

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: P477132

Luminaire Tested: **IFLD-L-SA7E-827-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477132  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-827-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

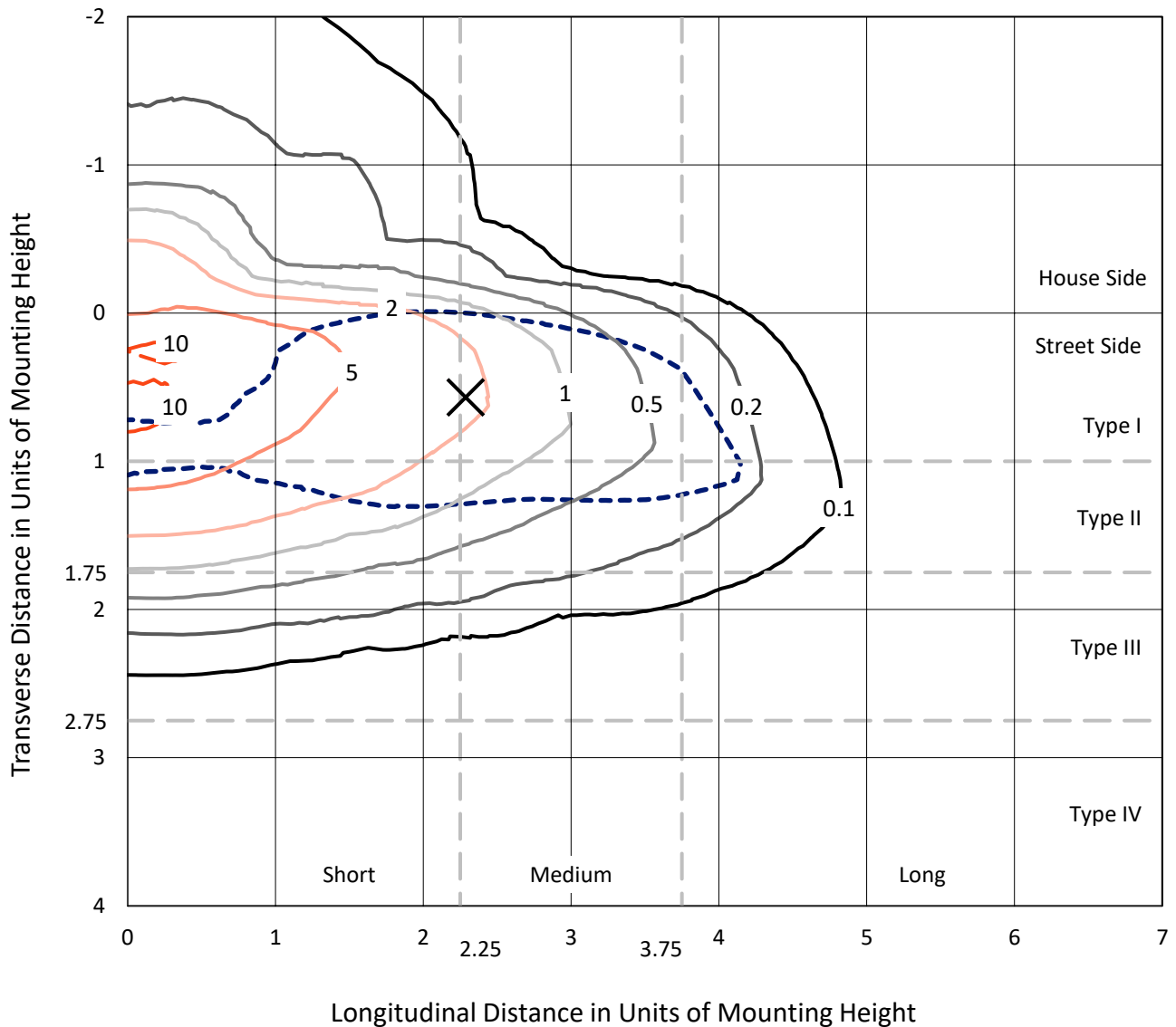
Lumens per Lamp: N/A  
Luminaire Lumens: 41730.7 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 532.7  
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

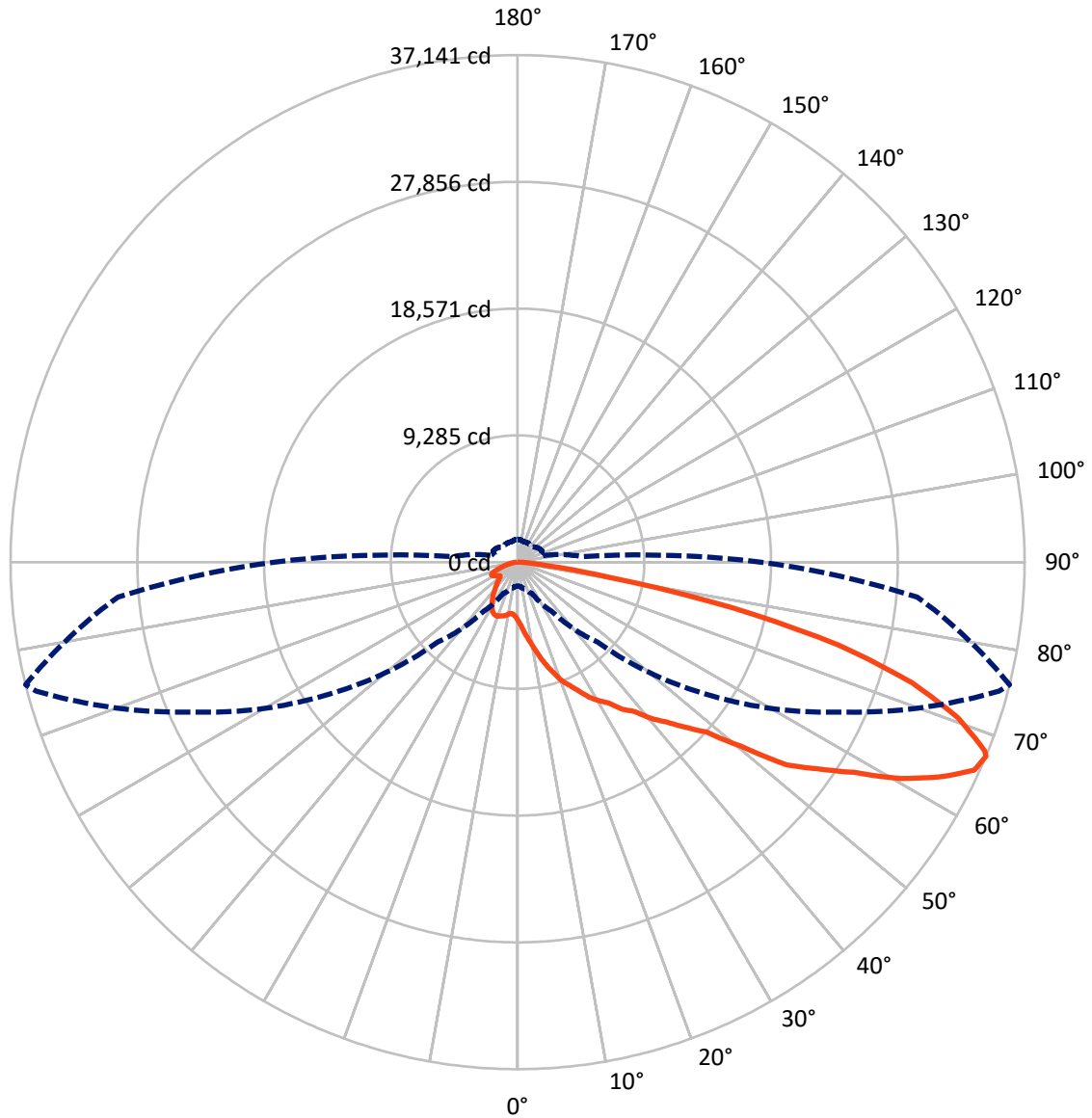
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	5936.7	0.0	5936.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	35794.0	0.0	35794.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	41730.7	0.0	41730.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.7	1.2
10°-20°	1855.3	4.4
20°-30°	3449.2	8.3
30°-40°	5467.8	13.1
40°-50°	7562.5	18.1
50°-60°	9302.3	22.3
60°-70°	8656.3	20.7
70°-80°	4343.7	10.4
80°-90°	598.9	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°	41730.7	100.0
0°-180°	41730.7	100.0

**Coefficient of Utilization**



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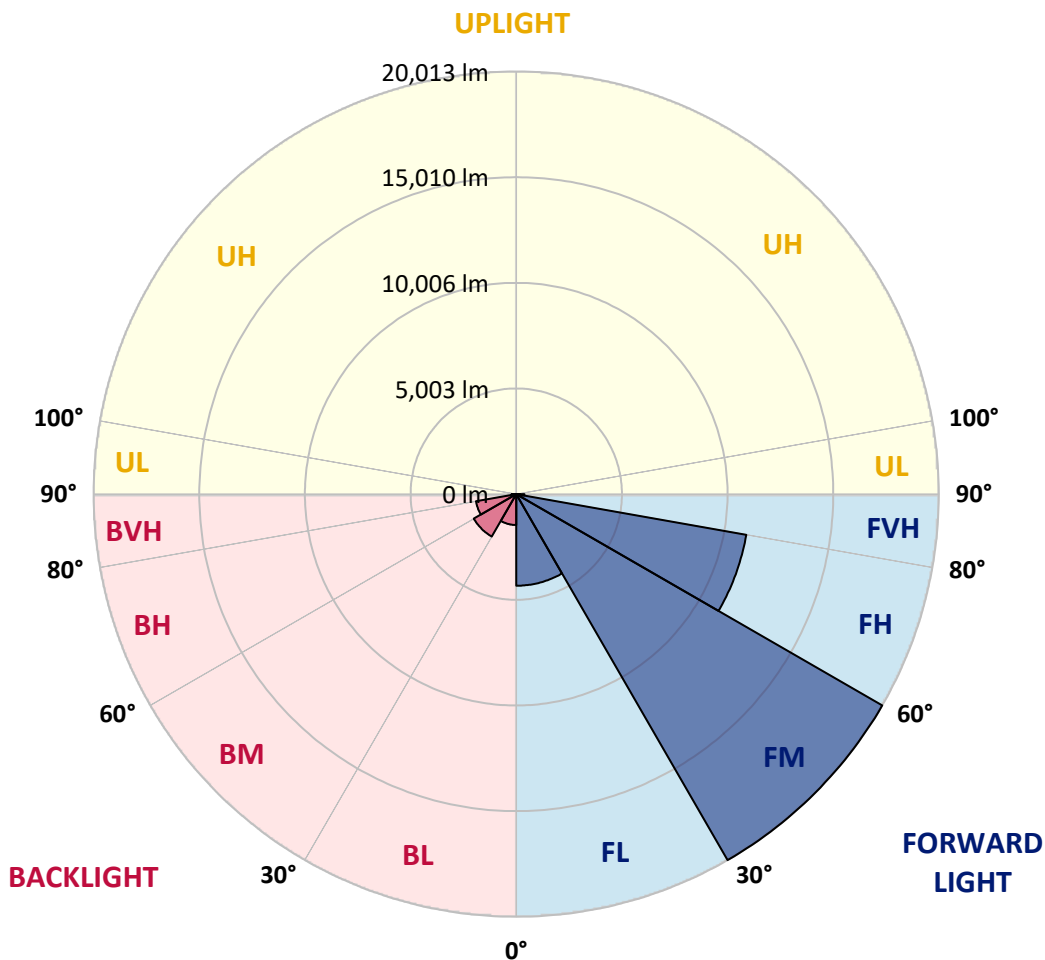
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4337.2	10.4			
FM (30°-60°)	20012.7	48.0			
FH (60°-80°)	11062.5	26.5			G4/12000
FVH (80°-90°)	381.6	0.9			G3/500
BL (0°-30°)	1462.0	3.5	B3/2500		
BM (30°-60°)	2319.9	5.6	B2/2500		
BH (60°-80°)	1937.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	217.3	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°	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5
