

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: P476472

Luminaire Tested: **IFLD-L-SA8C-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476472
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

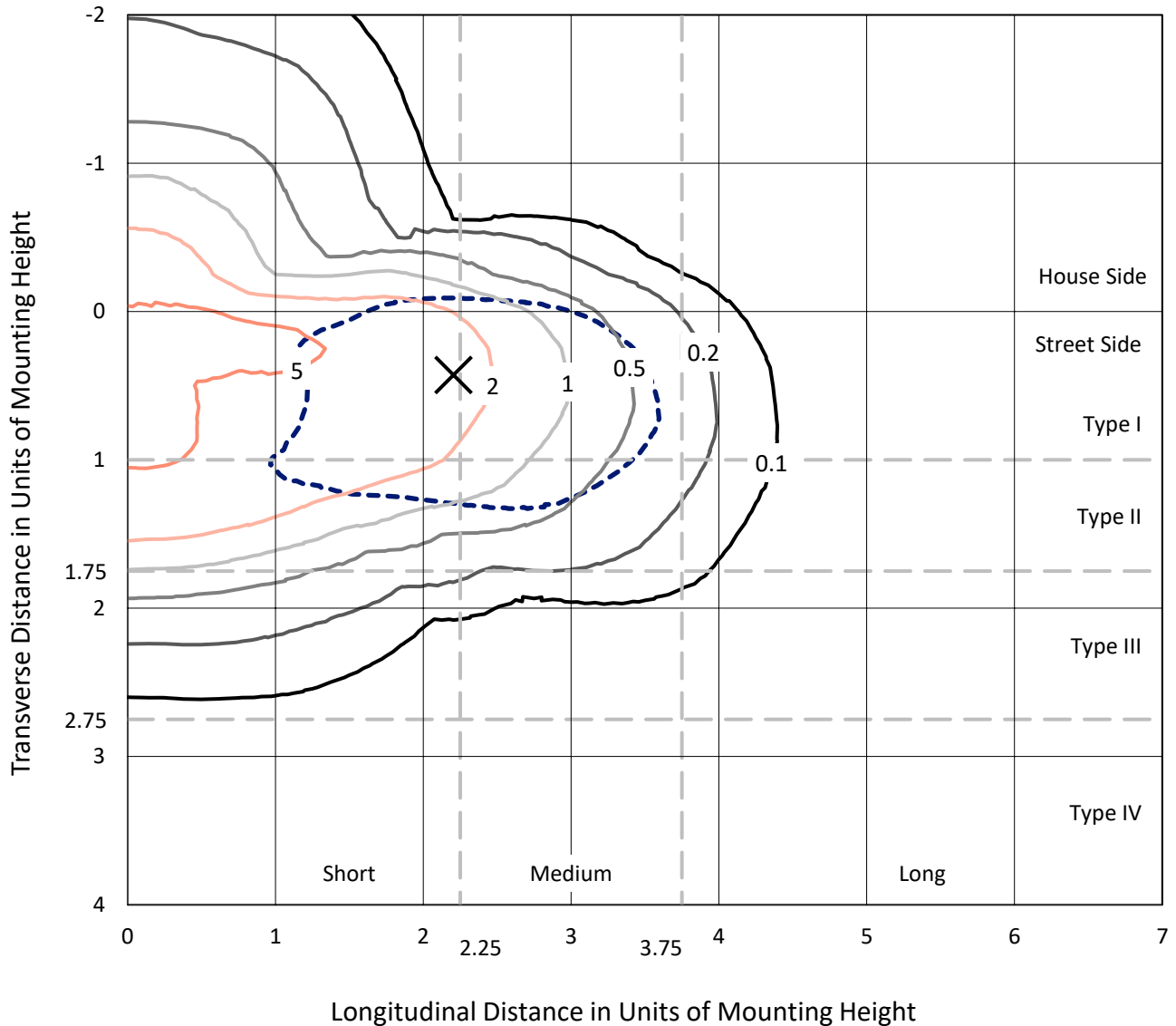
Lumens per Lamp: N/A
Luminaire Lumens: 37274.1 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 420.3
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

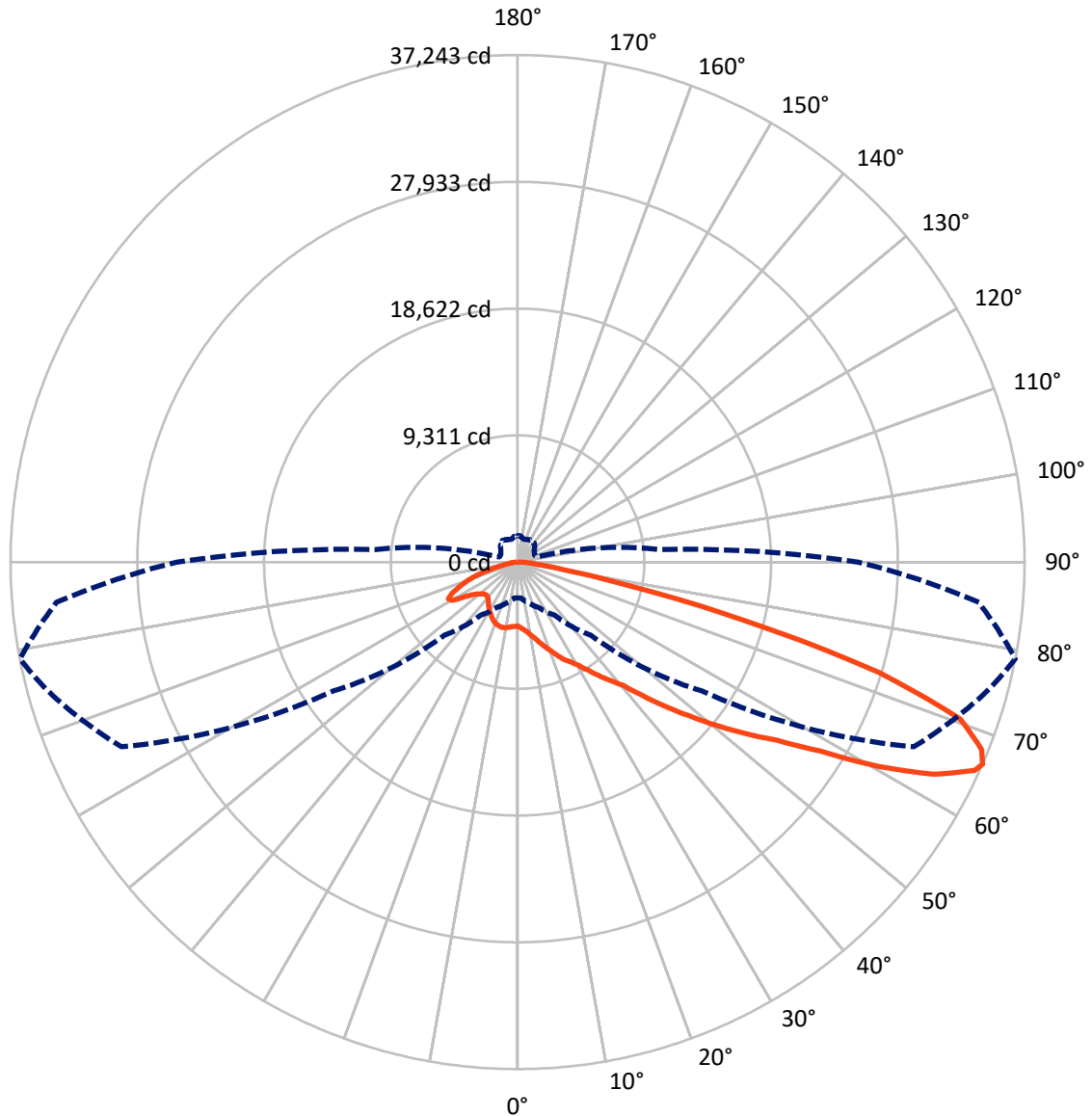
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	7527.0	0.0	7527.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	29747.1	0.0	29747.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	37274.1	0.0	37274.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.8	1.2
10°-20°	1429.1	3.8
20°-30°	2453.1	6.6
30°-40°	3789.6	10.2
40°-50°	6070.0	16.3
50°-60°	9062.9	24.3
60°-70°	9312.2	25.0
70°-80°	4128.0	11.1
80°-90°	566.4	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°	37274.1	100.0
0°-180°	37274.1	100.0

Coefficient of Utilization



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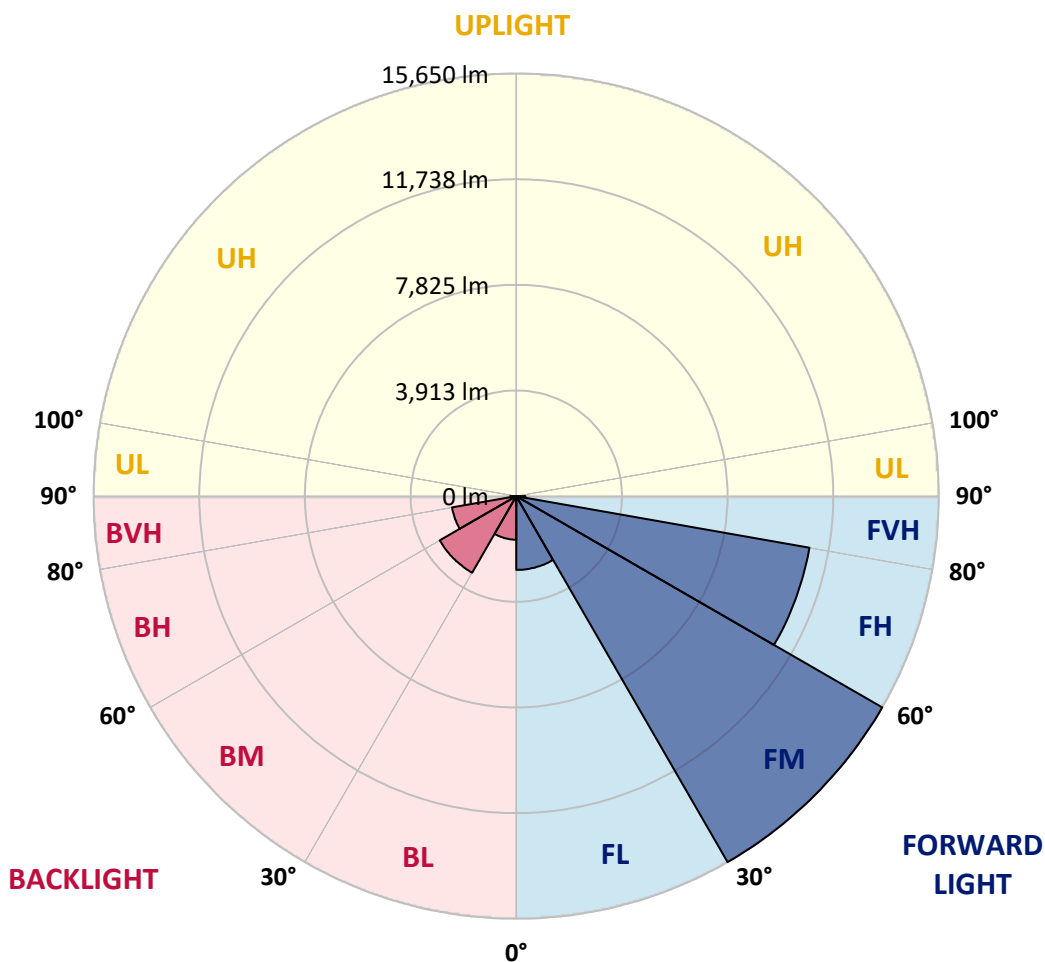
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2732.4	7.3			
FM (30°-60°)	15650.1	42.0			
FH (60°-80°)	11024.8	29.6			G4/12000
FVH (80°-90°)	339.7	0.9			G3/500
BL (0°-30°)	1612.6	4.3	B3/2500		
BM (30°-60°)	3272.4	8.8	B3/5000		
BH (60°-80°)	2415.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	226.7	0.6			G3/500
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°	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7
