

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: P476469

Luminaire Tested: **IFLD-L-SA7E-722-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476469
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

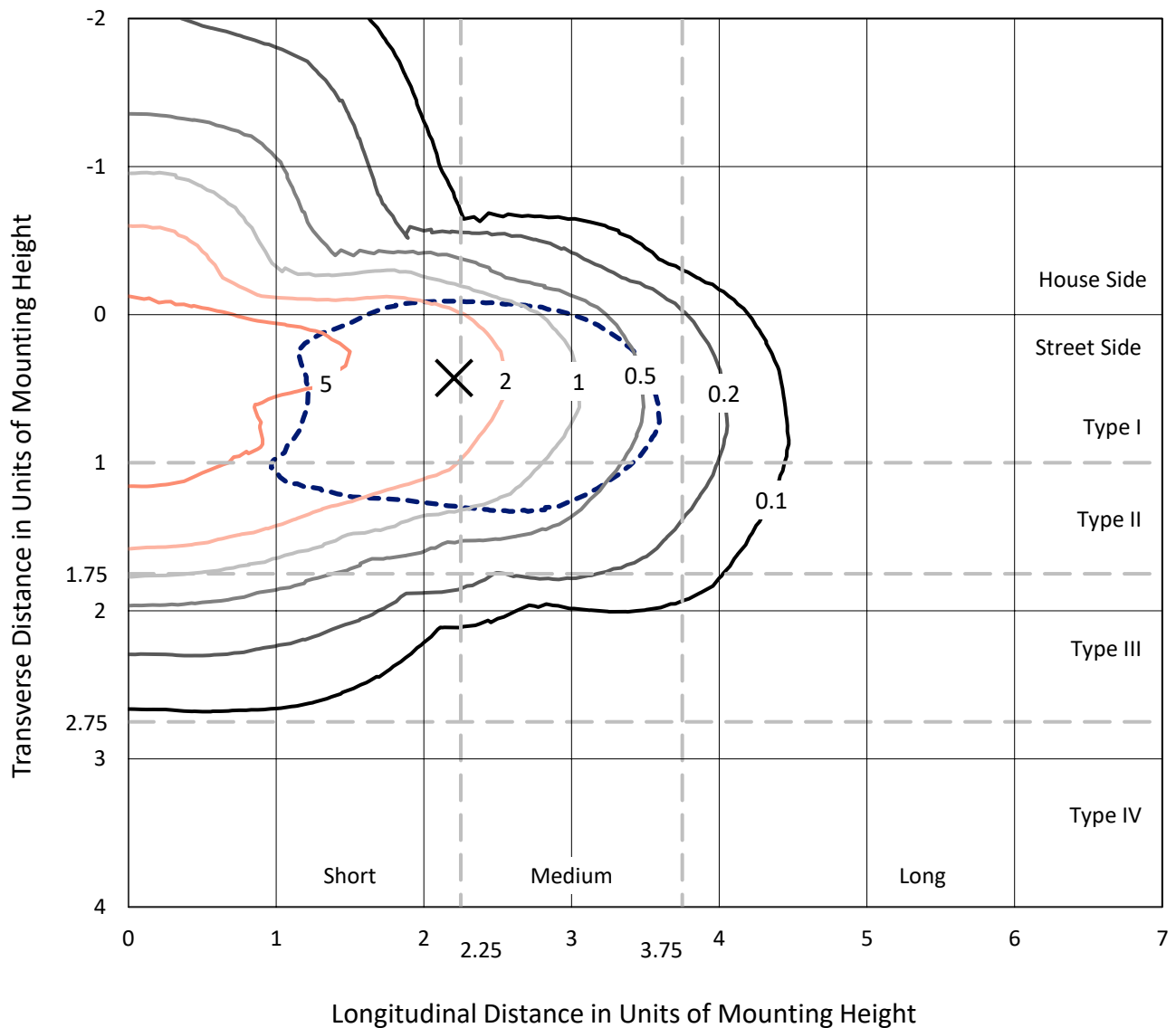
Lumens per Lamp: N/A
Luminaire Lumens: 41532 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

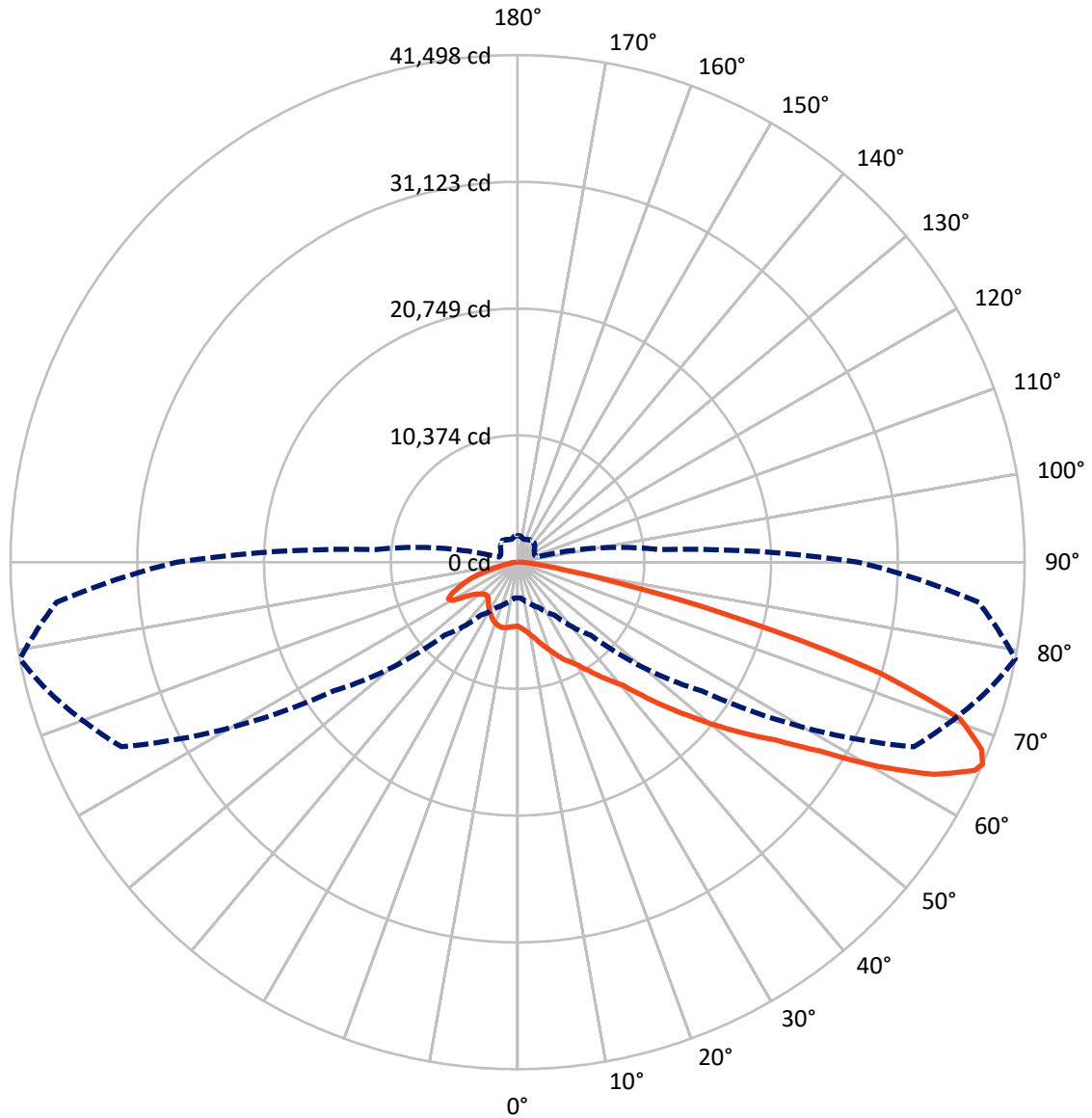
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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	8386.8	0.0	8386.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	33145.2	0.0	33145.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	41532.0	0.0	41532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.7	1.2
10°-20°	1592.4	3.8
20°-30°	2733.4	6.6
30°-40°	4222.5	10.2
40°-50°	6763.4	16.3
50°-60°	10098.2	24.3
60°-70°	10375.9	25.0
70°-80°	4599.5	11.1
80°-90°	631.1	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°	41532.0	100.0
0°-180°	41532.0	100.0

Coefficient of Utilization



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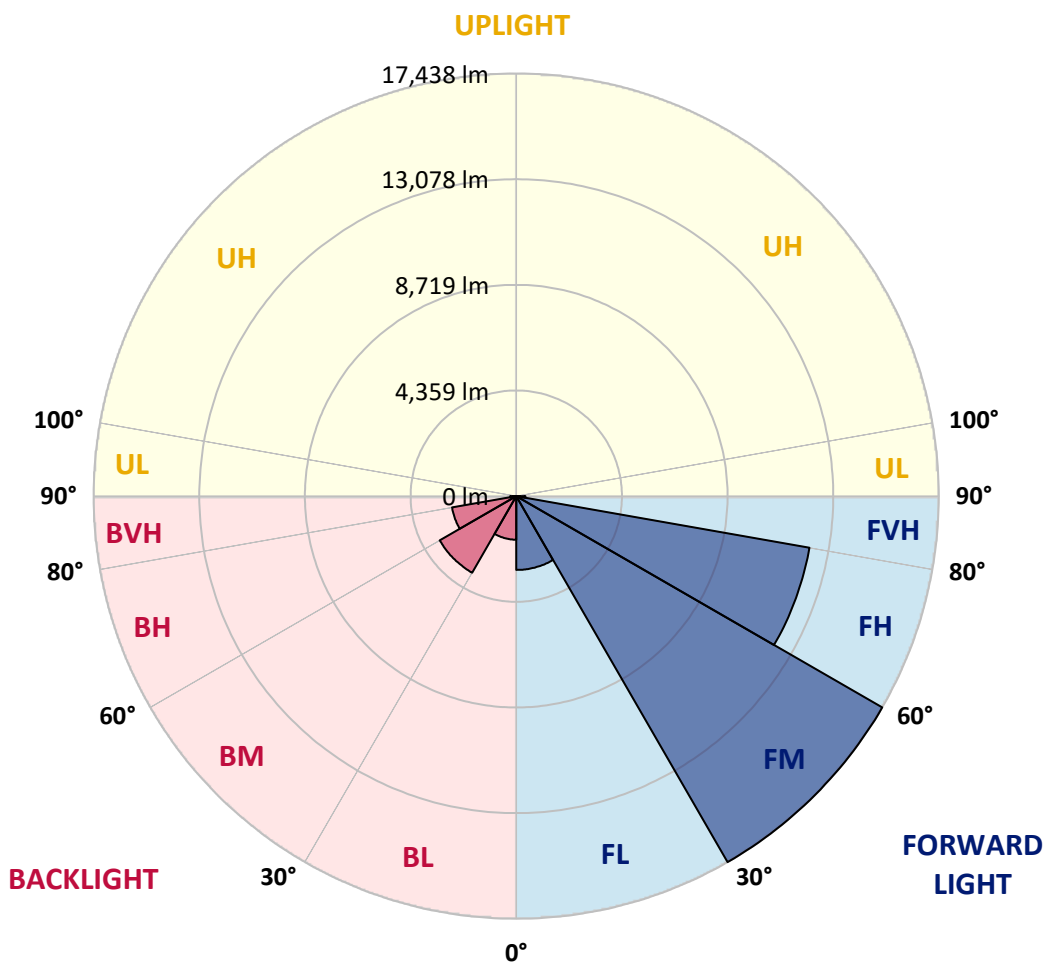
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3044.6	7.3			
FM (30°-60°)	17437.9	42.0			
FH (60°-80°)	12284.2	29.6			G5
FVH (80°-90°)	378.5	0.9			G3/500
BL (0°-30°)	1796.9	4.3	B3/2500		
BM (30°-60°)	3646.2	8.8	B3/5000		
BH (60°-80°)	2691.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	252.6	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°	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3