2.5°	5925.4	5854.1	5782.8	5630.6	5578.3	5435.6	5174.1	4884.0	4646.2	4612.9	4446.5
5°	7352.1	7247.5	7223.7	7138.1	6867.0	6591.2	6163.2	5697.2	5117.0	5159.8	4589.1
7.5°	8422.1	8360.3	8231.9	8151.0	7989.3	7623.2	7180.9	6562.7	5825.6	5682.9	4907.7
10°	9230.6	9145.0	9140.2	9068.9	8983.3	8607.6	8269.9	7437.7	6491.3	6296.4	5297.7
12.5°	9639.5	9625.3	9877.3	9877.3	9844.0	9687.1	9106.9	8346.0	7123.8	7057.3	5749.5
15°	10081.8	9962.9	10181.7	10348.1	10433.7	10514.6	10034.2	9230.6	7932.3	7803.9	6234.5
17.5°	10081.8	10072.3	10291.0	10566.9	11013.9	11118.5	10857.0	10043.8	8602.8	8507.7	6767.2
20°	9910.6	10048.5	10200.7	10571.6	11056.7	11479.9	11556.0	10876.0	9344.7	9268.6	7371.1
22.5°	10709.5	10576.4	10733.3	10876.0	11251.7	11893.7	12102.9	11608.3	10124.6	9834.5	7918.0
25°	12050.6	11960.2	11846.1	11636.9	11793.8	12074.4	12393.0	12150.5	10790.4	10467.0	8445.9
27.5°	13358.4	13363.1	13115.8	12659.3	12321.7	12378.7	12754.4	12626.0	11351.5	11208.9	8807.3
30°	15217.8	15103.7	14827.8	14209.6	13548.6	13006.5	12944.6	13068.3	12064.9	11789.0	9325.7
32.5°	16611.2	16635.0	16245.0	15355.7	14452.2	14009.9	13467.8	13520.1	12516.6	12312.2	9739.4
35°	17738.3	17709.7	17433.9	16696.8	15626.8	15094.2	14361.8	14062.2	13567.6	13244.2	10371.9
37.5°	18955.7	18722.7	18275.6	17443.4	16758.6	16021.5	15308.2	14632.9	14266.7	13876.7	10914.0
40°	19445.5	19445.5	18846.3	18465.9	17652.7	17096.3	16635.0	15384.3	15117.9	15041.8	11608.3
42.5°	19098.3	19312.3	19065.1	18632.3	18299.4	17595.6	17471.9	16164.2	16168.9	16016.7	12440.6