2.5°	5006.0	5010.1	5010.1	4993.7	4997.8	5010.1	4965.0	4866.6	4866.6	4850.2	4821.5
5°	5313.5	5293.0	5264.3	5268.4	5252.0	5252.0	5202.8	5108.5	5026.5	4993.7	4907.6
7.5°	5354.5	5375.0	5370.9	5420.1	5444.7	5444.7	5469.3	5391.4	5268.4	5190.5	5104.4
10°	5436.5	5383.2	5379.1	5493.9	5530.8	5616.9	5715.3	5674.3	5571.8	5461.1	5346.3
12.5°	5485.7	5518.5	5518.5	5575.9	5662.0	5789.0	5961.2	6039.1	5879.2	5764.5	5588.2
15°	5559.5	5514.4	5645.6	5694.8	5858.7	5948.9	6194.9	6395.8	6289.2	6149.8	5871.0
17.5°	5592.3	5563.6	5637.4	5727.6	6006.3	6141.6	6440.9	6719.7	6629.5	6539.3	6252.3
20°	5760.4	5756.3	5789.0	5862.8	6063.7	6330.2	6703.3	7088.7	7121.5	6957.5	6568.0
22.5°	6170.3	6117.0	6117.0	6088.3	6174.4	6449.1	6953.4	7486.4	7634.0	7441.3	6924.7
25°	6547.5	6621.3	6576.2	6445.0	6412.2	6555.7	7133.8	7908.7	8105.5	7925.1	7408.5
27.5°	7031.3	7055.9	7133.8	6957.5	6732.0	6777.1	7330.6	8146.5	8552.4	8310.5	7683.2
30°	7728.3	7683.2	7666.8	7470.0	7174.8	7113.3	7556.1	8495.0	9138.7	8798.4	8007.1
32.5°	8199.8	8310.5	8306.4	8035.8	7679.1	7543.8	7834.9	8823.0	9765.9	9450.3	8605.7
35°	9134.6	9249.4	9159.2	8761.5	8343.3	8072.7	8236.7	9249.4	10483.4	10237.4	9114.1
37.5°	10327.6	10598.2	10405.5	9671.6	9081.3	8786.1	8794.3	9712.6	11217.3	11016.4	9659.3
40°	11151.7	11516.6	11250.1	10561.3	9934.0	9655.2	9544.6	10262.0	12094.7	11881.5	10512.1
42.5°	12172.6	12476.0	12336.6	11656.0	10922.1	10684.3	10462.9	11180.4	13435.4	13337.0	11606.8
45°	13287.8	13431.3	13386.2	12955.7	12139.8	12057.8	11569.9	12389.9	15013.8	15054.8	12976.2
