

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: P480562

Luminaire Tested: **IFLD-L-SA7C-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480562
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

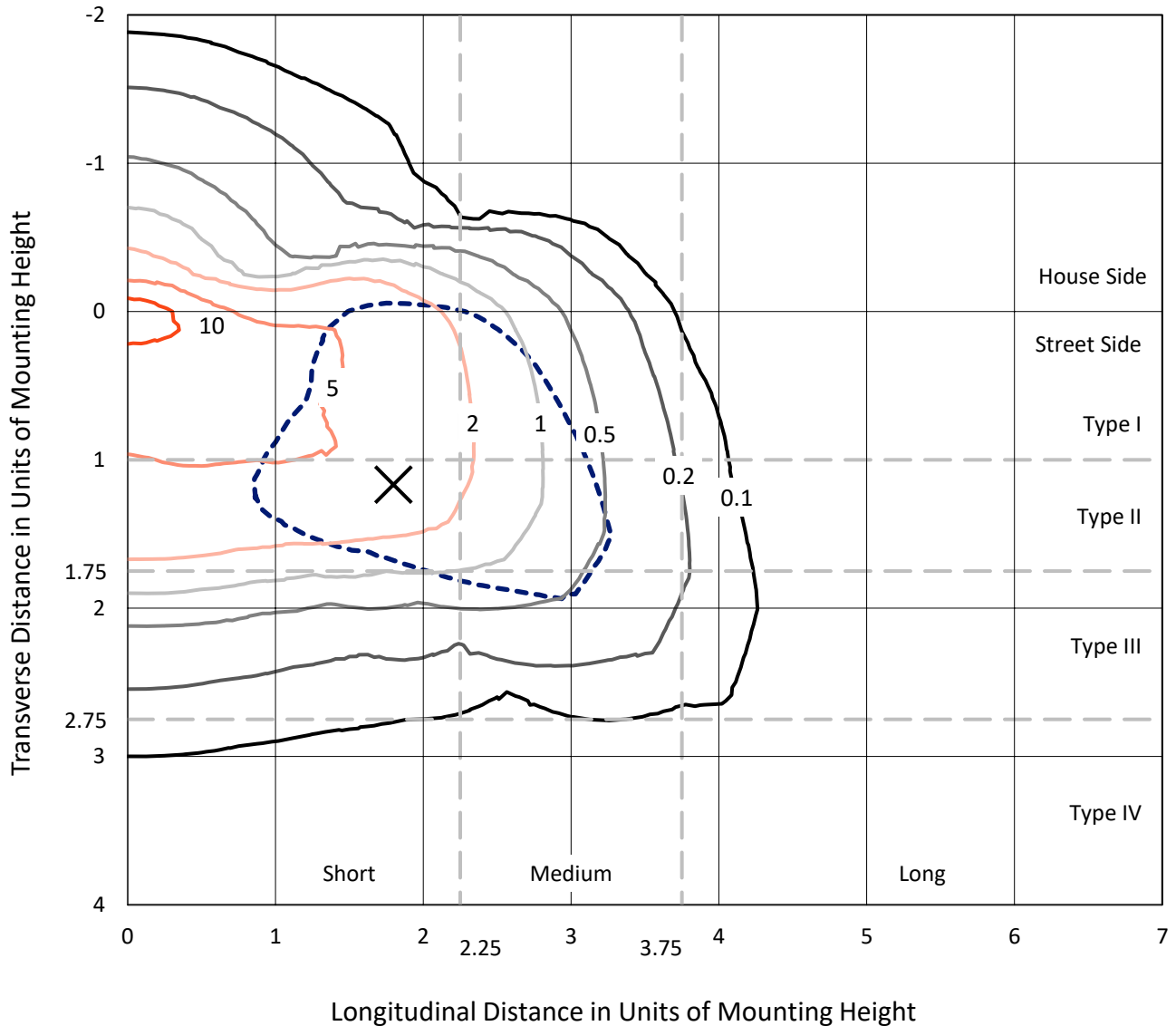
Lumens per Lamp: N/A
Luminaire Lumens: 44744.1 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

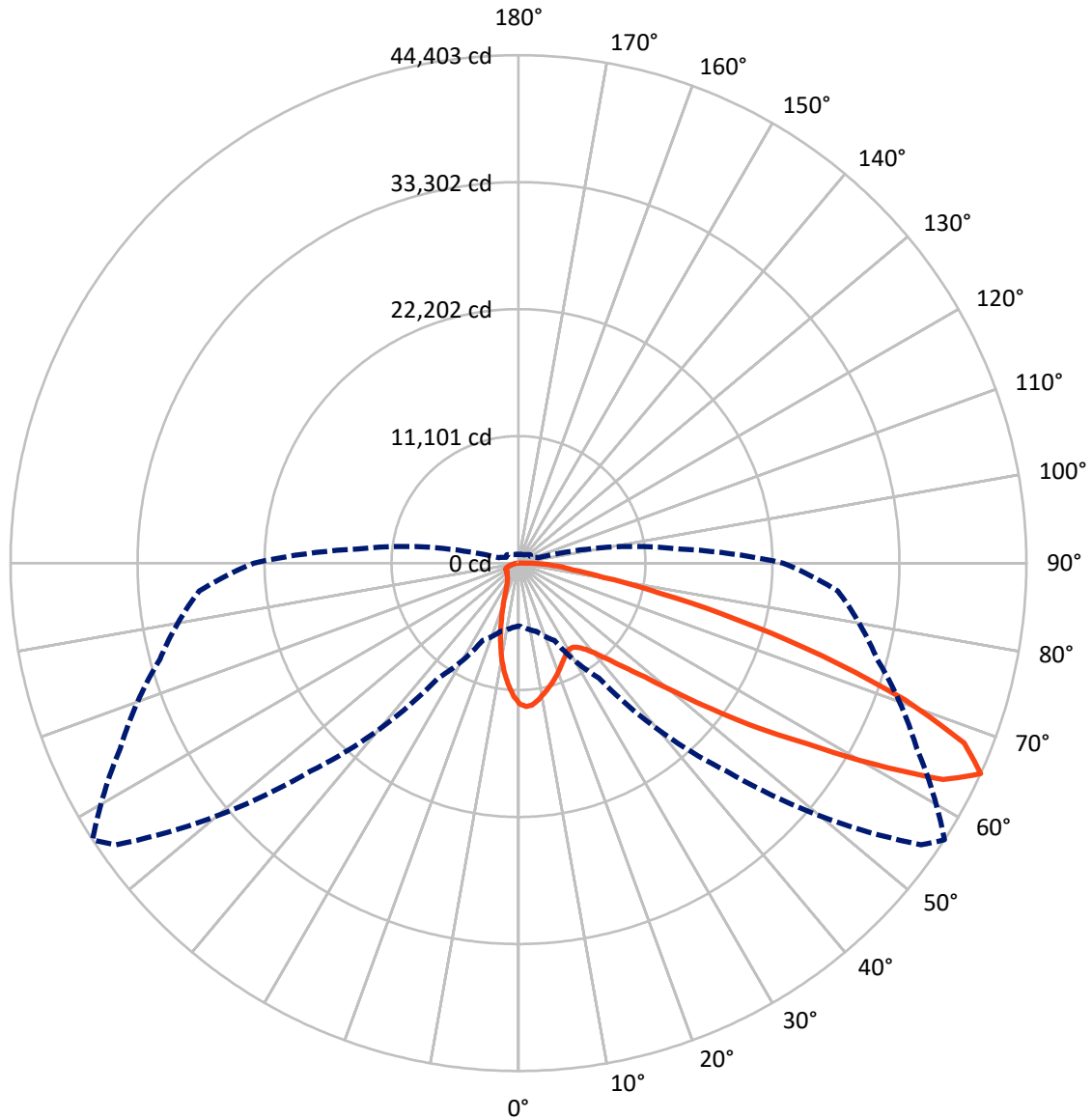
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6861.9	0.0	6861.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	37882.2	0.0	37882.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	44744.1	0.0	44744.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1030.4	2.3
10°-20°	2217.5	5.0
20°-30°	2867.0	6.4
30°-40°	3858.1	8.6
40°-50°	6151.9	13.7
50°-60°	10865.8	24.3
60°-70°	11953.8	26.7
70°-80°	5000.5	11.2
80°-90°	799.2	1.8
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°	44744.1	100.0
0°-180°	44744.1	100.0

Coefficient of Utilization



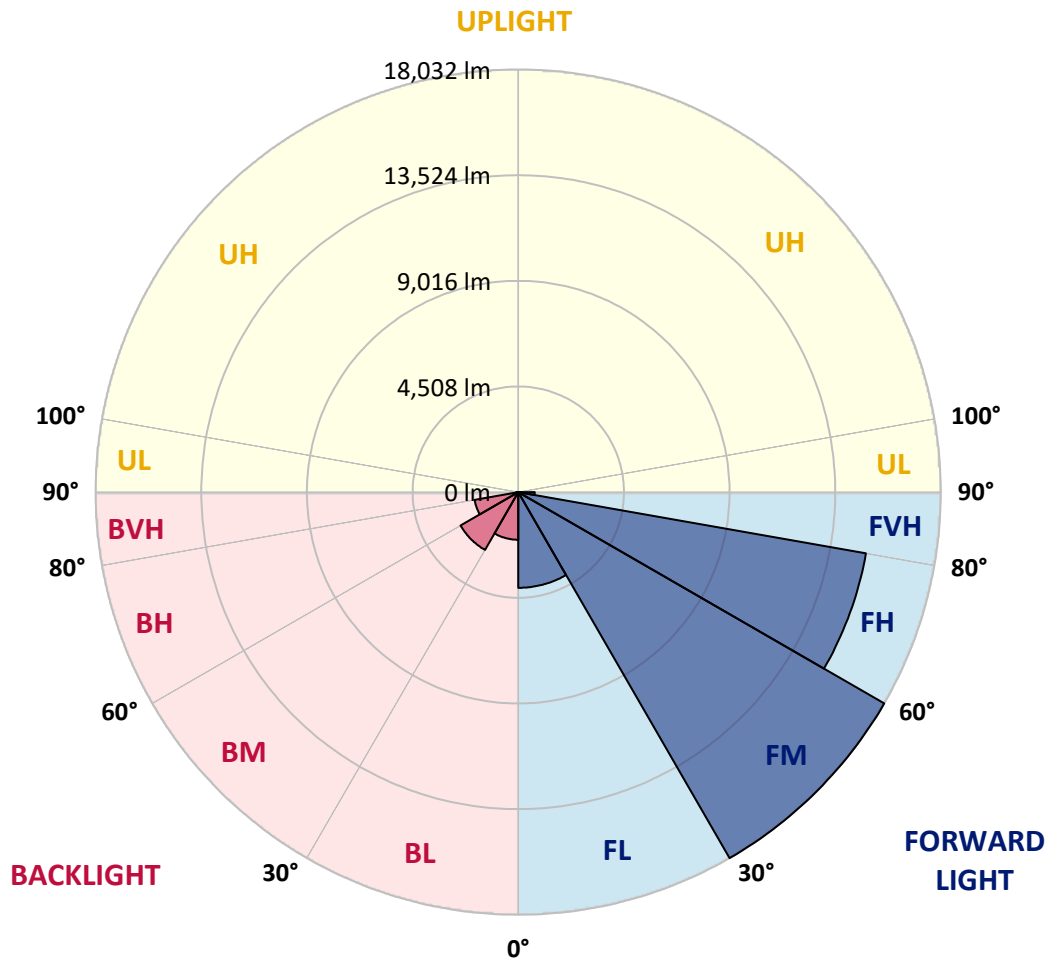
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4082.7	9.1			
FM (30°-60°)	18031.8	40.3			
FH (60°-80°)	15062.2	33.7			G5
FVH (80°-90°)	705.4	1.6			G4/750
BL (0°-30°)	2032.2	4.5	B3/2500		
BM (30°-60°)	2844.0	6.4	B3/5000		
BH (60°-80°)	1892.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	93.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0
2.5°	12636.3	12656.4	12656.4	12696.7	12560.7	12626.2	12616.1	12555.7	12575.9	12470.1	12364.4
