

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: P476498

Luminaire Tested: **IFLD-S-SA6E-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476498
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

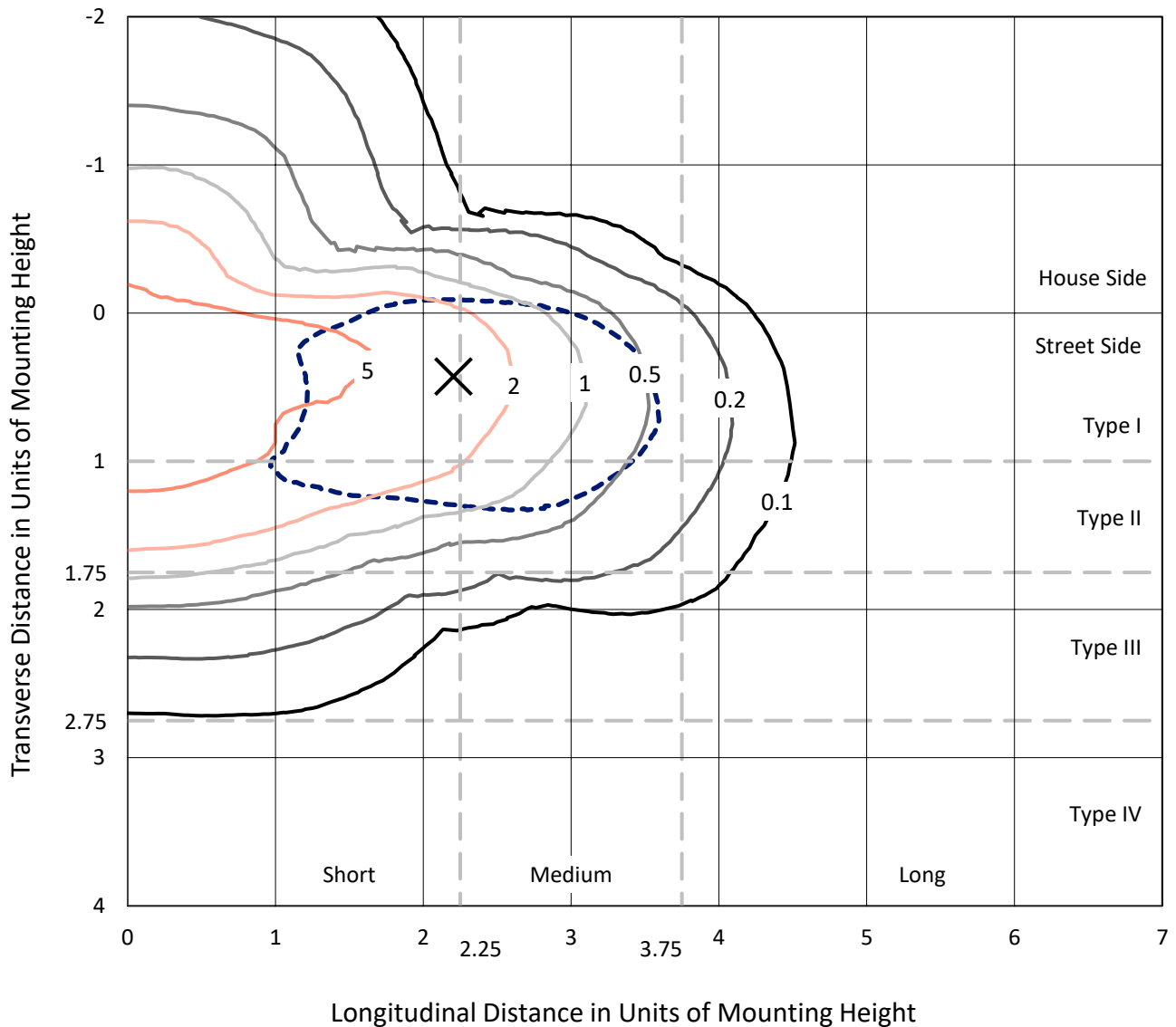
Lumens per Lamp: N/A
Luminaire Lumens: 44197.7 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

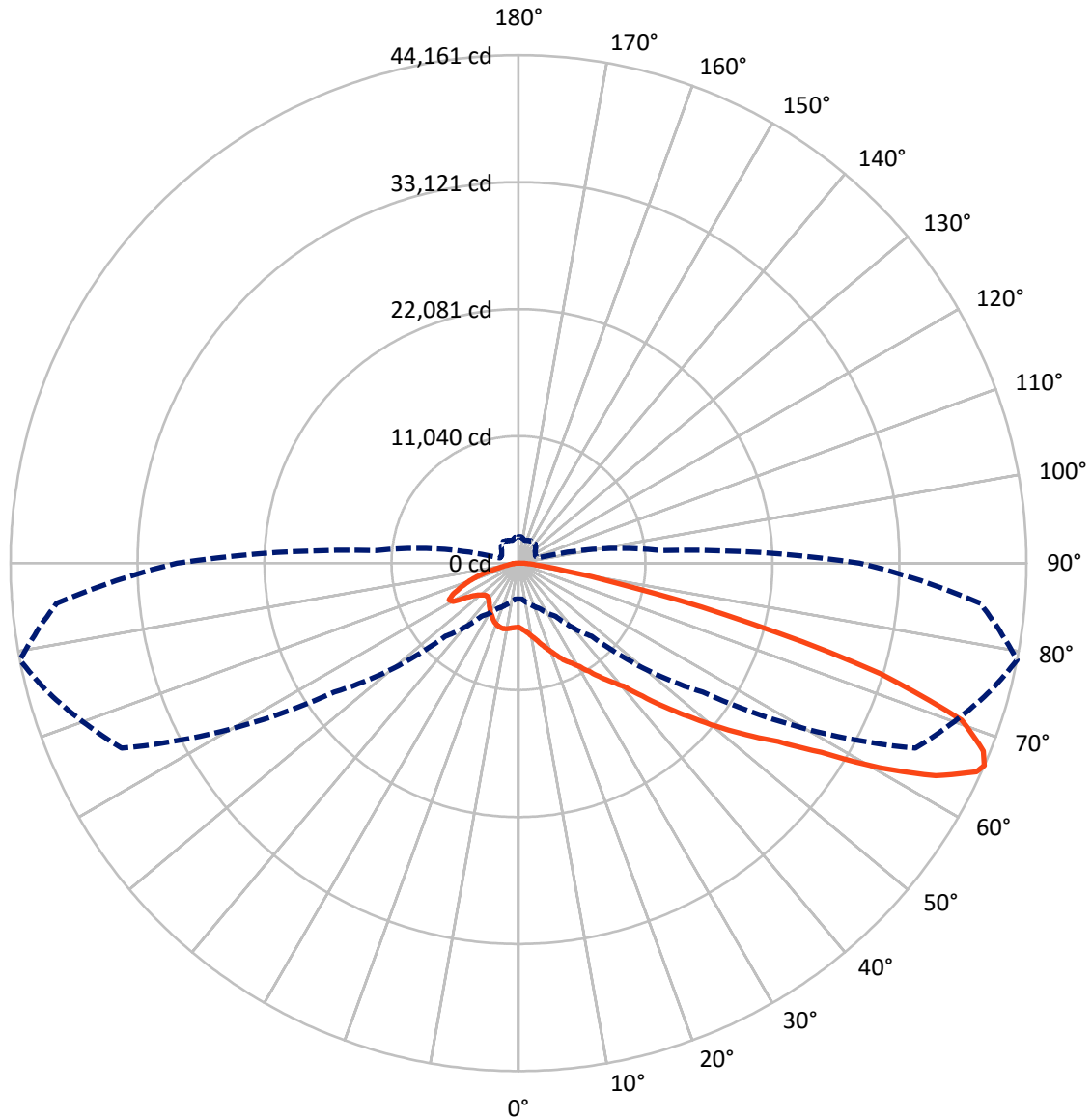
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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	8925.1	0.0	8925.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	35272.6	0.0	35272.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	44197.7	0.0	44197.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.8	1.2
10°-20°	1694.6	3.8
20°-30°	2908.8	6.6
30°-40°	4493.5	10.2
40°-50°	7197.5	16.3
50°-60°	10746.4	24.3
60°-70°	11041.9	25.0
70°-80°	4894.7	11.1
80°-90°	671.6	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°	44197.7	100.0
0°-180°	44197.7	100.0



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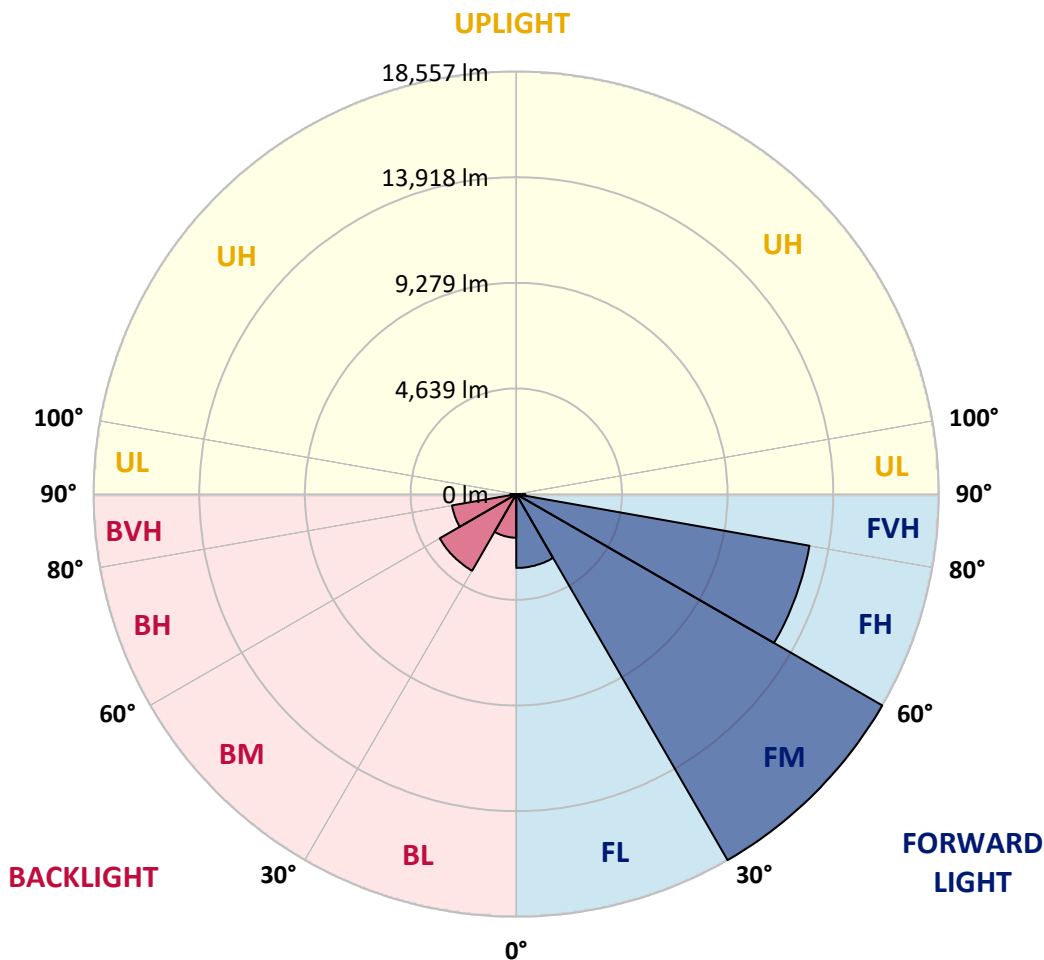
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3240.0	7.3			
FM (30°-60°)	18557.1	42.0			
FH (60°-80°)	13072.7	29.6			G5
FVH (80°-90°)	402.8	0.9			G3/500
BL (0°-30°)	1912.2	4.3	B3/2500		
BM (30°-60°)	3880.2	8.8	B3/5000		
BH (60°-80°)	2863.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	268.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9
2.5°	5935.8	5940.7	5940.7	5921.2	5926.1	5940.7	5887.2	5770.5	5770.5	5751.1	5717.1
