

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: P476779

Luminaire Tested: **IFLD-L-SA7C-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476779
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

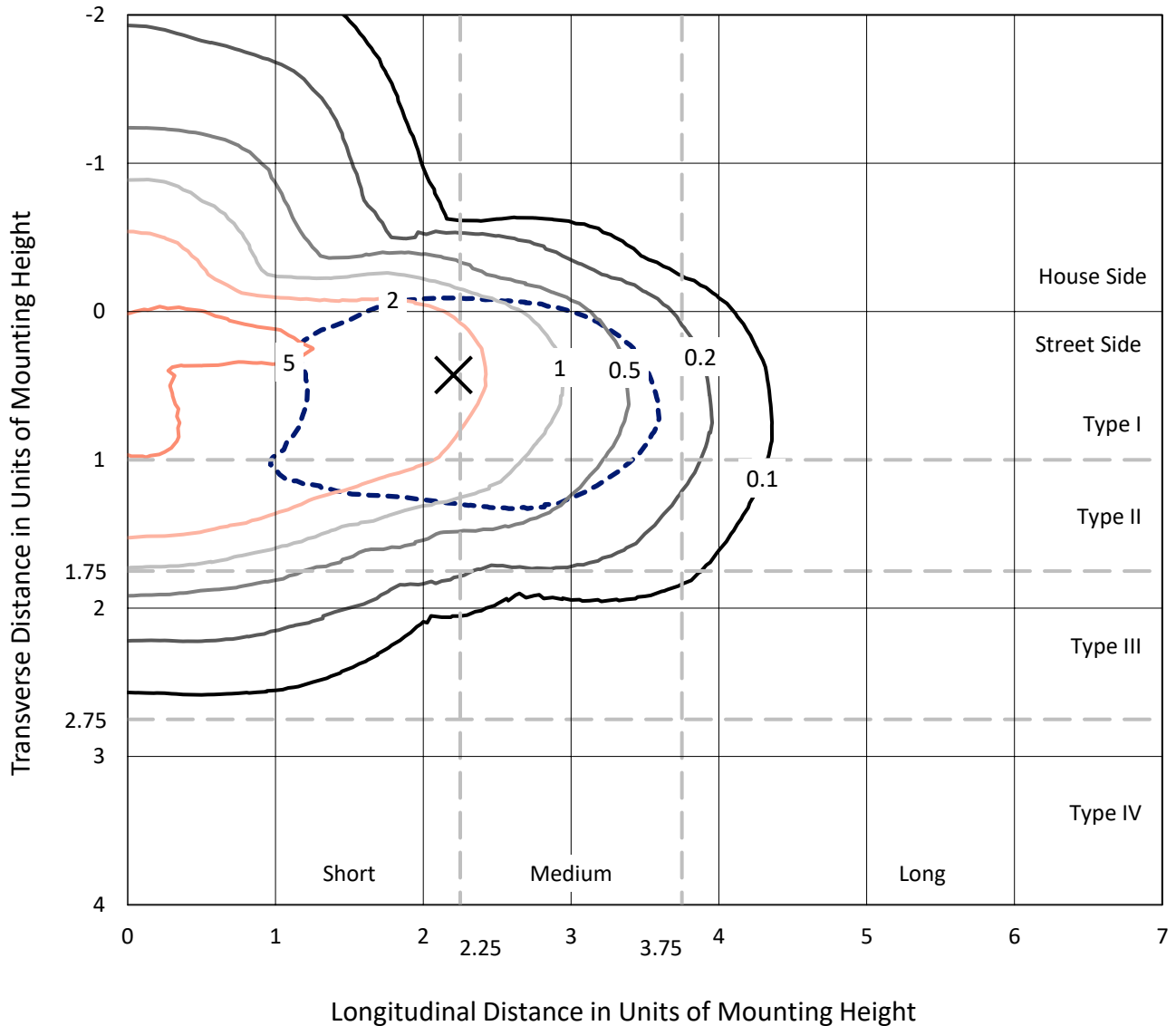
Lumens per Lamp: N/A
Luminaire Lumens: 35182.8 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

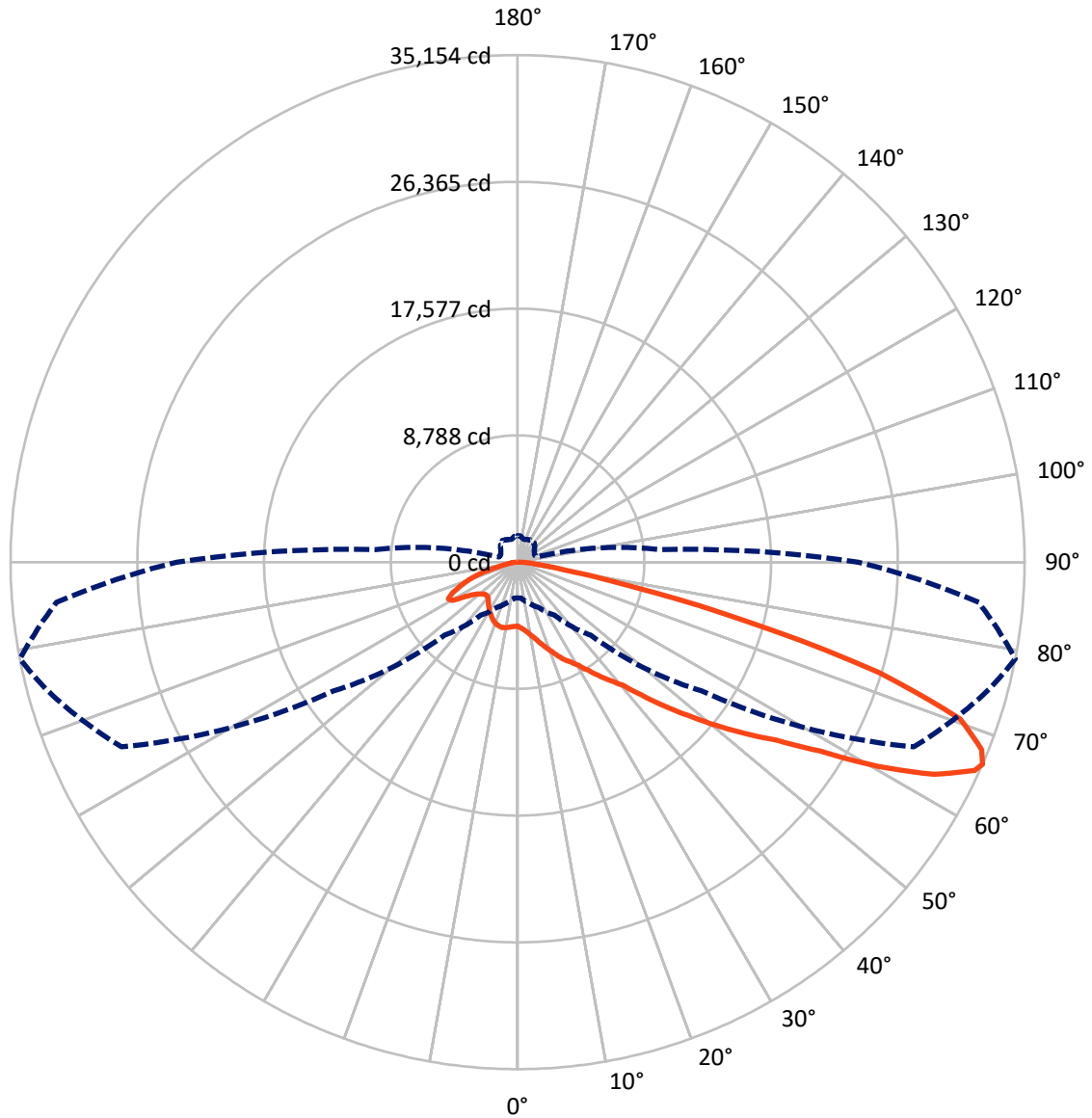
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7104.7	0.0	7104.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	28078.1	0.0	28078.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	35182.8	0.0	35182.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.8	1.2
10°-20°	1348.9	3.8
20°-30°	2315.5	6.6
30°-40°	3577.0	10.2
40°-50°	5729.4	16.3
50°-60°	8554.4	24.3
60°-70°	8789.7	25.0
70°-80°	3896.3	11.1
80°-90°	534.6	1.5
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°	35182.8	100.0
0°-180°	35182.8	100.0

Coefficient of Utilization



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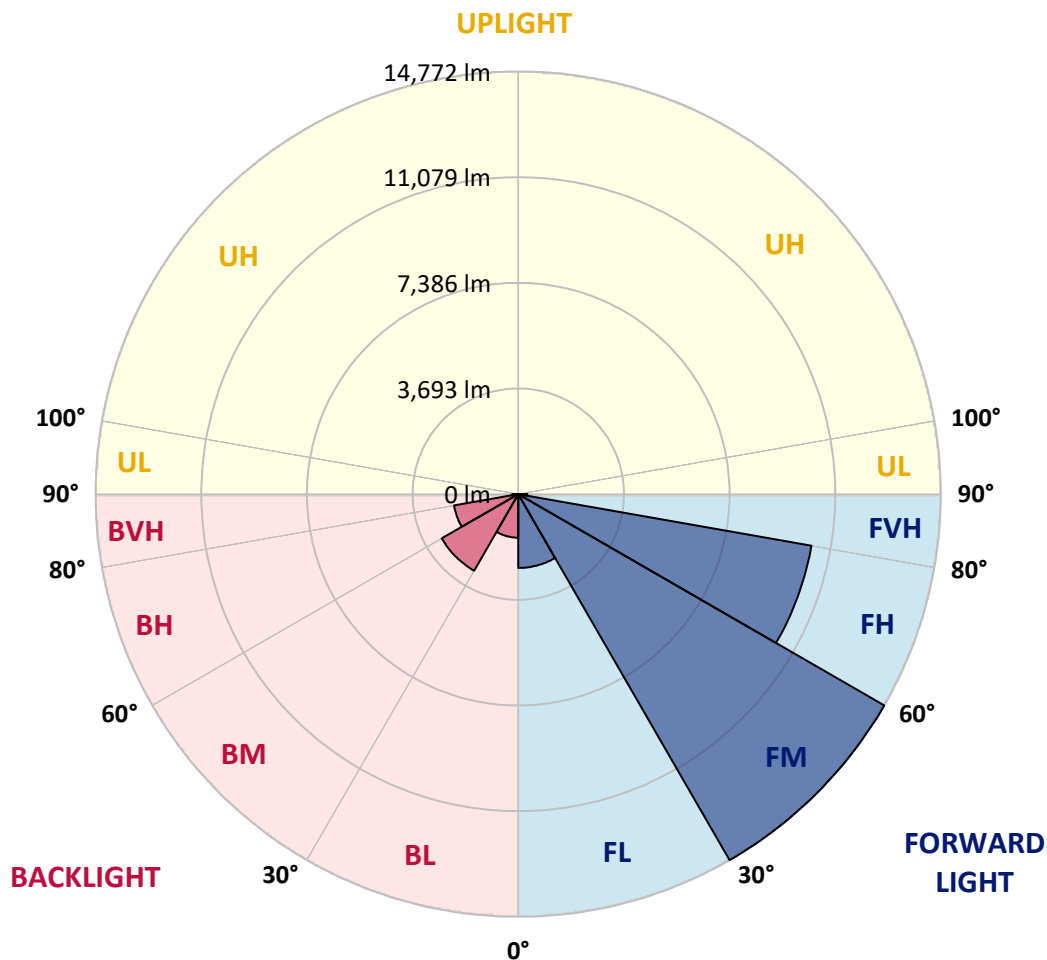
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2579.1	7.3			
FM (30°-60°)	14772.1	42.0			
FH (60°-80°)	10406.3	29.6			G4/12000
FVH (80°-90°)	320.6	0.9			G3/500
BL (0°-30°)	1522.2	4.3	B3/2500		
BM (30°-60°)	3088.8	8.8	B3/5000		
BH (60°-80°)	2279.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	214.0	0.6			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6
2.5°	4725.1	4729.0	4729.0	4713.5	4717.4	4729.0	4686.4	4593.5	4593.5	4578.1	4551.0
