

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: P476583

Luminaire Tested: **IFLD-L-SA7B-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476583
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

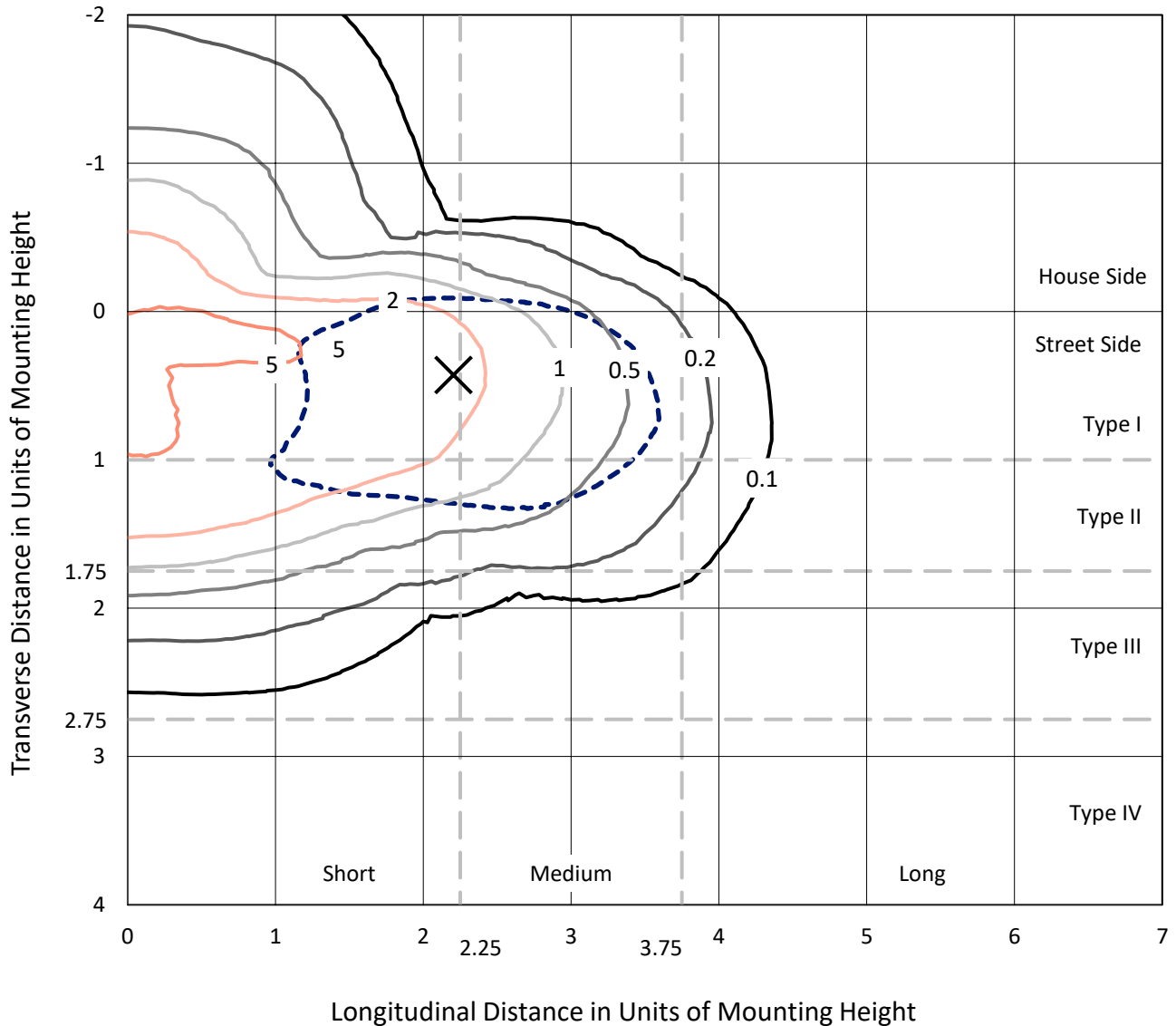
Lumens per Lamp: N/A
Luminaire Lumens: 35081.8 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

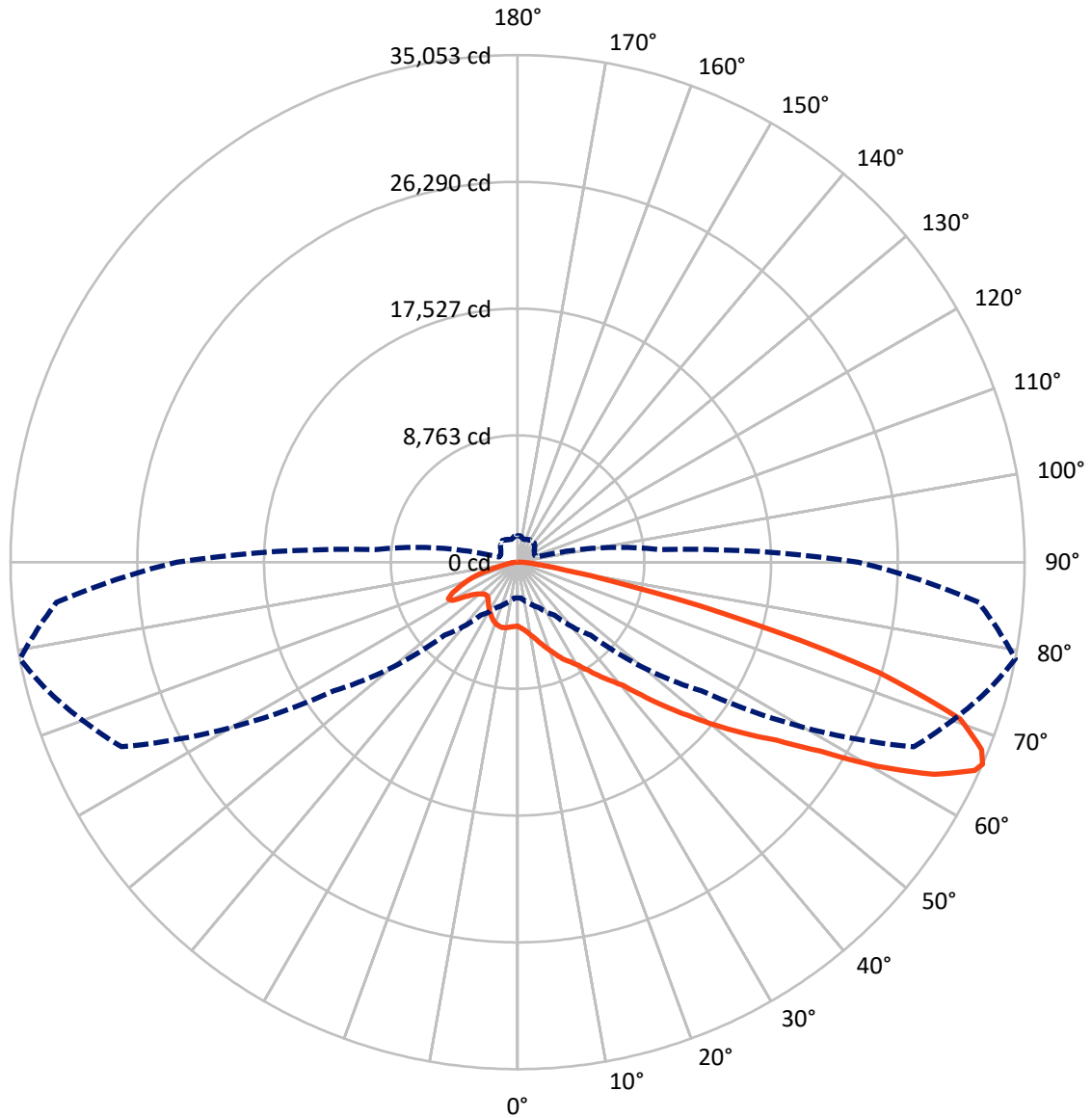
× Max cd
 - - - 1/2 Max cd



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	7084.3	0.0	7084.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	27997.5	0.0	27997.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	35081.8	0.0	35081.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.6	1.2
10°-20°	1345.1	3.8
20°-30°	2308.9	6.6
30°-40°	3566.7	10.2
40°-50°	5713.0	16.3
50°-60°	8529.9	24.3
60°-70°	8764.5	25.0
70°-80°	3885.2	11.1
80°-90°	533.1	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°	35081.8	100.0
0°-180°	35081.8	100.0



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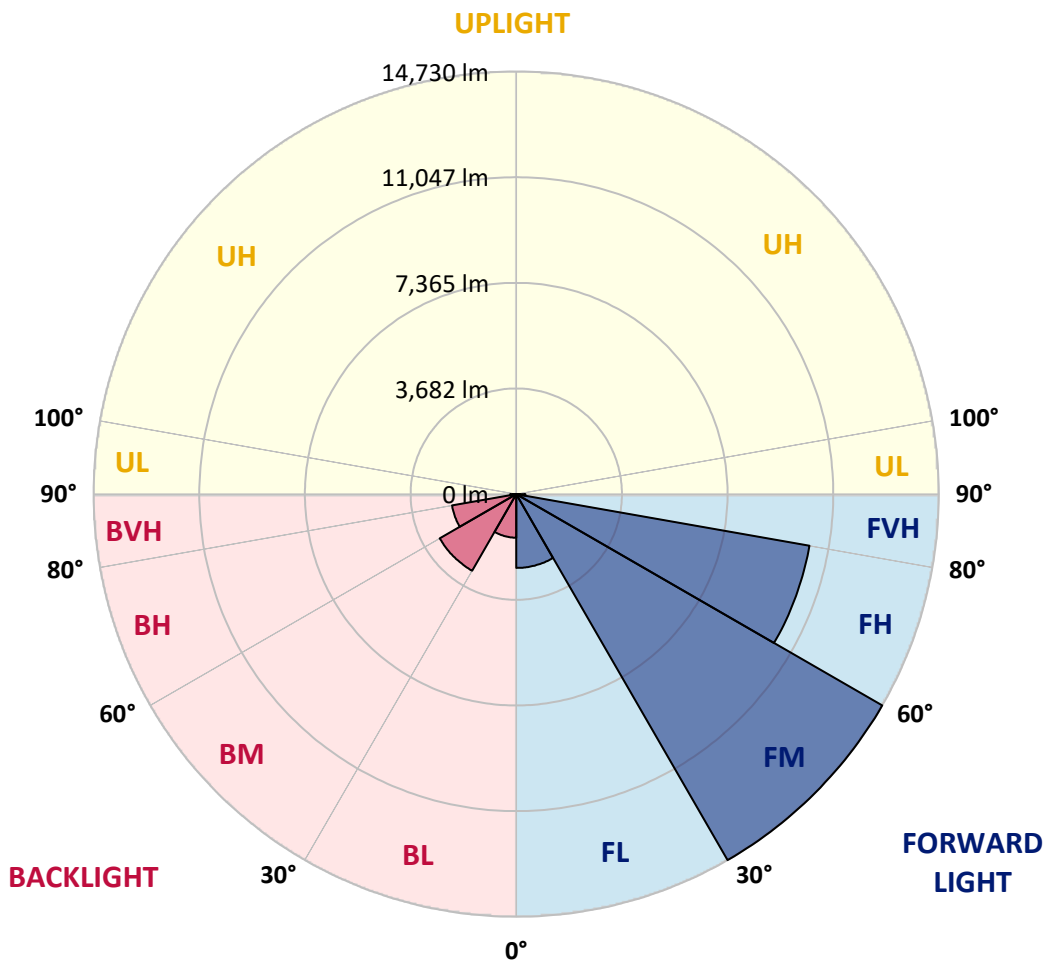
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2571.7	7.3			
FM (30°-60°)	14729.7	42.0			
FH (60°-80°)	10376.4	29.6			G4/12000
FVH (80°-90°)	319.7	0.9			G3/500
BL (0°-30°)	1517.8	4.3	B3/2500		
BM (30°-60°)	3079.9	8.8	B3/5000		
BH (60°-80°)	2273.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	213.4	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°	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9
2.5°	4711.5	4715.4	4715.4	4700.0	4703.8	4715.4	4673.0	4580.4	4580.4	4564.9	4537.9