45°	19065.1	18770.2	18565.7	18675.1	18518.2	18480.1	18794.0	17243.7	17272.2	17253.2	13558.1
47.5°	18109.2	17976.0	18280.4	18461.1	18589.5	19179.2	20082.7	18532.4	18736.9	18594.3	14846.9
50°	17158.1	17134.3	17324.5	17980.8	18537.2	19507.3	21309.7	20520.3	21190.8	21181.3	17181.9
52.5°	14552.0	14804.1	15550.7	16939.3	18313.7	19954.3	22237.0	23059.7	24339.0	24686.1	19117.4
55°	12060.1	11927.0	13030.2	15046.6	17338.8	20130.3	23273.7	24586.3	26469.5	26721.5	21105.2
57.5°	9382.7	9630.0	10500.3	12435.8	15322.4	19260.0	24034.6	26093.8	28875.8	29070.8	23411.6
60°	7000.2	7033.5	7989.3	9549.2	12640.3	17296.0	24281.9	27639.3	31634.0	32190.4	25827.5
62.5°	4403.7	4603.4	5331.0	6867.0	9515.9	14547.3	23173.9	28576.2	34525.4	34672.8	28262.3
65°	2373.0	2501.4	3048.3	4013.7	6648.3	11004.4	20234.9	28015.0	35885.5	36760.5	29346.6
67°	1754.8	1778.6	2030.6	2563.2	4446.5	8284.2	16872.7	25984.4	36503.7	37141.0	29389.4
67.5°	1645.4	1678.7	1878.4	2301.7	3942.4	7627.9	15993.0	25261.6	36227.9	36912.7	29056.5
70°	1407.6	1417.2	1464.7	1583.6	2211.3	4589.1	10890.2	20701.0	33579.0	34235.3	26721.5
72.5°	1250.7	1260.2	1279.2	1303.0	1498.0	2653.6	6624.5	15931.1	29184.9	30231.1	23055.0
75°	1098.5	1131.8	1141.3	1122.3	1274.5	1726.3	3523.9	11708.2	23806.4	24315.2	17928.5
77.5°	932.1	946.4	965.4	984.4	1136.6	1288.8	1693.0	7903.7	16340.1	16031.0	9696.6
80°	784.7	789.4	803.7	818.0	984.4	984.4	960.6	4270.5	7138.1	6824.2	3276.6
82.5°	561.2	594.4	627.7	665.8	818.0	661.0	627.7	1902.2	2258.9	2149.5	1108.0
85°	218.8	266.3	413.7	456.5	518.4	356.7	418.5	822.7	941.6	932.1	413.7
