

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: P480523

Luminaire Tested: **IFLD-L-SA7C-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480523
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

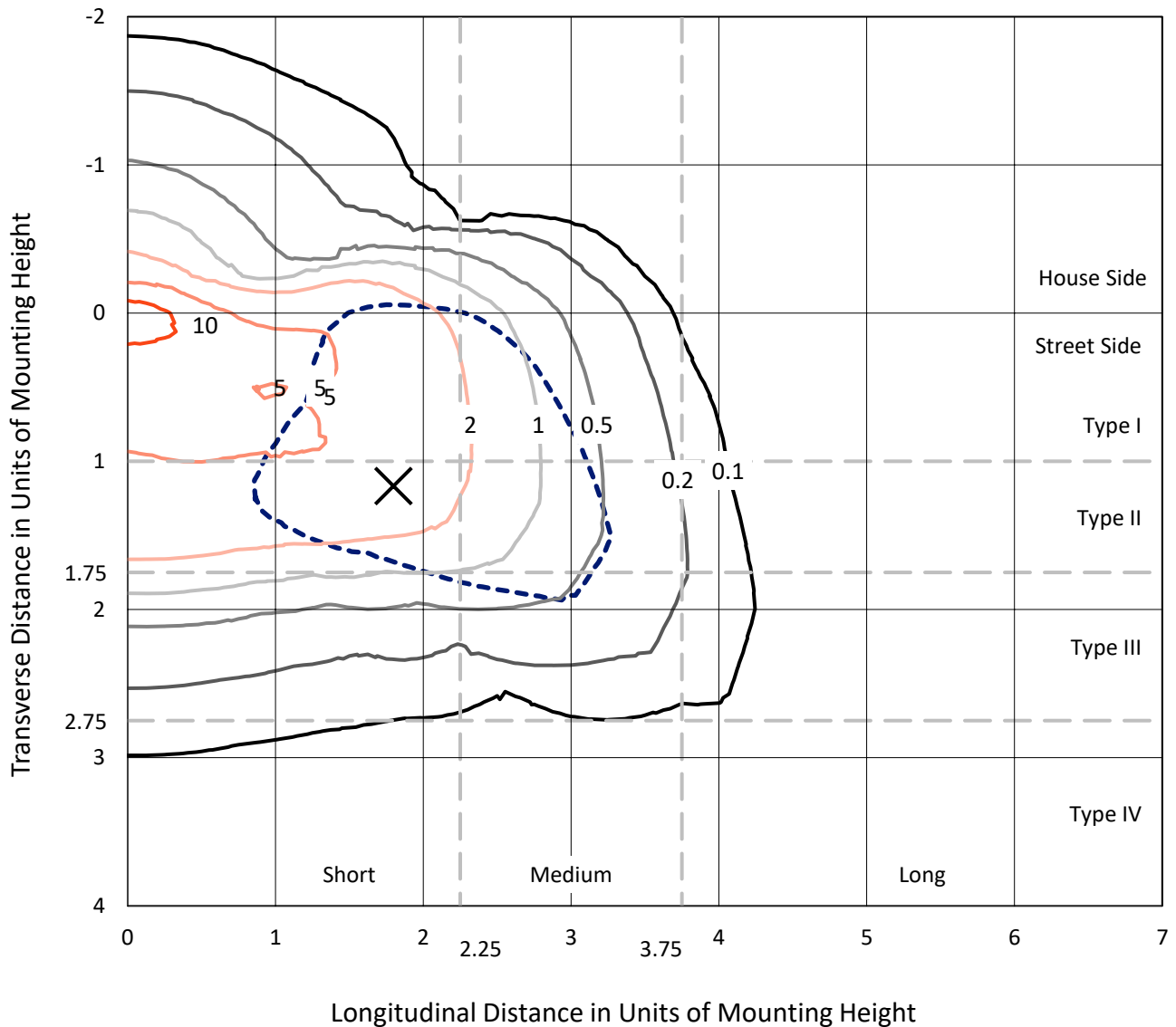
Lumens per Lamp: N/A
Luminaire Lumens: 43742.4 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

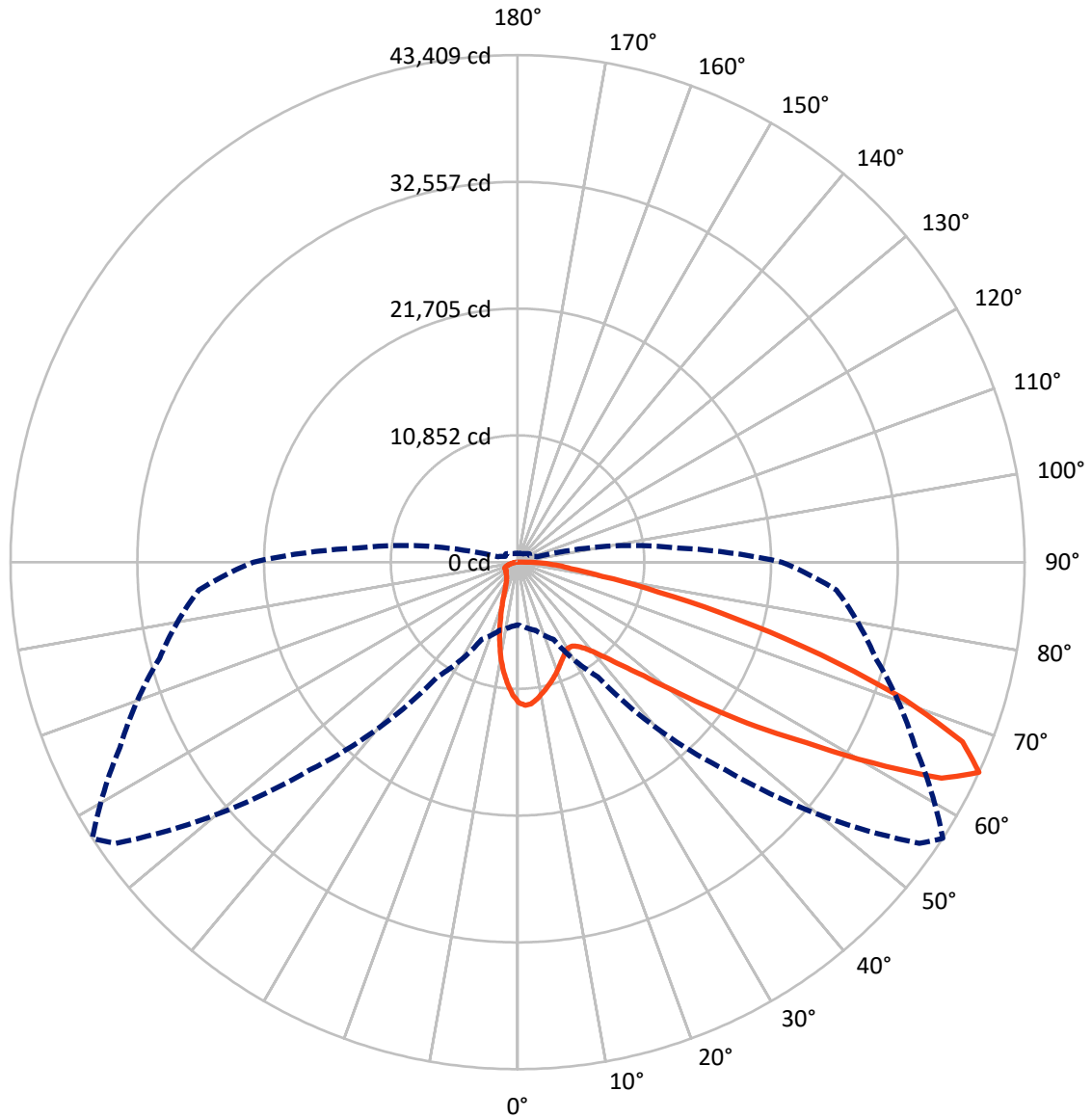
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 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	6708.3	0.0	6708.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	37034.1	0.0	37034.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	43742.4	0.0	43742.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1007.3	2.3
10°-20°	2167.9	5.0
20°-30°	2802.9	6.4
30°-40°	3771.7	8.6
40°-50°	6014.2	13.7
50°-60°	10622.5	24.3
60°-70°	11686.2	26.7
70°-80°	4888.5	11.2
80°-90°	781.3	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°	43742.4	100.0
0°-180°	43742.4	100.0

Coefficient of Utilization



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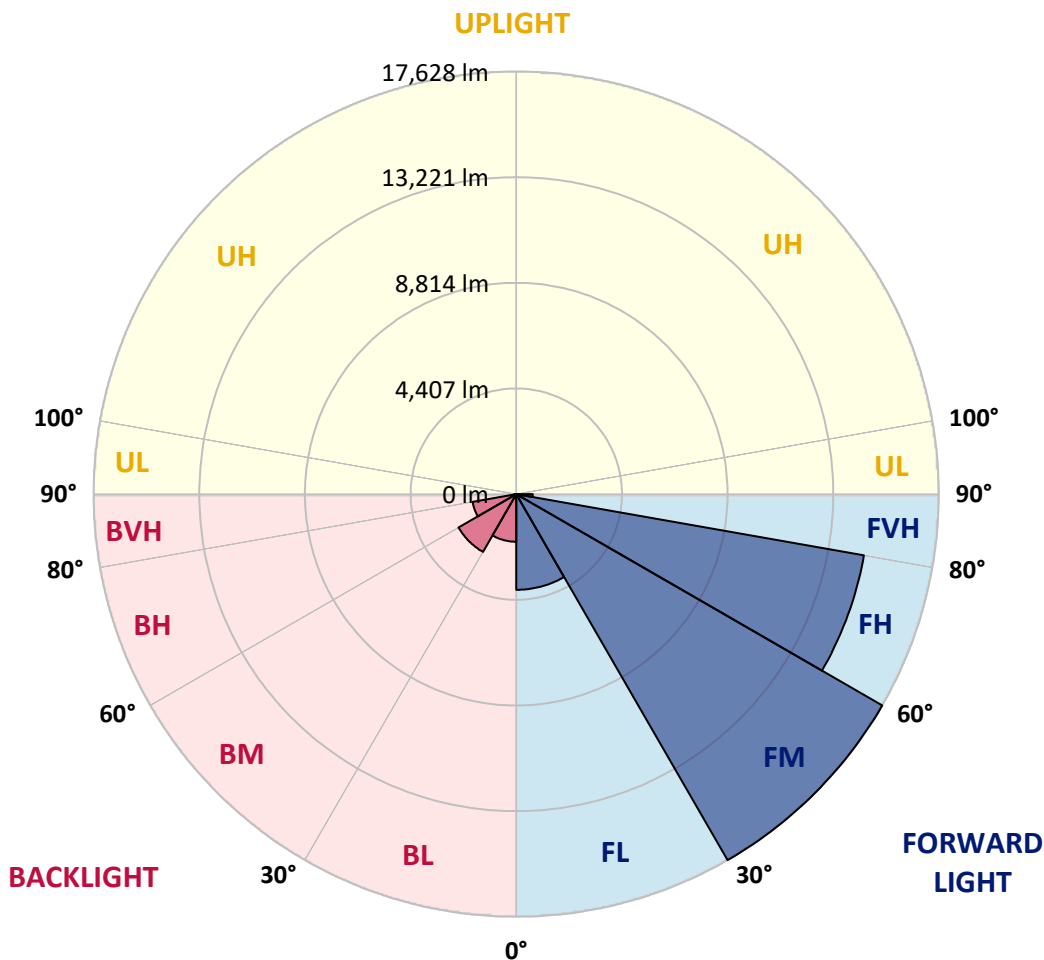
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3991.3	9.1			
FM (30°-60°)	17628.1	40.3			
FH (60°-80°)	14725.0	33.7			G5
FVH (80°-90°)	689.6	1.6			G4/750
BL (0°-30°)	1986.7	4.5	B3/2500		
BM (30°-60°)	2780.3	6.4	B3/5000		
BH (60°-80°)	1849.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	91.7	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°	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5