5°	12278.8	12263.7	12344.3	12354.3	12460.1	12490.3	12515.4	12475.2	12485.2	12253.7	12153.0
7.5°	11362.6	11357.5	11493.5	11609.3	11830.8	12037.2	12173.1	12132.8	12188.2	12042.2	11805.6
10°	10275.1	10390.9	10531.9	10647.7	11055.5	11317.3	11669.7	11704.9	11916.3	11881.1	11453.2
12.5°	9459.6	9509.9	9615.6	9947.9	10320.5	10753.4	11256.8	11302.2	11508.6	11609.3	11236.7
15°	8790.0	8835.3	8971.2	9217.9	9635.8	10149.3	10788.6	10904.4	11317.3	11352.5	10954.8
17.5°	8301.7	8336.9	8427.5	8674.2	9016.6	9676.1	10280.2	10486.6	11030.3	11201.5	10662.8
20°	8110.4	8034.9	8085.2	8241.3	8583.6	9092.1	9872.4	10053.6	10748.4	11085.7	10385.9
22.5°	8024.8	7959.3	7989.5	7979.5	8251.3	8613.8	9434.4	9625.7	10481.6	10949.7	10139.2
25°	8090.2	8090.2	8060.0	8034.9	8065.1	8301.7	8961.2	9258.2	10124.1	10834.0	9887.5
27.5°	8442.6	8306.7	8321.8	8216.1	8185.9	8185.9	8749.7	8925.9	10008.3	10768.5	9681.1
30°	8669.2	8734.6	8739.7	8583.6	8427.5	8145.6	8553.4	8724.6	9912.7	10849.1	9560.3
32.5°	9248.1	9217.9	9132.3	9102.1	8870.6	8553.4	8649.0	8764.8	9857.3	11030.3	9595.5
35°	9827.1	9812.0	9817.0	9801.9	9560.3	9092.1	8905.8	9061.9	9958.0	11347.5	9716.3
37.5°	10426.2	10466.5	10637.6	10637.6	10380.9	9872.4	9625.7	9580.4	10325.5	11866.0	10003.3
40°	11025.3	11126.0	11342.4	11684.8	11322.3	10849.1	10451.3	10380.9	10768.5	12560.7	10693.0
42.5°	11599.2	11765.3	12193.2	12701.7	12580.9	12107.7	11579.0	11498.5	11679.7	13592.8	11654.6
45°	12334.2	12475.2	13149.8	13930.1	14096.2	13678.4	13059.1	12993.7	12983.6	15103.1	12978.6