2.5°	5577.8	5582.4	5582.4	5564.1	5568.7	5582.4	5532.1	5422.5	5422.5	5404.2	5372.2
5°	5920.4	5897.6	5865.6	5870.2	5851.9	5851.9	5797.1	5692.0	5600.7	5564.1	5468.2
7.5°	5966.1	5989.0	5984.4	6039.2	6066.6	6066.6	6094.0	6007.2	5870.2	5783.4	5687.5
10°	6057.5	5998.1	5993.5	6121.4	6162.5	6258.5	6368.1	6322.4	6208.2	6084.9	5957.0
12.5°	6112.3	6148.8	6148.8	6212.8	6308.7	6450.3	6642.2	6729.0	6550.8	6422.9	6226.5
15°	6194.5	6144.3	6290.5	6345.3	6528.0	6628.5	6902.6	7126.4	7007.7	6852.4	6541.7
17.5°	6231.1	6199.1	6281.3	6381.8	6692.5	6843.2	7176.7	7487.3	7386.8	7286.3	6966.6
20°	6418.4	6413.8	6450.3	6532.6	6756.4	7053.4	7469.1	7898.5	7935.0	7752.3	7318.3
22.5°	6875.2	6815.8	6815.8	6783.8	6879.8	7185.8	7747.7	8341.6	8506.1	8291.3	7715.7
25°	7295.5	7377.7	7327.4	7181.3	7144.7	7304.6	7948.7	8812.1	9031.4	8830.4	8254.8
27.5°	7834.5	7861.9	7948.7	7752.3	7501.0	7551.3	8168.0	9077.1	9529.3	9259.8	8560.9
30°	8611.1	8560.9	8542.6	8323.3	7994.4	7925.9	8419.3	9465.4	10182.6	9803.4	8921.8
32.5°	9136.5	9259.8	9255.2	8953.7	8556.3	8405.6	8729.9	9830.8	10881.5	10529.8	9588.7
35°	10178.0	10305.9	10205.4	9762.3	9296.4	8994.9	9177.6	10305.9	11681.0	11406.9	10155.2
37.5°	11507.4	11808.9	11594.2	10776.5	10118.6	9789.7	9798.9	10822.1	12498.7	12274.8	10762.8
40°	12425.6	12832.2	12535.2	11767.8	11068.8	10758.2	10634.8	11434.3	13476.3	13238.7	11713.0
42.5°	13563.1	13901.1	13745.8	12987.5	12169.8	11904.8	11658.1	12457.6	14970.1	14860.5	12932.7
45°	14805.6	14965.5	14915.3	14435.6	13526.5	13435.2	12891.6	13805.2	16728.9	16774.6	14458.5