5°	5001.0	4981.7	4954.7	4958.5	4943.1	4943.1	4896.8	4808.0	4730.8	4700.0	4618.9
7.5°	5039.5	5058.8	5055.0	5101.3	5124.4	5124.4	5147.6	5074.3	4958.5	4885.2	4804.2
10°	5116.7	5066.6	5062.7	5170.7	5205.5	5286.5	5379.1	5340.5	5244.1	5139.9	5031.8
12.5°	5163.0	5193.9	5193.9	5247.9	5329.0	5448.6	5610.6	5684.0	5533.5	5425.4	5259.5
15°	5232.5	5190.0	5313.5	5359.8	5514.2	5599.1	5830.6	6019.7	5919.3	5788.1	5525.7
17.5°	5263.4	5236.3	5305.8	5390.7	5653.1	5780.4	6062.1	6324.5	6239.6	6154.7	5884.6
20°	5421.6	5417.7	5448.6	5518.0	5707.1	5957.9	6309.1	6671.8	6702.7	6548.3	6181.7
22.5°	5807.4	5757.3	5757.3	5730.3	5811.3	6069.8	6544.5	7046.1	7185.0	7003.7	6517.4
25°	6162.4	6231.9	6189.5	6066.0	6035.1	6170.2	6714.2	7443.6	7628.8	7459.0	6972.8
27.5°	6617.8	6640.9	6714.2	6548.3	6336.1	6378.5	6899.5	7667.4	8049.4	7821.7	7231.3
30°	7273.8	7231.3	7215.9	7030.7	6752.8	6695.0	7111.7	7995.4	8601.2	8280.9	7536.2
32.5°	7717.5	7821.7	7817.9	7563.2	7227.5	7100.1	7374.1	8304.1	9191.6	8894.4	8099.5
35°	8597.3	8705.4	8620.5	8246.2	7852.6	7597.9	7752.3	8705.4	9866.9	9635.3	8578.0
37.5°	9720.2	9974.9	9793.5	9102.8	8547.2	8269.3	8277.0	9141.4	10557.6	10368.5	9091.2
40°	10495.8	10839.3	10588.4	9940.2	9349.8	9087.4	8983.2	9658.5	11383.3	11182.7	9893.9
42.5°	11456.7	11742.2	11611.0	10970.5	10279.7	10055.9	9847.6	10522.8	12645.2	12552.6	10924.2
45°	12506.2	12641.3	12598.9	12193.7	11425.8	11348.6	10889.4	11661.2	14130.8	14169.4	12213.0
47.5°	13482.5	13555.8	13636.9	13343.6	12865.1	12930.7	12089.5	12880.5	15574.0	15828.6	13648.4