2.5°	12353.4	12373.1	12373.1	12412.4	12279.5	12343.5	12333.7	12274.6	12294.3	12191.0	12087.6
5°	12003.9	11989.2	12067.9	12077.8	12181.1	12210.6	12235.3	12195.9	12205.7	11979.3	11880.9
7.5°	11108.2	11103.3	11236.2	11349.4	11565.9	11767.7	11900.6	11861.2	11915.3	11772.6	11541.3
10°	10045.1	10158.3	10296.1	10409.3	10808.0	11063.9	11408.4	11442.9	11649.6	11615.1	11196.8
12.5°	9247.8	9297.0	9400.4	9725.2	10089.4	10512.7	11004.8	11049.1	11250.9	11349.4	10985.1
15°	8593.2	8637.5	8770.4	9011.6	9420.1	9922.1	10547.1	10660.3	11063.9	11098.3	10709.5
17.5°	8115.8	8150.3	8238.9	8480.0	8814.7	9459.4	10050.0	10251.8	10783.4	10950.7	10424.1
20°	7928.8	7855.0	7904.2	8056.8	8391.4	8888.5	9651.4	9828.6	10507.7	10837.5	10153.4
22.5°	7845.1	7781.1	7810.7	7800.8	8066.6	8421.0	9223.2	9410.2	10246.9	10704.6	9912.2
25°	7909.1	7909.1	7879.6	7855.0	7884.5	8115.8	8760.6	9050.9	9897.5	10591.4	9666.1
27.5°	8253.6	8120.7	8135.5	8032.2	8002.6	8002.6	8553.8	8726.1	9784.3	10527.4	9464.4
30°	8475.1	8539.1	8544.0	8391.4	8238.9	7963.2	8361.9	8529.2	9690.8	10606.2	9346.2
32.5°	9041.1	9011.6	8927.9	8898.4	8672.0	8361.9	8455.4	8568.6	9636.6	10783.4	9380.7
35°	9607.1	9592.3	9597.2	9582.5	9346.2	8888.5	8706.4	8859.0	9735.0	11093.4	9498.8
37.5°	10192.8	10232.1	10399.5	10399.5	10148.5	9651.4	9410.2	9365.9	10094.3	11600.4	9779.3
40°	10778.4	10876.9	11088.5	11423.2	11068.8	10606.2	10217.4	10148.5	10527.4	12279.5	10453.6
42.5°	11339.5	11501.9	11920.3	12417.4	12299.2	11836.6	11319.8	11241.1	11418.3	13288.5	11393.6
