

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: P476935

Luminaire Tested: **IFLD-L-SA7C-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476935
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

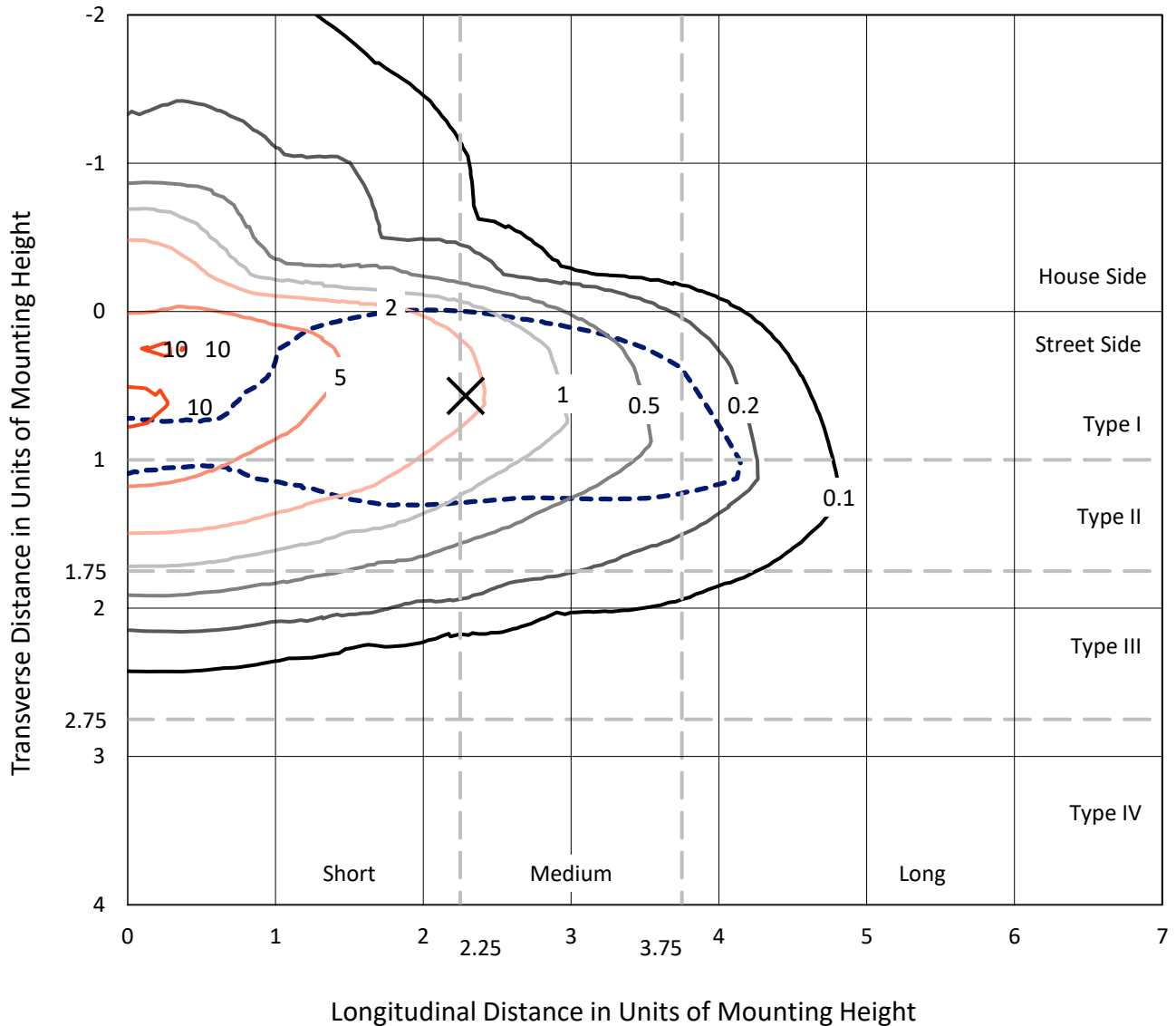
Lumens per Lamp: N/A
Luminaire Lumens: 40594.5 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

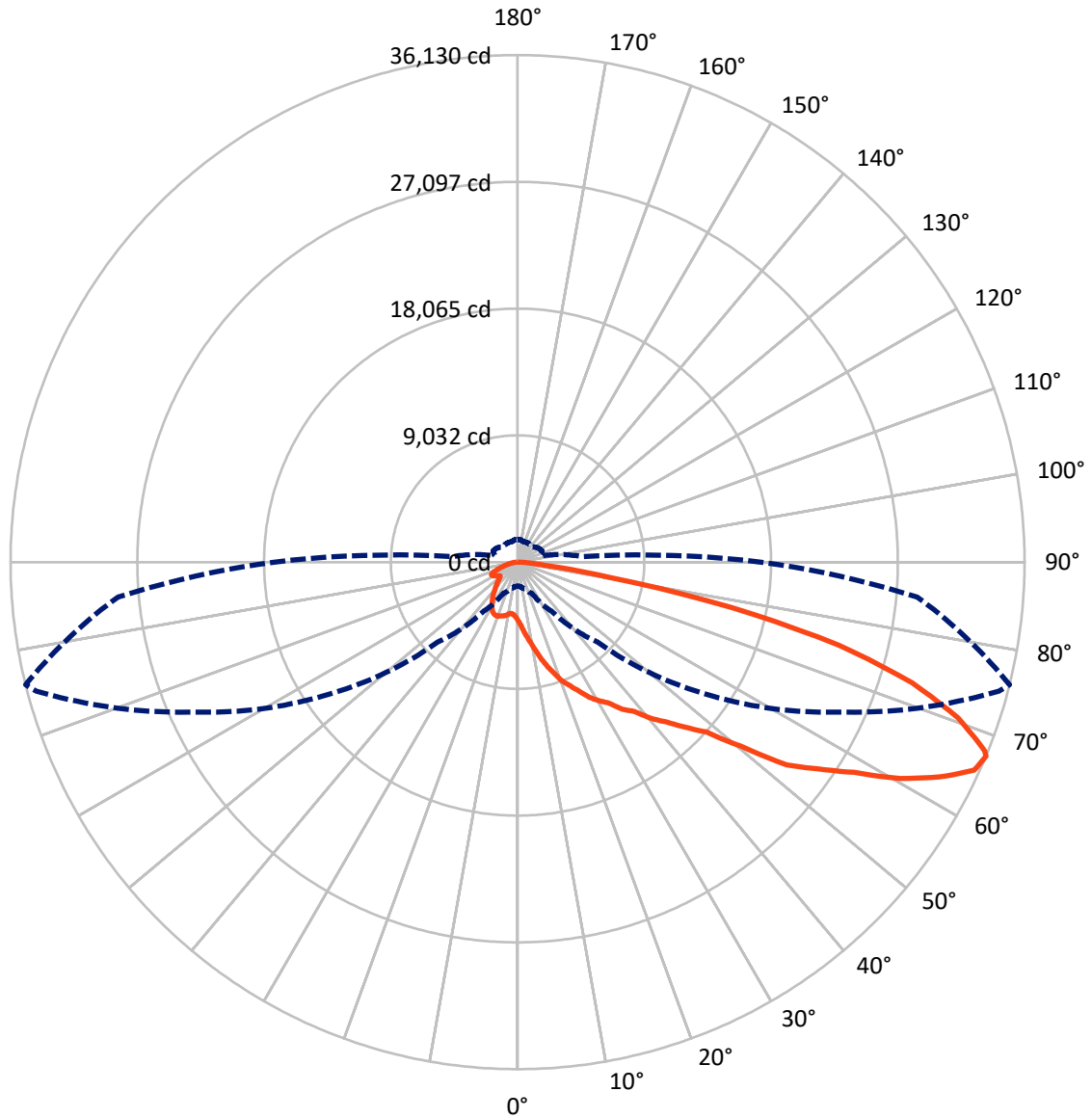
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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	5775.1	0.0	5775.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	34819.5	0.0	34819.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	40594.5	0.0	40594.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.2	1.2
10°-20°	1804.8	4.4
20°-30°	3355.3	8.3
30°-40°	5319.0	13.1
40°-50°	7356.6	18.1
50°-60°	9049.1	22.3
60°-70°	8420.6	20.7
70°-80°	4225.4	10.4
80°-90°	582.6	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°	40594.5	100.0
0°-180°	40594.5	100.0

Coefficient of Utilization



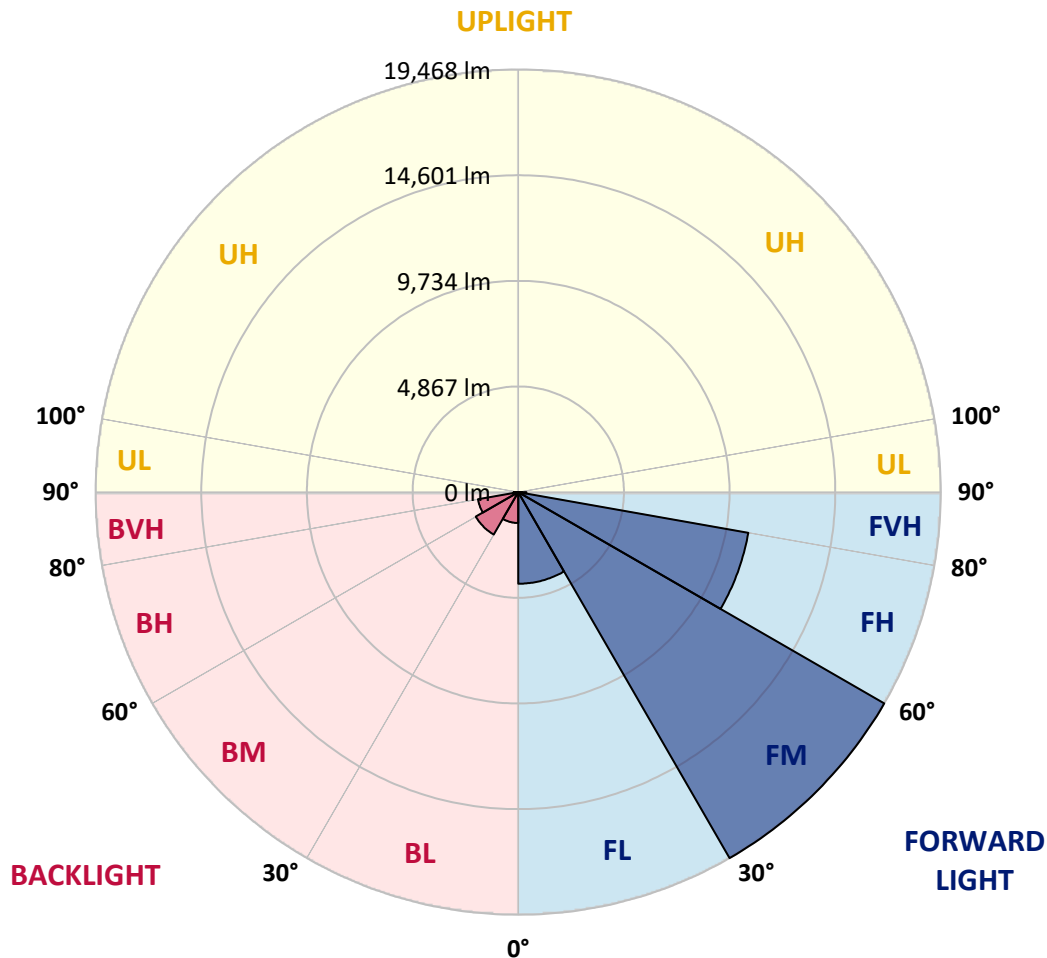
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4219.1	10.4			
FM (30°-60°)	19467.8	48.0			
FH (60°-80°)	10761.3	26.5			G4/12000
FVH (80°-90°)	371.2	0.9			G3/500
BL (0°-30°)	1422.2	3.5	B3/2500		
BM (30°-60°)	2256.8	5.6	B2/2500		
BH (60°-80°)	1884.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	211.4	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°	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2
2.5°	5764.1	5694.7	5625.3	5477.3	5426.4	5287.6	5033.2	4751.0	4519.7	4487.3	4325.4