87.5°	38.0	42.8	114.1	176.0	190.2	123.6	199.7	294.8	351.9	380.4	152.2
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°	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5	4270.5
2.5°	4308.5	4161.1	3985.2	3809.2	3695.1	3514.4	3500.1	3390.7	3376.5	3338.4	3357.4
5°	4341.8	4165.9	3809.2	3528.6	3400.2	3295.6	3319.4	3271.8	3257.6	3233.8	3195.7
7.5°	4603.4	4256.2	3723.6	3481.1	3386.0	3338.4	3338.4	3281.3	3238.5	3267.1	3295.6
10°	4774.6	4299.0	3790.2	3547.7	3471.6	3366.9	3405.0	3333.7	3357.4	3300.4	3300.4
12.5°	5050.4	4541.6	3928.1	3647.5	3523.9	3428.8	3466.8	3386.0	3366.9	3371.7	3357.4
15°	5421.3	4703.3	3989.9	3704.6	3619.0	3500.1	3471.6	3400.2	3328.9	3305.1	3333.7
17.5°	5768.5	4903.0	4032.7	3737.9	3600.0	3466.8	3433.5	3343.2	3319.4	3248.1	3191.0
20°	6182.2	5140.8	4089.8	3766.4	3528.6	3395.5	3309.9	3219.5	3138.7	3095.9	3114.9
22.5°	6458.1	5264.4	4118.3	3709.3	3424.0	3300.4	3119.7	3057.8	2943.7	2896.1	2858.1
25°	6909.8	5416.6	4047.0	3552.4	3238.5	3038.8	2877.1	2791.5	2710.7	2648.8	2629.8
27.5°	7024.0	5530.7	3880.5	3286.1	2943.7	2734.4	2596.5	2491.9	2439.6	2344.5	2325.5
30°	7356.9	5416.6	3633.3	2962.7	2663.1	2449.1	2311.2	2235.1	2111.5	2087.7	2035.4
32.5°	7570.9	5449.9	3319.4	2648.8	2339.7	2149.5	2059.2	1983.1	1949.8	1835.6	1807.1
35°	7927.5	5335.7	3000.8	2358.8	2073.4	1926.0	1849.9	1826.1	1716.8	1664.4	1616.9
37.5°	8155.8	5269.2	2682.1	2030.6	1783.3	1721.5	1745.3	1645.4	1512.3	1412.4	1379.1
40°	8555.3	5245.4	2320.7	1759.6	1583.6	1569.3	1645.4	1455.2	1212.7	1127.1	1079.5
42.5°	9130.7	5083.7	2040.1	1517.0	1426.7	1488.5	1502.8	1212.7	1074.8	1003.4	970.1