45°	12058.1	12195.9	12855.4	13618.2	13780.7	13372.2	12766.8	12702.8	12693.0	14765.0	12688.0
47.5°	13150.7	13298.3	13957.8	14725.6	15227.6	15291.6	14612.4	14543.5	14307.3	16758.3	14582.9
50°	14518.9	14760.1	15316.2	16212.0	16940.4	17624.5	17432.5	17230.7	16768.1	19076.4	16984.7
52.5°	15518.0	15813.3	16566.3	17713.1	18997.6	20085.3	20774.3	20774.3	19711.3	21620.9	19873.7
55°	15783.8	15960.9	16910.8	18569.4	20769.4	23520.6	24962.7	24854.4	23215.5	24298.2	23235.2
57.5°	14725.6	14956.9	16108.6	17845.9	21699.6	26734.5	29121.5	29146.1	27044.5	27408.7	26552.4
60°	11812.0	11885.8	13244.2	15567.2	20803.9	29323.3	34801.1	34894.6	31400.2	30179.6	28240.5
62.5°	8165.0	8401.3	9425.0	11462.5	17235.7	29032.9	40278.9	40741.5	34889.7	31641.4	28506.3
65°	5374.5	5517.2	6063.5	7303.7	11999.0	25164.5	41981.8	43409.1	37557.2	31725.0	27394.0
67.5°	3898.0	3922.6	4085.0	4724.8	7210.2	18096.9	39073.1	41086.0	38556.3	31026.2	24785.5
70°	3149.9	3169.6	3228.6	3637.1	4655.9	11324.7	31867.8	35022.5	35559.0	27713.9	19962.3
72.5°	2559.3	2583.9	2657.7	3041.6	3838.9	6299.7	23304.1	27147.9	28924.6	20503.6	13268.8
75°	2013.0	2032.6	2209.8	2588.8	3607.6	4326.1	15458.9	19224.0	19465.2	11984.2	6211.1
77.5°	1378.1	1412.5	1629.1	2195.1	3395.9	3784.8	9636.6	12314.0	11049.1	4690.3	2136.0
80°	876.1	925.3	1053.2	1663.5	3002.2	3612.5	5994.6	7353.0	4838.0	1604.5	1028.6
82.5°	516.8	566.0	694.0	1077.8	2357.5	3351.7	4222.8	4601.8	2268.9	821.9	620.1
85°	285.5	319.9	418.3	649.7	1383.0	2977.6	3381.2	3302.4	1299.3	438.0	388.8