5°	5015.4	4996.0	4968.9	4972.8	4957.3	4957.3	4910.9	4821.9	4744.5	4713.5	4632.2
7.5°	5054.0	5073.4	5069.5	5116.0	5139.2	5139.2	5162.4	5088.9	4972.8	4899.3	4818.0
10°	5131.4	5081.1	5077.3	5185.6	5220.5	5301.7	5394.6	5355.9	5259.2	5154.7	5046.3
12.5°	5177.9	5208.8	5208.8	5263.0	5344.3	5464.3	5626.8	5700.3	5549.4	5441.0	5274.6
15°	5247.5	5205.0	5328.8	5375.2	5530.0	5615.2	5847.4	6037.0	5936.4	5804.8	5541.7
17.5°	5278.5	5251.4	5321.1	5406.2	5669.4	5797.1	6079.6	6342.7	6257.6	6172.4	5901.6
20°	5437.2	5433.3	5464.3	5533.9	5723.5	5975.1	6327.2	6691.0	6722.0	6567.2	6199.5
22.5°	5824.2	5773.8	5773.8	5746.8	5828.0	6087.3	6563.3	7066.4	7205.7	7023.8	6536.2
25°	6180.2	6249.8	6207.3	6083.4	6052.5	6187.9	6733.6	7465.0	7650.7	7480.5	6992.9
27.5°	6636.8	6660.0	6733.6	6567.2	6354.3	6396.9	6919.3	7689.4	8072.5	7844.2	7252.1
30°	7294.7	7252.1	7236.7	7050.9	6772.3	6714.2	7132.2	8018.4	8625.9	8304.7	7557.9
32.5°	7739.7	7844.2	7840.4	7584.9	7248.3	7120.6	7395.3	8328.0	9218.0	8920.0	8122.9
35°	8622.1	8730.4	8645.3	8269.9	7875.2	7619.8	7774.6	8730.4	9895.3	9663.1	8602.7
37.5°	9748.2	10003.6	9821.7	9129.0	8571.8	8293.1	8300.9	9167.7	10588.0	10398.3	9117.4
40°	10526.0	10870.5	10618.9	9968.8	9376.7	9113.5	9009.1	9686.3	11416.1	11214.9	9922.3
42.5°	11489.6	11776.0	11644.4	11002.0	10309.3	10084.9	9875.9	10553.1	12681.6	12588.7	10955.6
45°	12542.2	12677.7	12635.1	12228.8	11458.7	11381.3	10920.8	11694.7	14171.5	14210.2	12248.1
47.5°	13521.3	13594.9	13676.1	13382.0	12902.1	12967.9	12124.3	12917.6	15618.8	15874.2	13687.7