47.5°	15961.4	16048.2	16144.1	15797.0	15230.5	15308.2	14312.3	15248.8	18437.4	18738.9	16157.8
50°	16258.3	16555.3	16779.1	17012.1	17135.4	17660.8	15879.2	17021.2	20401.7	20986.5	18049.1
52.5°	15956.8	15934.0	16614.7	17345.6	18579.0	19680.0	18012.5	19223.1	22137.7	23293.4	19780.5
55°	14586.4	14540.7	15637.1	16605.5	19013.0	20803.7	21059.6	22155.9	24234.5	25737.4	22124.0
57.5°	12188.0	11904.8	13101.7	14691.4	18071.9	20927.1	24120.3	26509.5	27459.7	29172.7	25700.9
60°	8190.8	8072.1	9218.7	11114.5	14673.2	19177.4	25952.1	31959.4	32005.0	33932.8	31251.3
62.5°	5043.3	5066.2	5801.7	7222.4	10274.0	15203.1	25161.8	36312.9	36322.0	38254.4	35819.5
65°	3298.3	3312.0	3905.8	4691.6	6418.4	10310.5	20808.3	36655.5	39323.4	41118.7	37911.8
66°	2937.4	2941.9	3453.6	4093.1	5317.4	8437.5	18378.0	35764.7	39999.5	41497.8	37884.4
67.5°	2476.0	2535.4	2946.5	3439.9	4148.0	6062.0	14581.8	33188.2	39652.3	40967.9	37025.5
70°	1936.9	1968.9	2293.3	2795.8	3111.0	3508.4	8665.9	27053.1	36294.6	38428.0	33900.9
72.5°	1553.2	1580.6	1827.3	2270.4	2526.2	2311.5	4719.0	19629.7	28670.2	30945.2	26664.8
75°	1311.1	1315.7	1434.4	1786.2	2078.5	1735.9	2512.5	12599.2	18396.3	19456.1	16336.0
77.5°	1059.8	1078.1	1160.3	1361.3	1672.0	1365.9	1498.4	7057.9	9237.0	9314.6	7551.3
80°	863.4	872.5	922.8	991.3	1274.5	1009.6	1014.1	3444.4	3960.7	3869.3	3069.9
82.5°	680.7	689.8	749.2	735.5	936.5	721.8	630.4	1658.3	1822.7	1786.2	1411.6
85°	383.7	383.7	589.3	589.3	593.9	456.8	383.7	781.2	963.9	899.9	662.4
87.5°	123.3	127.9	178.2	187.3	296.9	205.6	187.3	292.4	456.8	402.0	237.5