47.5°	14325.0	14402.9	14489.0	14177.4	13669.0	13738.7	12845.0	13685.4	16547.2	16817.8	14501.3
50°	14591.5	14858.0	15058.9	15268.0	15378.7	15850.2	14251.2	15276.2	18310.1	18834.9	16198.7
52.5°	14320.9	14300.4	14911.3	15567.3	16674.3	17662.3	16165.9	17252.4	19868.1	20905.4	17752.5
55°	13091.0	13050.0	14033.9	14903.1	17063.8	18670.9	18900.5	19884.5	21749.9	23098.8	19855.8
57.5°	10938.5	10684.3	11758.5	13185.3	16219.2	18781.6	21647.4	23791.7	24644.5	26181.9	23066.0
60°	7351.1	7244.5	8273.6	9975.0	13168.9	17211.4	23291.5	28682.9	28723.9	30454.0	28047.4
62.5°	4526.3	4546.8	5206.9	6481.9	9220.7	13644.4	22582.2	32590.1	32598.3	34332.5	32147.3
65°	2960.1	2972.4	3505.4	4210.6	5760.4	9253.5	18675.0	32897.5	35291.9	36903.1	34025.0
66°	2636.2	2640.3	3099.5	3673.5	4772.3	7572.5	16493.9	32098.1	35898.7	37243.4	34000.4
67.5°	2222.1	2275.4	2644.4	3087.2	3722.7	5440.6	13086.9	29785.7	35587.1	36767.8	33229.6
70°	1738.4	1767.1	2058.1	2509.1	2792.0	3148.7	7777.5	24279.6	32573.7	34488.3	30425.3
72.5°	1394.0	1418.6	1640.0	2037.6	2267.2	2074.5	4235.2	17617.2	25730.9	27772.7	23931.1
75°	1176.7	1180.8	1287.4	1603.1	1865.5	1558.0	2254.9	11307.5	16510.3	17461.4	14661.2
77.5°	951.2	967.6	1041.4	1221.8	1500.6	1225.9	1344.8	6334.3	8290.0	8359.7	6777.1
80°	774.9	783.1	828.2	889.7	1143.9	906.1	910.2	3091.3	3554.6	3472.6	2755.1
82.5°	610.9	619.1	672.4	660.1	840.5	647.8	565.8	1488.3	1635.9	1603.1	1266.9
85°	344.4	344.4	528.9	528.9	533.0	410.0	344.4	701.1	865.1	807.7	594.5
87.5°	110.7	114.8	159.9	168.1	266.5	184.5	168.1	262.4	410.0	360.8	213.2