50°	13772.9	14024.4	14214.0	14411.4	14515.9	14960.9	13451.7	14419.1	17282.8	17778.2	15289.9
52.5°	13517.5	13498.1	14074.7	14693.9	15738.8	16671.4	15258.9	16284.4	18753.4	19732.5	16756.5
55°	12356.5	12317.8	13246.6	14067.0	16106.4	17623.4	17840.1	18768.9	20529.7	21802.8	18741.8
57.5°	10324.8	10084.9	11098.8	12445.5	15309.2	17727.9	20432.9	22456.9	23261.8	24713.0	21771.9
60°	6938.7	6838.1	7809.4	9415.4	12430.0	16245.7	21984.7	27073.6	27112.3	28745.4	26473.8
62.5°	4272.3	4291.7	4914.7	6118.3	8703.3	12878.9	21315.2	30761.6	30769.3	32406.3	30343.6
65°	2794.0	2805.7	3308.7	3974.4	5437.2	8734.3	17627.3	31051.8	33311.8	34832.7	32116.0
66°	2488.3	2492.2	2925.6	3467.4	4504.5	7147.6	15568.5	30297.2	33884.6	35153.9	32092.8
67.5°	2097.5	2147.8	2496.1	2914.0	3513.8	5135.3	12352.6	28114.6	33590.5	34705.0	31365.3
70°	1640.8	1667.9	1942.7	2368.4	2635.4	2972.1	7341.1	22917.4	30746.1	32553.3	28718.3
72.5°	1315.8	1339.0	1547.9	1923.3	2140.0	1958.2	3997.6	16628.8	24287.3	26214.5	22588.4
75°	1110.7	1114.5	1215.1	1513.1	1760.8	1470.6	2128.4	10673.1	15584.0	16481.8	13838.7
77.5°	897.8	913.3	982.9	1153.2	1416.4	1157.1	1269.3	5978.9	7824.9	7890.7	6396.9
80°	731.4	739.1	781.7	839.8	1079.7	855.2	859.1	2917.9	3355.2	3277.8	2600.6
82.5°	576.6	584.4	634.7	623.0	793.3	611.4	534.0	1404.8	1544.1	1513.1	1195.8
85°	325.1	325.1	499.2	499.2	503.1	387.0	325.1	661.7	816.5	762.4	561.1
87.5°	104.5	108.4	150.9	158.7	251.5	174.1	158.7	247.7	387.0	340.5	201.2
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°	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6	4442.6