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°	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3
2.5°	5354.0	5280.9	5248.9	5143.8	5116.4	5047.9	5015.9	4974.8	4961.1	4901.7	4956.5
5°	5395.1	5372.2	5244.3	5111.9	5011.4	4965.7	4897.1	4805.8	4796.6	4714.4	4705.3
7.5°	5568.7	5491.0	5267.2	5125.6	4924.6	4810.4	4659.6	4613.9	4554.5	4527.1	4586.5
10°	5838.2	5641.8	5308.3	4952.0	4705.3	4568.2	4458.6	4426.6	4431.2	4412.9	4385.5
12.5°	6030.1	5842.8	5239.8	4805.8	4486.0	4353.5	4344.4	4376.4	4426.6	4403.8	4435.8
15°	6304.2	5952.4	5189.5	4563.7	4307.8	4271.3	4266.7	4362.7	4358.1	4358.1	4353.5
17.5°	6560.0	6062.0	5006.8	4353.5	4120.5	4148.0	4179.9	4175.4	4221.0	4239.3	4271.3
20°	6884.3	6190.0	4751.0	4143.4	3978.9	3969.8	3965.2	3969.8	4015.5	4042.9	4020.0
22.5°	7167.6	6217.4	4536.3	3942.4	3809.9	3773.4	3714.0	3773.4	3750.5	3759.7	3787.1
25°	7414.2	6221.9	4230.2	3791.6	3640.9	3558.7	3513.0	3508.4	3467.3	3462.7	3462.7
27.5°	7619.8	6066.6	3960.7	3581.5	3439.9	3362.2	3357.7	3307.4	3202.3	3133.8	3142.9
30°	7779.7	5947.8	3773.4	3398.8	3261.7	3248.0	3206.9	3092.7	2955.6	2868.9	2868.9
32.5°	8062.9	5710.3	3517.5	3211.5	3142.9	3124.7	3028.7	2928.2	2800.3	2718.1	2704.4
35°	8273.1	5491.0	3348.5	3051.6	3019.6	2983.1	2900.8	2791.2	2754.6	2736.4	2750.1
37.5°	8510.6	5244.3	3142.9	2914.5	2946.5	2878.0	2782.1	2731.8	2859.7	2827.7	2841.4
40°	8889.8	5070.7	2941.9	2832.3	2864.3	2786.6	2663.3	2645.0	2804.9	2690.7	2663.3
42.5°	9584.2	5066.2	2818.6	2709.0	2731.8	2672.4	2562.8	2553.6	2617.6	2480.6	2439.4
45°	10447.6	5226.1	2727.2	2617.6	2599.3	2590.2	2553.6	2512.5	2457.7	2279.5	2233.9