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°	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7	4706.7
2.5°	4805.1	4739.5	4710.8	4616.5	4591.9	4530.4	4501.7	4464.8	4452.5	4399.2	4448.4
5°	4842.0	4821.5	4706.7	4587.8	4497.6	4456.6	4395.1	4313.1	4304.9	4231.1	4222.9
7.5°	4997.8	4928.1	4727.2	4600.1	4419.7	4317.2	4181.9	4140.9	4087.6	4063.0	4116.3
10°	5239.7	5063.4	4764.1	4444.3	4222.9	4099.9	4001.5	3972.8	3976.9	3960.5	3935.9
12.5°	5411.9	5243.8	4702.6	4313.1	4026.1	3907.2	3899.0	3927.7	3972.8	3952.3	3981.0
15°	5657.9	5342.2	4657.5	4095.8	3866.2	3833.4	3829.3	3915.4	3911.3	3911.3	3907.2
17.5°	5887.4	5440.6	4493.5	3907.2	3698.1	3722.7	3751.4	3747.3	3788.3	3804.7	3833.4
20°	6178.5	5555.4	4263.9	3718.6	3571.0	3562.8	3558.7	3562.8	3603.8	3628.4	3607.9
22.5°	6432.7	5580.0	4071.2	3538.2	3419.3	3386.5	3333.2	3386.5	3366.0	3374.2	3398.8
25°	6654.1	5584.1	3796.5	3402.9	3267.6	3193.8	3152.8	3148.7	3111.8	3107.7	3107.7
27.5°	6838.6	5444.7	3554.6	3214.3	3087.2	3017.5	3013.4	2968.3	2874.0	2812.5	2820.7
30°	6982.1	5338.1	3386.5	3050.3	2927.3	2915.0	2878.1	2775.6	2652.6	2574.7	2574.7
32.5°	7236.3	5124.9	3156.9	2882.2	2820.7	2804.3	2718.2	2628.0	2513.2	2439.4	2427.1
35°	7424.9	4928.1	3005.2	2738.7	2710.0	2677.2	2603.4	2505.0	2472.2	2455.8	2468.1
37.5°	7638.1	4706.7	2820.7	2615.7	2644.4	2582.9	2496.8	2451.7	2566.5	2537.8	2550.1
40°	7978.4	4550.9	2640.3	2541.9	2570.6	2500.9	2390.2	2373.8	2517.3	2414.8	2390.2
42.5°	8601.6	4546.8	2529.6	2431.2	2451.7	2398.4	2300.0	2291.8	2349.2	2226.2	2189.3
45°	9376.5	4690.3	2447.6	2349.2	2332.8	2324.6	2291.8	2254.9	2205.7	2045.8	2004.8