2.5°	4535.5	4473.6	4446.5	4357.5	4334.3	4276.2	4249.1	4214.3	4202.7	4152.4	4198.8
5°	4570.3	4551.0	4442.6	4330.4	4245.2	4206.5	4148.5	4071.1	4063.4	3993.7	3986.0
7.5°	4717.4	4651.6	4462.0	4342.0	4171.7	4075.0	3947.3	3908.6	3858.3	3835.0	3885.3
10°	4945.7	4779.3	4496.8	4194.9	3986.0	3869.9	3777.0	3749.9	3753.8	3738.3	3715.1
12.5°	5108.2	4949.6	4438.7	4071.1	3800.2	3688.0	3680.2	3707.3	3749.9	3730.6	3757.6
15°	5340.4	5042.4	4396.2	3866.0	3649.3	3618.3	3614.5	3695.7	3691.9	3691.9	3688.0
17.5°	5557.1	5135.3	4241.4	3688.0	3490.6	3513.8	3540.9	3537.1	3575.8	3591.2	3618.3
20°	5831.9	5243.7	4024.7	3510.0	3370.7	3362.9	3359.0	3362.9	3401.6	3424.8	3405.5
22.5°	6071.8	5266.9	3842.8	3339.7	3227.5	3196.5	3146.2	3196.5	3177.2	3184.9	3208.1
25°	6280.8	5270.8	3583.5	3212.0	3084.3	3014.6	2975.9	2972.1	2937.2	2933.4	2933.4
27.5°	6454.9	5139.2	3355.2	3034.0	2914.0	2848.2	2844.4	2801.8	2712.8	2654.7	2662.5
30°	6590.4	5038.6	3196.5	2879.2	2763.1	2751.5	2716.6	2619.9	2503.8	2430.3	2430.3
32.5°	6830.3	4837.3	2979.8	2720.5	2662.5	2647.0	2565.7	2480.6	2372.2	2302.6	2291.0
35°	7008.3	4651.6	2836.6	2585.1	2558.0	2527.0	2457.4	2364.5	2333.5	2318.1	2329.7
37.5°	7209.6	4442.6	2662.5	2469.0	2496.1	2438.0	2356.8	2314.2	2422.5	2395.4	2407.1
40°	7530.8	4295.6	2492.2	2399.3	2426.4	2360.6	2256.1	2240.7	2376.1	2279.4	2256.1
42.5°	8119.0	4291.7	2387.7	2294.8	2314.2	2263.9	2171.0	2163.3	2217.4	2101.3	2066.5
45°	8850.4	4427.1	2310.3	2217.4	2202.0	2194.2	2163.3	2128.4	2082.0	1931.1	1892.4