5°	7151.9	7050.2	7027.0	6943.8	6680.1	6411.8	5995.4	5542.1	4977.7	5019.3	4464.2
7.5°	8192.8	8132.7	8007.8	7929.1	7771.8	7415.6	6985.4	6384.0	5667.0	5528.2	4774.1
10°	8979.2	8896.0	8891.4	8822.0	8738.7	8373.2	8044.8	7235.2	6314.6	6124.9	5153.5
12.5°	9377.1	9363.2	9608.4	9608.4	9576.0	9423.4	8859.0	8118.8	6929.9	6865.1	5592.9
15°	9807.3	9691.7	9904.5	10066.4	10149.6	10228.3	9761.1	8979.2	7716.3	7591.4	6064.8
17.5°	9807.3	9798.1	10010.9	10279.2	10714.0	10815.8	10561.4	9770.3	8368.6	8276.1	6582.9
20°	9640.8	9774.9	9923.0	10283.8	10755.7	11167.4	11241.4	10579.9	9090.3	9016.3	7170.4
22.5°	10418.0	10288.4	10441.1	10579.9	10945.3	11569.9	11773.4	11292.3	9849.0	9566.8	7702.4
25°	11722.5	11634.6	11523.6	11320.1	11472.7	11745.7	12055.6	11819.7	10496.6	10182.0	8215.9
27.5°	12994.7	12999.3	12758.8	12314.7	11986.2	12041.7	12407.2	12282.3	11042.5	10903.7	8567.5
30°	14803.5	14692.5	14424.2	13822.8	13179.7	12652.4	12592.2	12712.5	11736.4	11468.1	9071.8
32.5°	16158.9	16182.1	15802.7	14937.7	14058.7	13628.5	13101.1	13152.0	12175.9	11977.0	9474.2
35°	17255.3	17227.6	16959.3	16242.2	15201.3	14683.2	13970.8	13679.4	13198.2	12883.7	10089.5
37.5°	18439.6	18212.9	17778.1	16968.5	16302.4	15585.3	14891.4	14234.5	13878.3	13498.9	10616.9
40°	18916.1	18916.1	18333.2	17963.1	17172.1	16630.8	16182.1	14965.4	14706.4	14632.3	11292.3
42.5°	18578.4	18786.6	18546.0	18125.0	17801.2	17116.5	16996.3	15724.1	15728.7	15580.7	12101.9
45°	18546.0	18259.2	18060.3	18166.7	18014.0	17977.0	18282.3	16774.2	16802.0	16783.5	13189.0