45°	9682.3	5117.0	1764.3	1255.5	1241.2	1331.6	1298.3	1027.2	946.4	894.0	922.6
47.5°	10742.8	5283.4	1493.2	1046.2	1117.6	1203.2	1008.2	917.8	841.7	803.7	808.4
50°	12383.5	5445.1	1255.5	955.9	1055.7	1089.0	865.5	832.2	827.5	751.4	746.6
52.5°	13367.9	5383.3	1212.7	1070.0	1131.8	1089.0	941.6	917.8	879.8	846.5	808.4
55°	14932.5	5564.0	1303.0	1250.7	1284.0	1046.2	1055.7	1046.2	1017.7	932.1	955.9
57.5°	16178.4	5682.9	1421.9	1398.1	1379.1	1089.0	1103.3	1108.0	1089.0	1051.0	1084.3
60°	17890.4	5920.7	1545.6	1550.3	1555.1	1184.1	1207.9	1236.4	1231.7	1217.4	1226.9
62.5°	18941.4	5811.3	1683.5	1759.6	1735.8	1379.1	1374.4	1393.4	1393.4	1417.2	1431.4
65°	18784.5	5407.1	1754.8	1945.0	1821.4	1521.8	1521.8	1531.3	1536.0	1583.6	1588.4
67°	17842.9	4684.2	1716.8	1973.6	1821.4	1578.8	1578.8	1588.4	1555.1	1678.7	1640.7
67.5°	17405.4	4470.2	1683.5	1949.8	1807.1	1574.1	1574.1	1578.8	1550.3	1669.2	1631.2
70°	15137.0	3319.4	1450.4	1726.3	1674.0	1531.3	1531.3	1502.8	1479.0	1635.9	1602.6
72.5°	12920.9	2411.1	1165.1	1469.5	1512.3	1474.2	1483.7	1412.4	1345.8	1455.2	1426.7
75°	9896.3	1773.8	908.3	1131.8	1279.2	1379.1	1440.9	1260.2	1174.6	1203.2	1150.8
77.5°	5521.2	1155.6	718.1	837.0	974.9	1284.0	1383.9	1136.6	960.6	927.3	927.3
80°	1873.7	675.3	527.9	623.0	670.5	1136.6	1293.5	922.6	756.1	722.8	699.1
82.5°	708.6	413.7	361.4	428.0	428.0	898.8	1055.7	708.6	570.7	737.1	751.4
85°	323.4	247.3	237.8	247.3	247.3	551.6	746.6	461.3	513.6	442.3	390.0
87.5°	128.4	118.9	109.4	104.6	85.6	95.1	256.8	123.6	233.0	61.8	57.1
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)