47.5°	13451.8	13602.9	14277.5	15062.8	15576.3	15641.8	14947.0	14876.6	14634.9	17142.0	14916.8
50°	14851.4	15098.1	15667.0	16583.2	17328.3	18028.1	17831.7	17625.3	17152.1	19513.2	17373.6
52.5°	15873.4	16175.4	16945.7	18118.7	19432.7	20545.3	21250.1	21250.1	20162.6	22116.0	20328.8
55°	16145.2	16326.5	17298.1	18994.7	21245.0	24059.2	25534.3	25423.6	23747.1	24854.7	23767.2
57.5°	15062.8	15299.4	16477.5	18254.6	22196.5	27346.7	29788.4	29813.5	27663.9	28036.4	27160.4
60°	12082.5	12158.0	13547.5	15923.7	21280.3	29994.8	35598.0	35693.7	32119.3	30870.7	28887.2
62.5°	8352.0	8593.7	9640.8	11725.0	17630.4	29697.7	41201.3	41674.5	35688.6	32365.9	29159.1
65°	5497.5	5643.5	6202.3	7471.0	12273.8	25740.7	42943.2	44403.1	38417.3	32451.5	28021.3
67.5°	3987.2	4012.4	4178.5	4833.0	7375.3	18511.4	39967.8	42026.9	39439.2	31736.7	25353.1
70°	3222.0	3242.1	3302.5	3720.4	4762.5	11584.1	32597.5	35824.6	36373.3	28348.5	20419.4
72.5°	2617.9	2643.0	2718.6	3111.2	3926.8	6444.0	23837.7	27769.6	29587.0	20973.2	13572.7
75°	2059.1	2079.2	2260.4	2648.1	3690.2	4425.2	15812.9	19664.2	19910.9	12258.7	6353.4
77.5°	1409.6	1444.9	1666.4	2245.3	3473.7	3871.4	9857.3	12596.0	11302.2	4797.8	2184.9
80°	896.1	946.5	1077.4	1701.6	3071.0	3695.2	6131.9	7521.3	4948.8	1641.2	1052.2
82.5°	528.6	579.0	709.8	1102.5	2411.5	3428.4	4319.5	4707.1	2320.8	840.7	634.3
85°	292.0	327.2	427.9	664.5	1414.7	3045.8	3458.6	3378.1	1329.1	448.1	397.7
87.5°	95.7	110.8	156.1	266.8	584.0	1434.8	2074.2	1948.3	689.7	206.4	156.1