47.5°	9725.0	4647.7	2294.8	2101.3	2120.7	2186.5	2147.8	2058.8	1938.8	1842.1	1822.7
50°	10785.3	5104.4	2256.1	2016.2	2051.0	2155.5	2124.6	2000.7	1892.4	1830.4	1818.8
52.5°	11957.9	5681.0	2205.8	1884.6	1962.0	2128.4	2143.9	2027.8	1869.1	1815.0	1807.2
55°	13339.4	6532.3	2147.8	1741.4	1857.5	2101.3	2143.9	1950.4	1838.2	1838.2	1830.4
57.5°	16067.7	8064.8	2027.8	1609.9	1764.7	2051.0	2082.0	1954.3	1842.1	1842.1	1826.6
60°	20069.1	10456.4	1799.5	1509.2	1675.7	1981.4	2035.6	1896.2	1799.5	1822.7	1818.8
62.5°	23199.9	11183.9	1606.0	1412.5	1586.6	1853.7	1973.6	1834.3	1749.2	1834.3	1842.1
65°	23869.4	10448.6	1408.6	1308.0	1462.8	1729.8	1884.6	1745.3	1675.7	1842.1	1849.8
66°	23629.4	9875.9	1339.0	1277.1	1408.6	1667.9	1830.4	1714.4	1637.0	1834.3	1838.2
67.5°	22561.3	9016.8	1261.6	1211.3	1335.1	1578.9	1768.5	1671.8	1575.0	1811.1	1776.3
70°	20239.4	7646.9	1130.0	1095.2	1230.6	1431.9	1625.3	1563.4	1478.3	1667.9	1606.0
72.5°	15587.8	6110.5	990.7	994.6	1110.7	1280.9	1482.2	1439.6	1366.1	1462.8	1424.1
75°	9492.8	3904.7	863.0	870.7	967.5	1137.7	1346.7	1315.8	1226.7	1280.9	1261.6
77.5°	4206.5	1934.9	727.5	743.0	820.4	1002.3	1172.6	1122.3	1029.4	1041.0	1033.3
80°	1633.1	917.2	592.1	611.4	661.7	801.1	971.3	924.9	843.6	828.2	820.4
82.5°	785.6	510.8	456.6	464.4	483.7	638.5	835.9	777.8	669.5	599.8	599.8
85°	394.7	317.3	321.2	294.1	321.2	433.4	565.0	472.1	390.9	348.3	356.0
87.5°	158.7	158.7	158.7	135.4	143.2	205.1	263.2	178.0	162.5	96.7	96.7
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)