47.5°	17616.2	17486.6	17782.7	17958.5	18083.4	18657.0	19536.0	18027.9	18226.8	18088.0	14442.7
50°	16690.9	16667.8	16852.9	17491.3	18032.5	18976.2	20729.5	19961.6	20613.9	20604.6	16714.1
52.5°	14155.8	14401.0	15127.3	16478.1	17815.1	19411.1	21631.6	22431.9	23676.3	24014.1	18596.9
55°	11731.8	11602.2	12675.5	14637.0	16866.7	19582.3	22640.1	23916.9	25748.8	25994.0	20530.6
57.5°	9127.3	9367.8	10214.4	12097.2	14905.3	18735.7	23380.3	25383.4	28089.6	28279.3	22774.3
60°	6809.6	6842.0	7771.8	9289.2	12296.2	16825.1	23620.8	26886.9	30772.8	31314.0	25124.3
62.5°	4283.8	4478.1	5185.9	6680.1	9256.8	14151.2	22543.0	27798.2	33585.4	33728.8	27492.9
65°	2308.4	2433.3	2965.3	3904.4	6467.3	10704.8	19684.0	27252.3	34908.5	35759.7	28547.6
67°	1707.0	1730.2	1975.3	2493.5	4325.4	8058.7	16413.4	25277.0	35509.9	36129.8	28589.3
67.5°	1600.6	1633.0	1827.3	2239.0	3835.0	7420.3	15557.6	24573.8	35241.6	35907.7	28265.4
70°	1369.3	1378.6	1424.8	1540.5	2151.1	4464.2	10593.8	20137.4	32664.8	33303.2	25994.0
72.5°	1216.7	1225.9	1244.4	1267.5	1457.2	2581.4	6444.1	15497.4	28390.3	29408.1	22427.3
75°	1068.6	1101.0	1110.3	1091.8	1239.8	1679.3	3427.9	11389.4	23158.2	23653.2	17440.4
77.5°	906.7	920.6	939.1	957.6	1105.6	1253.7	1646.9	7688.6	15895.3	15594.6	9432.6
80°	763.3	767.9	781.8	795.7	957.6	957.6	934.5	4154.2	6943.8	6638.4	3187.4
82.5°	545.9	578.3	610.6	647.7	795.7	643.0	610.6	1850.4	2197.4	2091.0	1077.9
85°	212.8	259.1	402.5	444.1	504.2	347.0	407.1	800.3	916.0	906.7	402.5
87.5°	37.0	41.6	111.0	171.2	185.0	120.3	194.3	286.8	342.3	370.1	148.0
