.6	1056.7	1117.8	1075.5	929.9	906.4	868.9	836.0	798.4
55°	14747.2	5495.0	1286.9	1235.2	1268.1	1033.2	1042.6	1033.2	1005.1	920.5	944.0
57.5°	15977.7	5612.4	1404.3	1380.8	1362.0	1075.5	1089.6	1094.3	1075.5	1037.9	1070.8
60°	17668.5	5847.2	1526.4	1531.1	1535.8	1169.4	1192.9	1221.1	1216.4	1202.3	1211.7
62.5°	18706.4	5739.2	1662.6	1737.7	1714.2	1362.0	1357.3	1376.1	1376.1	1399.6	1413.7
65°	18551.4	5340.0	1733.0	1920.9	1798.8	1502.9	1502.9	1512.3	1517.0	1564.0	1568.7
67°	17621.5	4626.1	1695.5	1949.1	1798.8	1559.3	1559.3	1568.7	1535.8	1657.9	1620.3
67.5°	17189.4	4414.8	1662.6	1925.6	1784.7	1554.6	1554.6	1559.3	1531.1	1648.5	1610.9
70°	14949.1	3278.2	1432.5	1704.9	1653.2	1512.3	1512.3	1484.1	1460.6	1615.6	1582.7
72.5°	12760.5	2381.2	1150.7	1451.2	1493.5	1455.9	1465.3	1394.9	1329.1	1437.1	1409.0
75°	9773.5	1751.8	897.0	1117.8	1263.4	1362.0	1423.1	1244.6	1160.0	1188.2	1136.6
77.5°	5452.7	1141.3	709.2	826.6	962.8	1268.1	1366.7	1122.5	948.7	915.8	915.8
80°	1850.4	666.9	521.3	615.2	662.2	1122.5	1277.5	911.1	746.8	713.9	690.4
82.5°	699.8	408.6	356.9	422.7	422.7	887.6	1042.6	699.8	563.6	728.0	742.1
85°	319.4	244.2	234.8	244.2	244.2	544.8	737.4	455.6	507.2	436.8	385.1
87.5°	126.8	117.4	108.0	103.3	84.5	93.9	253.6	122.1	230.1	61.1	56.4
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)