5°	6300.4	6276.1	6242.1	6247.0	6227.5	6227.5	6169.2	6057.4	5960.1	5921.2	5819.2
7.5°	6349.1	6373.4	6368.5	6426.8	6456.0	6456.0	6485.2	6392.8	6247.0	6154.6	6052.5
10°	6446.3	6383.1	6378.2	6514.3	6558.1	6660.2	6776.9	6728.2	6606.7	6475.5	6339.3
12.5°	6504.6	6543.5	6543.5	6611.6	6713.7	6864.4	7068.5	7160.9	6971.3	6835.2	6626.2
15°	6592.1	6538.7	6694.2	6752.6	6947.0	7054.0	7345.7	7583.9	7457.5	7292.2	6961.6
17.5°	6631.0	6597.0	6684.5	6791.4	7122.0	7282.5	7637.3	7967.9	7861.0	7754.0	7413.7
20°	6830.3	6825.5	6864.4	6951.9	7190.1	7506.1	7948.5	8405.4	8444.3	8249.9	7788.0
22.5°	7316.5	7253.3	7253.3	7219.3	7321.3	7647.1	8245.0	8877.0	9052.0	8823.5	8211.0
25°	7763.7	7851.2	7797.8	7642.2	7603.3	7773.5	8458.9	9377.7	9611.1	9397.2	8784.6
27.5°	8337.4	8366.6	8458.9	8249.9	7982.5	8036.0	8692.3	9659.7	10141.0	9854.2	9110.4
30°	9163.8	9110.4	9090.9	8857.6	8507.5	8434.6	8959.7	10072.9	10836.2	10432.7	9494.4
32.5°	9722.9	9854.2	9849.3	9528.4	9105.5	8945.1	9290.2	10461.8	11580.0	11205.6	10204.2
35°	10831.3	10967.4	10860.5	10388.9	9893.1	9572.2	9766.7	10967.4	12430.7	12139.0	10807.0
37.5°	12246.0	12566.8	12338.4	11468.2	10768.1	10418.1	10427.8	11516.8	13300.9	13062.7	11453.6
40°	13223.1	13655.8	13339.8	12523.1	11779.3	11448.7	11317.5	12168.2	14341.3	14088.5	12464.8
42.5°	14433.6	14793.4	14628.1	13821.1	12950.9	12668.9	12406.4	13257.2	15931.0	15814.3	13762.8
45°	15756.0	15926.1	15872.6	15362.2	14394.8	14297.5	13719.0	14691.3	17802.6	17851.2	15386.5
47.5°	16985.9	17078.3	17180.4	16810.9	16208.1	16290.7	15230.9	16227.5	19620.8	19941.7	17195.0