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°	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2	4154.2
2.5°	4191.2	4047.8	3876.7	3705.5	3594.5	3418.7	3404.8	3298.4	3284.5	3247.5	3266.0
5°	4223.6	4052.5	3705.5	3432.6	3307.7	3205.9	3229.0	3182.8	3168.9	3145.7	3108.7
7.5°	4478.1	4140.4	3622.2	3386.3	3293.8	3247.5	3247.5	3192.0	3150.4	3178.1	3205.9
10°	4644.6	4182.0	3687.0	3451.1	3377.0	3275.3	3312.3	3242.9	3266.0	3210.5	3210.5
12.5°	4912.9	4417.9	3821.2	3548.2	3427.9	3335.4	3372.4	3293.8	3275.3	3279.9	3266.0
15°	5273.7	4575.2	3881.3	3603.7	3520.5	3404.8	3377.0	3307.7	3238.3	3215.1	3242.9
17.5°	5611.5	4769.5	3922.9	3636.1	3502.0	3372.4	3340.0	3252.1	3229.0	3159.6	3104.1
20°	6013.9	5000.8	3978.4	3663.9	3432.6	3303.0	3219.8	3131.9	3053.2	3011.6	3030.1
22.5°	6282.2	5121.1	4006.2	3608.4	3330.8	3210.5	3034.7	2974.6	2863.6	2817.3	2780.3
25°	6721.7	5269.1	3936.8	3455.7	3150.4	2956.1	2798.8	2715.5	2636.9	2576.7	2558.2
27.5°	6832.7	5380.1	3774.9	3196.6	2863.6	2660.0	2525.8	2424.1	2373.2	2280.7	2262.2
30°	7156.6	5269.1	3534.3	2882.1	2590.6	2382.4	2248.3	2174.3	2054.0	2030.9	1980.0
32.5°	7364.7	5301.5	3229.0	2576.7	2276.0	2091.0	2003.1	1929.1	1896.7	1785.7	1757.9
35°	7711.7	5190.5	2919.1	2294.5	2017.0	1873.6	1799.6	1776.4	1670.0	1619.1	1572.9
37.5°	7933.8	5125.7	2609.1	1975.3	1734.8	1674.6	1697.8	1600.6	1471.1	1373.9	1341.6
40°	8322.3	5102.6	2257.5	1711.7	1540.5	1526.6	1600.6	1415.6	1179.7	1096.4	1050.1
42.5°	8882.1	4945.3	1984.6	1475.7	1387.8	1448.0	1461.8	1179.7	1045.5	976.1	943.7