47.5°	10303.0	4924.0	2431.2	2226.2	2246.7	2316.4	2275.4	2181.1	2054.0	1951.5	1931.0
50°	11426.4	5407.8	2390.2	2136.0	2172.9	2283.6	2250.8	2119.6	2004.8	1939.2	1927.0
52.5°	12668.7	6018.6	2336.9	1996.6	2078.6	2254.9	2271.3	2148.3	1980.2	1922.9	1914.7
55°	14132.3	6920.6	2275.4	1845.0	1967.9	2226.2	2271.3	2066.3	1947.4	1947.4	1939.2
57.5°	17022.8	8544.2	2148.3	1705.6	1869.6	2172.9	2205.7	2070.4	1951.5	1951.5	1935.1
60°	21262.0	11077.9	1906.5	1599.0	1775.3	2099.1	2156.5	2008.9	1906.5	1931.0	1927.0
62.5°	24578.9	11848.7	1701.5	1496.5	1681.0	1963.8	2090.9	1943.3	1853.2	1943.3	1951.5
65°	25288.1	11069.7	1492.4	1385.8	1549.8	1832.7	1996.6	1849.1	1775.3	1951.5	1959.7
66°	25034.0	10462.9	1418.6	1353.0	1492.4	1767.1	1939.2	1816.3	1734.3	1943.3	1947.4
67.5°	23902.4	9552.8	1336.6	1283.3	1414.5	1672.8	1873.7	1771.2	1668.7	1918.8	1881.9
70°	21442.4	8101.4	1197.2	1160.3	1303.8	1517.0	1722.0	1656.4	1566.2	1767.1	1701.5
72.5°	16514.4	6473.7	1049.6	1053.7	1176.7	1357.1	1570.3	1525.2	1447.3	1549.8	1508.8
75°	10057.0	4136.8	914.3	922.5	1025.0	1205.4	1426.8	1394.0	1299.7	1357.1	1336.6
77.5°	4456.6	2049.9	770.8	787.2	869.2	1061.9	1242.3	1189.0	1090.6	1102.9	1094.7
80°	1730.2	971.7	627.3	647.8	701.1	848.7	1029.1	979.9	893.8	877.4	869.2
82.5°	832.3	541.2	483.8	492.0	512.5	676.5	885.6	824.1	709.3	635.5	635.5
85°	418.2	336.2	340.3	311.6	340.3	459.2	598.6	500.2	414.1	369.0	377.2
87.5°	168.1	168.1	168.1	143.5	151.7	217.3	278.8	188.6	172.2	102.5	102.5
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)