50°	13733.3	13984.2	14173.2	14370.0	14474.2	14918.0	13413.1	14377.7	17233.2	17727.2	15246.0
52.5°	13478.7	13459.4	14034.3	14651.7	15693.6	16623.5	15215.1	16237.7	18699.6	19675.8	16708.4
55°	12321.0	12282.4	13208.5	14026.6	16060.2	17572.8	17788.9	18715.0	20470.7	21740.3	18688.0
57.5°	10295.2	10055.9	11066.9	12409.8	15265.3	17677.0	20374.3	22392.4	23195.0	24642.1	21709.4
60°	6918.8	6818.4	7787.0	9388.4	12394.3	16199.1	21921.6	26995.9	27034.5	28662.9	26397.8
62.5°	4260.1	4279.4	4900.6	6100.7	8678.4	12842.0	21254.1	30673.3	30681.0	32313.3	30256.6
65°	2786.0	2797.6	3299.2	3962.9	5421.6	8709.2	17576.7	30962.7	33216.2	34732.7	32023.9
66°	2481.2	2485.0	2917.2	3457.5	4491.6	7127.1	15523.8	30210.2	33787.3	35053.0	32000.7
67.5°	2091.4	2141.6	2488.9	2905.6	3503.8	5120.6	12317.2	28033.9	33494.1	34605.4	31275.3
70°	1636.1	1663.1	1937.1	2361.6	2627.8	2963.5	7320.1	22851.6	30657.9	32459.9	28635.9
72.5°	1312.0	1335.1	1543.5	1917.8	2133.9	1952.5	3986.1	16581.1	24217.6	26139.3	22523.6
75°	1107.5	1111.3	1211.7	1508.8	1755.7	1466.3	2122.3	10642.5	15539.2	16434.5	13798.9
77.5°	895.2	910.7	980.1	1149.9	1412.3	1153.8	1265.7	5961.8	7802.4	7868.0	6378.5
80°	729.3	737.0	779.5	837.4	1076.6	852.8	856.6	2909.5	3345.5	3268.4	2593.1
82.5°	575.0	582.7	632.8	621.3	791.0	609.7	532.5	1400.7	1539.6	1508.8	1192.4
85°	324.1	324.1	497.8	497.8	501.6	385.9	324.1	659.8	814.2	760.2	559.5
87.5°	104.2	108.0	150.5	158.2	250.8	173.6	158.2	247.0	385.9	339.6	200.7