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°	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0	12304.0
2.5°	12293.9	12278.8	12052.3	11881.1	11589.1	11347.5	11251.8	11120.9	11115.9	11020.2	10995.1
5°	11996.9	11840.8	11493.5	11161.2	10642.7	10295.3	9978.1	9756.6	9666.0	9469.6	9424.3
7.5°	11614.3	11407.9	10874.2	10250.0	9640.8	9097.1	8603.7	8110.4	7833.5	7737.8	7632.1
10°	11216.6	10854.1	10063.7	9363.9	8513.1	7677.4	6902.1	6207.4	5829.8	5563.0	5447.2
12.5°	10899.4	10416.1	9409.2	8362.1	7239.4	6121.8	5220.6	4490.7	4062.7	3861.4	3770.7
15°	10542.0	9902.6	8694.4	7370.3	5970.8	4702.1	3821.1	3247.2	3076.0	2980.3	2965.2
17.5°	10164.4	9424.3	7919.1	6393.6	4732.3	3539.2	2970.3	2738.7	2663.2	2622.9	2602.8
20°	9812.0	8996.4	7123.6	5306.2	3705.3	2839.4	2572.6	2451.7	2446.7	2466.8	2461.8
22.5°	9313.6	8437.6	6338.3	4299.3	2960.2	2471.9	2300.7	2270.5	2300.7	2325.9	2335.9
25°	9031.7	7979.5	5462.3	3413.3	2446.7	2195.0	2139.6	2129.5	2174.8	2205.1	2200.0
27.5°	8739.7	7506.2	4646.7	2733.7	2144.6	1998.6	1988.6	1998.6	2044.0	2089.3	2084.2
30°	8513.1	7128.7	3881.5	2285.6	1913.1	1857.7	1847.6	1857.7	1882.9	1887.9	1887.9
32.5°	8326.8	6680.6	3232.1	1983.5	1772.1	1726.8	1736.9	1731.8	1736.9	1741.9	1746.9
35°	8216.1	6413.8	2698.4	1797.3	1656.3	1621.1	1616.0	1600.9	1606.0	1611.0	1606.0
37.5°	8452.7	6282.9	2275.5	1666.4	1575.8	1545.6	1535.5	1525.4	1510.3	1510.3	1510.3
40°	8810.1	6212.4	2018.8	1580.8	1515.3	1480.1	1449.9	1439.8	1439.8	1444.9	1449.9
42.5°	9520.0	6328.2	1842.6	1515.3	1439.8	1399.6	1369.3	1374.4	1389.5	1404.6	1394.5