50°	17301.9	17617.9	17856.1	18104.0	18235.3	18794.4	16898.4	18113.8	21711.2	22333.5	19207.6
52.5°	16981.0	16956.7	17681.1	18458.9	19771.5	20943.1	19168.7	20457.0	23558.6	24788.5	21050.1
55°	15522.6	15474.0	16640.7	17671.4	20233.4	22139.0	22411.3	23578.0	25790.0	27389.4	23544.0
57.5°	12970.4	12668.9	13942.6	15634.4	19231.9	22270.3	25668.5	28211.0	29222.2	31045.2	27350.5
60°	8716.6	8590.2	9810.4	11827.9	15615.0	20408.4	27617.9	34010.7	34059.3	36110.9	33257.2
62.5°	5367.0	5391.3	6174.0	7686.0	10933.4	16178.9	26776.9	38643.7	38653.4	40709.8	38118.6
65°	3510.0	3524.6	4156.5	4992.7	6830.3	10972.3	22143.9	39008.3	41847.4	43757.9	40345.2
66°	3125.9	3130.8	3675.3	4355.9	5658.7	8979.1	19557.6	38060.3	42566.9	44161.4	40316.0
67.5°	2634.9	2698.1	3135.6	3660.7	4414.2	6451.1	15517.8	35318.4	42197.4	43597.5	39402.1
70°	2061.3	2095.3	2440.4	2975.2	3310.6	3733.6	9222.2	28789.5	38624.2	40894.5	36076.8
72.5°	1652.9	1682.1	1944.6	2416.1	2688.4	2459.9	5021.9	20889.7	30510.5	32931.5	28376.3
75°	1395.2	1400.1	1526.5	1900.8	2212.0	1847.4	2673.8	13407.9	19577.1	20704.9	17384.5
77.5°	1127.9	1147.3	1234.8	1448.7	1779.3	1453.6	1594.6	7510.9	9829.9	9912.5	8036.0
80°	918.8	928.5	982.0	1054.9	1356.3	1074.4	1079.2	3665.5	4214.9	4117.6	3266.9
82.5°	724.4	734.1	797.3	782.7	996.6	768.1	670.9	1764.7	1939.7	1900.8	1502.2
85°	408.4	408.4	627.1	627.1	632.0	486.1	408.4	831.3	1025.8	957.7	704.9
87.5°	131.3	136.1	189.6	199.3	316.0	218.8	199.3	311.1	486.1	427.8	252.8
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°	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9