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°	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9	4429.9
2.5°	4522.5	4460.7	4433.7	4345.0	4321.8	4263.9	4236.9	4202.2	4190.6	4140.5	4186.8
5°	4557.2	4537.9	4429.9	4318.0	4233.1	4194.5	4136.6	4059.4	4051.7	3982.2	3974.5
7.5°	4703.8	4638.2	4449.2	4329.5	4159.7	4063.3	3935.9	3897.3	3847.2	3824.0	3874.2
10°	4931.5	4765.6	4483.9	4182.9	3974.5	3858.8	3766.2	3739.1	3743.0	3727.6	3704.4
12.5°	5093.6	4935.4	4426.0	4059.4	3789.3	3677.4	3669.7	3696.7	3739.1	3719.8	3746.9
15°	5325.1	5028.0	4383.6	3854.9	3638.8	3607.9	3604.1	3685.1	3681.3	3681.3	3677.4
17.5°	5541.2	5120.6	4229.2	3677.4	3480.6	3503.8	3530.8	3526.9	3565.5	3580.9	3607.9
20°	5815.2	5228.6	4013.1	3499.9	3361.0	3353.3	3349.4	3353.3	3391.9	3415.0	3395.7
22.5°	6054.4	5251.8	3831.8	3330.1	3218.2	3187.3	3137.2	3187.3	3168.0	3175.8	3198.9
25°	6262.8	5255.6	3573.2	3202.8	3075.4	3006.0	2967.4	2963.5	2928.8	2924.9	2924.9
27.5°	6436.4	5124.4	3345.5	3025.3	2905.6	2840.0	2836.2	2793.7	2705.0	2647.1	2654.8
30°	6571.5	5024.1	3187.3	2870.9	2755.2	2743.6	2708.9	2612.4	2496.6	2423.3	2423.3
32.5°	6810.7	4823.5	2971.2	2712.7	2654.8	2639.4	2558.4	2473.5	2365.4	2296.0	2284.4
35°	6988.2	4638.2	2828.5	2577.7	2550.6	2519.8	2450.3	2357.7	2326.8	2311.4	2323.0
37.5°	7188.9	4429.9	2654.8	2461.9	2488.9	2431.0	2350.0	2307.5	2415.6	2388.6	2400.1
40°	7509.2	4283.2	2485.0	2392.4	2419.4	2353.8	2249.7	2234.2	2369.3	2272.8	2249.7
42.5°	8095.7	4279.4	2380.9	2288.2	2307.5	2257.4	2164.8	2157.0	2211.1	2095.3	2060.6
45°	8825.0	4414.4	2303.7	2211.1	2195.6	2187.9	2157.0	2122.3	2076.0	1925.5	1886.9