87.5°	93.5	108.3	152.6	260.8	570.9	1402.7	2027.7	1904.7	674.3	201.8	152.6
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°	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5	12028.5
2.5°	12018.7	12003.9	11782.5	11615.1	11329.7	11093.4	10999.9	10872.0	10867.0	10773.5	10748.9
5°	11728.3	11575.7	11236.2	10911.3	10404.4	10064.8	9754.7	9538.2	9449.6	9257.6	9213.4
7.5°	11354.3	11152.5	10630.8	10020.5	9425.0	8893.4	8411.1	7928.8	7658.1	7564.6	7461.2
10°	10965.5	10611.1	9838.4	9154.3	8322.5	7505.5	6747.6	6068.4	5699.3	5438.4	5325.2
12.5°	10655.4	10182.9	9198.6	8174.9	7077.3	5984.7	5103.8	4390.1	3971.8	3774.9	3686.3
15°	10306.0	9680.9	8499.7	7205.3	5837.1	4596.8	3735.5	3174.5	3007.1	2913.6	2898.9
17.5°	9936.8	9213.4	7741.8	6250.5	4626.4	3459.9	2903.8	2677.4	2603.6	2564.2	2544.5
20°	9592.3	8795.0	6964.2	5187.4	3622.3	2775.8	2515.0	2396.8	2391.9	2411.6	2406.7
22.5°	9105.1	8248.7	6196.4	4203.1	2893.9	2416.5	2249.2	2219.7	2249.2	2273.8	2283.7
25°	8829.5	7800.8	5340.0	3336.9	2391.9	2145.8	2091.7	2081.9	2126.2	2155.7	2150.8
27.5°	8544.0	7338.2	4542.7	2672.5	2096.6	1953.9	1944.1	1953.9	1998.2	2042.5	2037.6
30°	8322.5	6969.1	3794.6	2234.4	1870.2	1816.1	1806.2	1816.1	1840.7	1845.6	1845.6
32.5°	8140.4	6531.0	3159.7	1939.1	1732.4	1688.1	1698.0	1693.1	1698.0	1702.9	1707.8
35°	8032.2	6270.2	2638.0	1757.0	1619.2	1584.8	1579.9	1565.1	1570.0	1574.9	1570.0
37.5°	8263.5	6142.2	2224.6	1629.1	1540.5	1511.0	1501.1	1491.3	1476.5	1476.5	1476.5
40°	8612.9	6073.3	1973.6	1545.4	1481.4	1447.0	1417.4	1407.6	1407.6	1412.5	1417.4