2.5°	5697.6	5619.8	5585.8	5474.0	5444.8	5371.9	5337.9	5294.1	5279.5	5216.3	5274.7
5°	5741.4	5717.1	5580.9	5440.0	5333.0	5284.4	5211.5	5114.2	5104.5	5017.0	5007.3
7.5°	5926.1	5843.5	5605.3	5454.5	5240.6	5119.1	4958.7	4910.1	4846.9	4817.7	4880.9
10°	6212.9	6003.9	5649.0	5269.8	5007.3	4861.5	4744.8	4710.7	4715.6	4696.2	4667.0
12.5°	6417.1	6217.8	5576.1	5114.2	4773.9	4633.0	4623.2	4657.3	4710.7	4686.4	4720.5
15°	6708.8	6334.5	5522.6	4856.6	4584.3	4545.5	4540.6	4642.7	4637.8	4637.8	4633.0
17.5°	6981.0	6451.1	5328.1	4633.0	4385.0	4414.2	4448.2	4443.4	4492.0	4511.4	4545.5
20°	7326.2	6587.3	5055.9	4409.3	4234.3	4224.6	4219.7	4224.6	4273.2	4302.4	4278.1
22.5°	7627.6	6616.4	4827.4	4195.4	4054.4	4015.6	3952.4	4015.6	3991.3	4001.0	4030.1
25°	7890.1	6621.3	4501.7	4035.0	3874.6	3787.1	3738.5	3733.6	3689.8	3685.0	3685.0
27.5°	8108.9	6456.0	4214.9	3811.4	3660.7	3578.0	3573.2	3519.7	3407.9	3335.0	3344.7
30°	8279.1	6329.6	4015.6	3616.9	3471.1	3456.5	3412.7	3291.2	3145.4	3053.0	3053.0
32.5°	8580.5	6076.8	3743.3	3417.6	3344.7	3325.2	3223.1	3116.2	2980.1	2892.6	2878.0
35°	8804.1	5843.5	3563.4	3247.4	3213.4	3174.5	3087.0	2970.3	2931.5	2912.0	2926.6
37.5°	9056.9	5580.9	3344.7	3101.6	3135.6	3062.7	2960.6	2907.1	3043.3	3009.2	3023.8
40°	9460.4	5396.2	3130.8	3014.1	3048.1	2965.5	2834.2	2814.8	2984.9	2863.4	2834.2
42.5°	10199.3	5391.3	2999.5	2882.8	2907.1	2843.9	2727.3	2717.6	2785.6	2639.8	2596.0
45°	11118.1	5561.5	2902.3	2785.6	2766.2	2756.4	2717.6	2673.8	2615.5	2425.9	2377.2