47.5°	9697.1	4634.4	2288.2	2095.3	2114.6	2180.2	2141.6	2052.9	1933.2	1836.8	1817.5
50°	10754.4	5089.7	2249.7	2010.4	2045.1	2149.3	2118.5	1995.0	1886.9	1825.2	1813.6
52.5°	11923.6	5664.7	2199.5	1879.2	1956.4	2122.3	2137.8	2022.0	1863.8	1809.8	1802.0
55°	13301.2	6513.6	2141.6	1736.4	1852.2	2095.3	2137.8	1944.8	1832.9	1832.9	1825.2
57.5°	16021.6	8041.7	2022.0	1605.2	1759.6	2045.1	2076.0	1948.7	1836.8	1836.8	1821.3
60°	20011.5	10426.4	1794.3	1504.9	1670.8	1975.7	2029.7	1890.8	1794.3	1817.5	1813.6
62.5°	23133.3	11151.8	1601.4	1408.4	1582.1	1848.3	1968.0	1829.1	1744.2	1829.1	1836.8
65°	23800.8	10418.7	1404.6	1304.3	1458.6	1724.9	1879.2	1740.3	1670.8	1836.8	1844.5
66°	23561.6	9847.6	1335.1	1273.4	1404.6	1663.1	1825.2	1709.4	1632.3	1829.1	1832.9
67.5°	22496.6	8990.9	1258.0	1207.8	1331.3	1574.4	1763.5	1667.0	1570.5	1805.9	1771.2
70°	20181.3	7624.9	1126.8	1092.0	1227.1	1427.7	1620.7	1558.9	1474.0	1663.1	1601.4
72.5°	15543.1	6093.0	987.8	991.7	1107.5	1277.3	1477.9	1435.5	1362.1	1458.6	1420.0
75°	9465.5	3893.5	860.5	868.2	964.7	1134.5	1342.8	1312.0	1223.2	1277.3	1258.0
77.5°	4194.5	1929.4	725.4	740.9	818.1	999.4	1169.2	1119.0	1026.4	1038.0	1030.3
80°	1628.4	914.5	590.4	609.7	659.8	798.8	968.5	922.2	841.2	825.8	818.1
82.5°	783.3	509.4	455.3	463.1	482.3	636.7	833.5	775.6	667.6	598.1	598.1
85°	393.6	316.4	320.3	293.3	320.3	432.2	563.4	470.8	389.7	347.3	355.0
87.5°	158.2	158.2	158.2	135.1	142.8	204.5	262.4	177.5	162.1	96.5	96.5
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)