42.5°	9306.9	6186.5	1801.3	1481.4	1407.6	1368.2	1338.7	1343.6	1358.4	1373.1	1363.3
45°	10310.9	6531.0	1722.6	1432.2	1363.3	1309.2	1289.5	1284.6	1299.3	1323.9	1343.6
47.5°	11625.0	7067.5	1693.1	1387.9	1333.8	1259.9	1235.3	1250.1	1269.8	1304.2	1289.5
50°	13775.7	8273.3	1717.7	1348.5	1289.5	1235.3	1205.8	1191.0	1205.8	1230.4	1240.3
52.5°	16586.0	10463.5	1811.2	1328.8	1259.9	1215.7	1166.4	1141.8	1156.6	1176.3	1176.3
55°	19947.5	13455.8	2072.0	1304.2	1210.7	1186.1	1132.0	1082.8	1092.6	1092.6	1087.7
57.5°	22910.3	15714.9	2382.1	1269.8	1181.2	1146.7	1077.8	1018.8	1008.9	1013.9	1018.8
60°	24239.2	16315.3	2529.7	1259.9	1181.2	1097.5	1004.0	945.0	930.2	920.4	920.4
62.5°	24007.9	15276.8	2229.5	1215.7	1210.7	1058.2	935.1	871.1	851.4	831.8	836.7
65°	22610.1	13795.4	1757.0	1156.6	1215.7	1033.5	866.2	802.2	767.8	743.2	738.2
67.5°	20055.8	11777.5	1392.8	1112.3	1166.4	989.3	807.2	733.3	703.8	679.2	669.3
70°	15690.3	9233.0	1210.7	1053.2	1048.3	881.0	738.2	674.3	630.0	600.4	600.4
72.5°	10173.1	5837.1	1038.5	935.1	905.6	738.2	639.8	600.4	566.0	541.4	541.4
75°	4606.7	2711.8	836.7	782.5	738.2	590.6	541.4	521.7	492.2	467.6	467.6
77.5°	1653.7	1156.6	625.1	615.2	551.2	457.7	438.0	423.3	403.6	379.0	379.0
80°	925.3	733.3	467.6	447.9	383.9	339.6	315.0	315.0	305.1	290.4	285.5
82.5°	585.7	477.4	344.5	300.2	251.0	226.4	216.6	211.6	206.7	187.0	182.1
85°	369.1	324.8	226.4	177.2	147.6	113.2	108.3	103.4	93.5	83.7	83.7
87.5°	167.3	187.0	88.6	54.1	39.4	24.6	14.8	4.9	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)