45°	9418.7	4977.7	1716.3	1221.3	1207.4	1295.3	1262.9	999.2	920.6	869.7	897.5
47.5°	10450.3	5139.6	1452.6	1017.7	1087.1	1170.4	980.7	892.8	818.8	781.8	786.4
50°	12046.3	5296.9	1221.3	929.8	1027.0	1059.4	841.9	809.6	804.9	730.9	726.3
52.5°	13003.9	5236.7	1179.7	1040.9	1101.0	1059.4	916.0	892.8	855.8	823.4	786.4
55°	14525.9	5412.5	1267.5	1216.7	1249.0	1017.7	1027.0	1017.7	990.0	906.7	929.8
57.5°	15738.0	5528.2	1383.2	1360.1	1341.6	1059.4	1073.3	1077.9	1059.4	1022.4	1054.7
60°	17403.4	5759.5	1503.5	1508.1	1512.7	1151.9	1175.0	1202.8	1198.2	1184.3	1193.5
62.5°	18425.7	5653.1	1637.6	1711.7	1688.5	1341.6	1336.9	1355.4	1355.4	1378.6	1392.5
65°	18273.1	5259.9	1707.0	1892.1	1771.8	1480.3	1480.3	1489.6	1494.2	1540.5	1545.1
67°	17357.1	4556.7	1670.0	1919.8	1771.8	1535.9	1535.9	1545.1	1512.7	1633.0	1596.0
67.5°	16931.5	4348.5	1637.6	1896.7	1757.9	1531.2	1531.2	1535.9	1508.1	1623.8	1586.8
70°	14724.9	3229.0	1411.0	1679.3	1628.4	1489.6	1489.6	1461.8	1438.7	1591.4	1559.0
72.5°	12569.1	2345.4	1133.4	1429.5	1471.1	1434.1	1443.3	1373.9	1309.2	1415.6	1387.8
75°	9626.9	1725.5	883.6	1101.0	1244.4	1341.6	1401.7	1225.9	1142.6	1170.4	1119.5
77.5°	5370.9	1124.1	698.5	814.2	948.3	1249.0	1346.2	1105.6	934.5	902.1	902.1
80°	1822.7	656.9	513.5	606.0	652.3	1105.6	1258.3	897.5	735.5	703.2	680.0
82.5°	689.3	402.5	351.6	416.3	416.3	874.3	1027.0	689.3	555.1	717.0	730.9
85°	314.6	240.6	231.3	240.6	240.6	536.6	726.3	448.7	499.6	430.2	379.3
87.5°	124.9	115.7	106.4	101.8	83.3	92.5	249.8	120.3	226.7	60.1	55.5
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)