47.5°	11480.0	5486.4	2709.0	2480.6	2503.4	2581.1	2535.4	2430.3	2288.7	2174.5	2151.6
50°	12731.7	6025.5	2663.3	2380.0	2421.2	2544.5	2508.0	2361.8	2233.9	2160.8	2147.1
52.5°	14115.8	6706.2	2603.9	2224.7	2316.1	2512.5	2530.8	2393.8	2206.5	2142.5	2133.4
55°	15746.7	7711.2	2535.4	2055.7	2192.8	2480.6	2530.8	2302.4	2169.9	2169.9	2160.8
57.5°	18967.3	9520.2	2393.8	1900.4	2083.1	2421.2	2457.7	2307.0	2174.5	2174.5	2156.2
60°	23690.9	12343.4	2124.2	1781.6	1978.0	2338.9	2402.9	2238.4	2124.2	2151.6	2147.1
62.5°	27386.6	13202.2	1895.8	1667.4	1873.0	2188.2	2329.8	2165.3	2064.8	2165.3	2174.5
65°	28176.9	12334.2	1662.8	1544.1	1726.8	2042.0	2224.7	2060.3	1978.0	2174.5	2183.6
66°	27893.6	11658.1	1580.6	1507.5	1662.8	1968.9	2160.8	2023.7	1932.4	2165.3	2169.9
67.5°	26632.8	10644.0	1489.2	1429.9	1576.0	1863.8	2087.7	1973.5	1859.3	2137.9	2096.8
70°	23891.9	9026.8	1333.9	1292.8	1452.7	1690.2	1918.7	1845.6	1745.1	1968.9	1895.8
72.5°	18400.8	7213.2	1169.5	1174.0	1311.1	1512.1	1749.6	1699.4	1612.6	1726.8	1681.1
75°	11205.9	4609.3	1018.7	1027.9	1142.1	1343.1	1589.7	1553.2	1448.1	1512.1	1489.2
77.5°	4965.7	2284.1	858.8	877.1	968.5	1183.2	1384.2	1324.8	1215.2	1228.9	1219.7
80°	1927.8	1082.7	698.9	721.8	781.2	945.6	1146.6	1091.8	995.9	977.6	968.5
82.5°	927.4	603.0	539.1	548.2	571.0	753.8	986.7	918.2	790.3	708.1	708.1
85°	466.0	374.6	379.2	347.2	379.2	511.6	667.0	557.3	461.4	411.1	420.3
87.5°	187.3	187.3	187.3	159.9	169.0	242.1	310.6	210.1	191.9	114.2	114.2
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)