47.5°	12216.8	5838.6	2882.8	2639.8	2664.1	2746.7	2698.1	2586.3	2435.6	2314.1	2289.7
50°	13548.9	6412.3	2834.2	2532.8	2576.6	2707.8	2668.9	2513.4	2377.2	2299.5	2284.9
52.5°	15021.9	7136.6	2771.0	2367.5	2464.8	2673.8	2693.2	2547.4	2348.1	2280.0	2270.3
55°	16757.4	8206.1	2698.1	2187.7	2333.5	2639.8	2693.2	2450.2	2309.2	2309.2	2299.5
57.5°	20184.7	10131.3	2547.4	2022.4	2216.8	2576.6	2615.5	2455.0	2314.1	2314.1	2294.6
60°	25211.5	13135.6	2260.6	1896.0	2105.0	2489.1	2557.1	2382.1	2260.6	2289.7	2284.9
62.5°	29144.4	14049.6	2017.5	1774.4	1993.2	2328.6	2479.3	2304.3	2197.4	2304.3	2314.1
65°	29985.4	13125.9	1769.6	1643.2	1837.6	2173.1	2367.5	2192.5	2105.0	2314.1	2323.8
66°	29684.0	12406.4	1682.1	1604.3	1769.6	2095.3	2299.5	2153.6	2056.4	2304.3	2309.2
67.5°	28342.3	11327.2	1584.8	1521.6	1677.2	1983.5	2221.7	2100.1	1978.6	2275.2	2231.4
70°	25425.4	9606.2	1419.5	1375.8	1545.9	1798.7	2041.8	1964.0	1857.1	2095.3	2017.5
72.5°	19581.9	7676.2	1244.5	1249.4	1395.2	1609.1	1861.9	1808.5	1716.1	1837.6	1789.0
75°	11925.1	4905.2	1084.1	1093.8	1215.4	1429.3	1691.8	1652.9	1541.1	1609.1	1584.8
77.5°	5284.4	2430.7	914.0	933.4	1030.6	1259.1	1473.0	1409.8	1293.1	1307.7	1298.0
80°	2051.5	1152.2	743.8	768.1	831.3	1006.3	1220.2	1161.9	1059.8	1040.4	1030.6
82.5°	986.9	641.7	573.7	583.4	607.7	802.1	1050.1	977.2	841.0	753.5	753.5
85°	495.9	398.6	403.5	369.5	403.5	544.5	709.8	593.1	491.0	437.5	447.3
87.5°	199.3	199.3	199.3	170.2	179.9	257.7	330.6	223.6	204.2	121.5	121.5
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)