45°	10547.0	6680.6	1762.0	1465.0	1394.5	1339.1	1319.0	1314.0	1329.1	1354.2	1374.4
47.5°	11891.2	7229.4	1731.8	1419.7	1364.3	1288.8	1263.6	1278.7	1298.9	1334.1	1319.0
50°	14091.2	8462.8	1757.0	1379.4	1319.0	1263.6	1233.4	1218.3	1233.4	1258.6	1268.7
52.5°	16965.8	10703.1	1852.6	1359.3	1288.8	1243.5	1193.1	1168.0	1183.1	1203.2	1203.2
55°	20404.3	13764.0	2119.5	1334.1	1238.5	1213.3	1157.9	1107.6	1117.6	1117.6	1112.6
57.5°	23435.0	16074.7	2436.6	1298.9	1208.2	1173.0	1102.5	1042.1	1032.0	1037.1	1042.1
60°	24794.3	16688.9	2587.7	1288.8	1208.2	1122.7	1027.0	966.6	951.5	941.4	941.4
62.5°	24557.6	15626.7	2280.6	1243.5	1238.5	1082.4	956.5	891.1	870.9	850.8	855.8
65°	23127.9	14111.3	1797.3	1183.1	1243.5	1057.2	886.0	820.6	785.4	760.2	755.2
67.5°	20515.0	12047.2	1424.7	1137.8	1193.1	1011.9	825.6	750.1	719.9	694.7	684.7
70°	16049.6	9444.5	1238.5	1077.4	1072.3	901.2	755.2	689.7	644.4	614.2	614.2
72.5°	10406.0	5970.8	1062.3	956.5	926.3	755.2	654.5	614.2	579.0	553.8	553.8
75°	4712.2	2773.9	855.8	800.5	755.2	604.1	553.8	533.6	503.4	478.3	478.3
77.5°	1691.5	1183.1	639.4	629.3	563.8	468.2	448.1	433.0	412.8	387.6	387.6
80°	946.5	750.1	478.3	458.1	392.7	347.4	322.2	322.2	312.1	297.0	292.0
82.5°	599.1	488.3	352.4	307.1	256.8	231.6	221.5	216.5	211.4	191.3	186.3
85°	377.6	332.3	231.6	181.2	151.0	115.8	110.8	105.7	95.7	85.6	85.6
87.5°	171.2	191.3	90.6	55.4	40.3	25.2	15.1	5.0	0.0	0.0	0.0
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)