

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: P484671

Luminaire Tested: **IFLD-S-SA3C-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484671
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

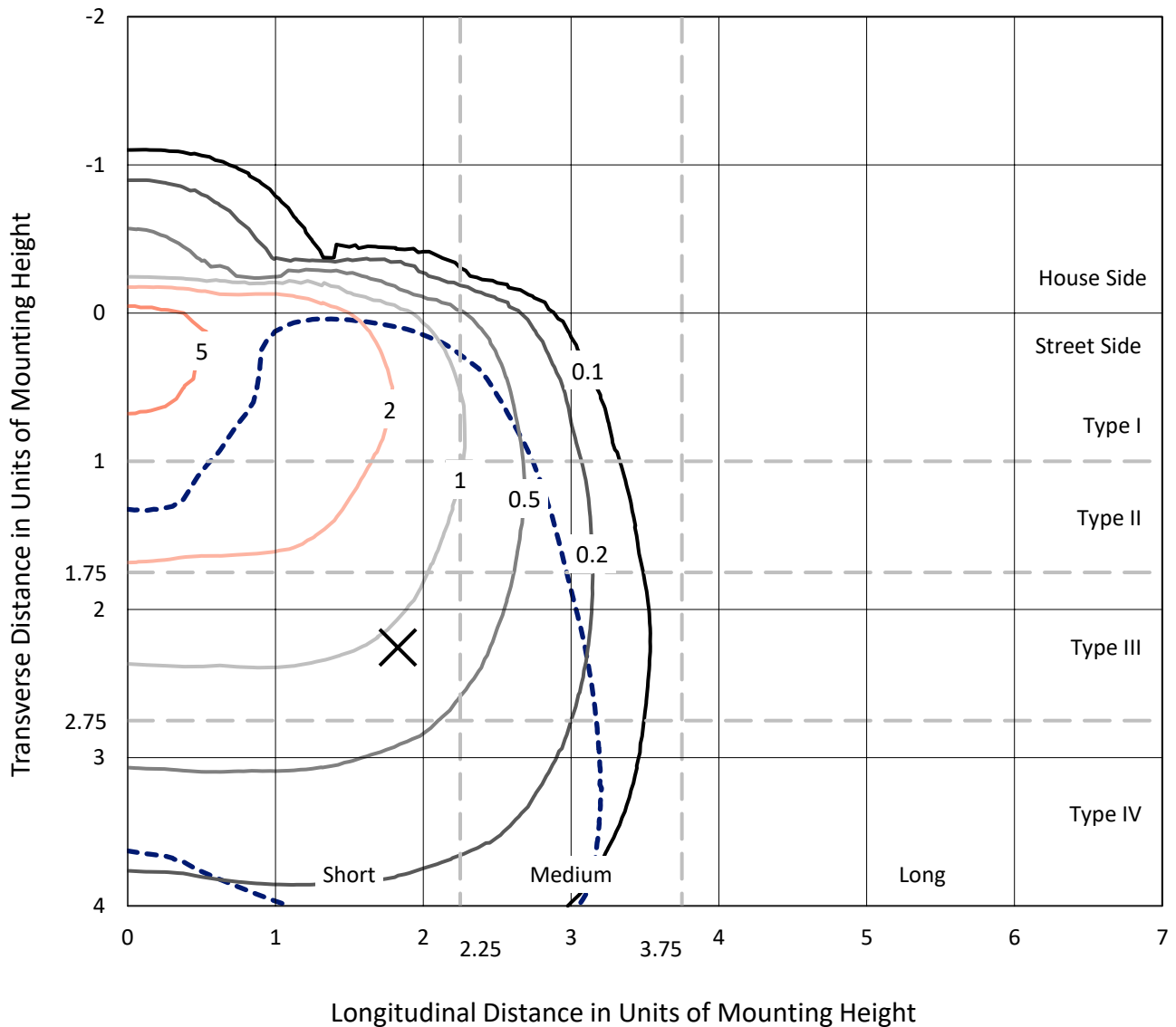
Lumens per Lamp: N/A
Luminaire Lumens: 14634.3 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

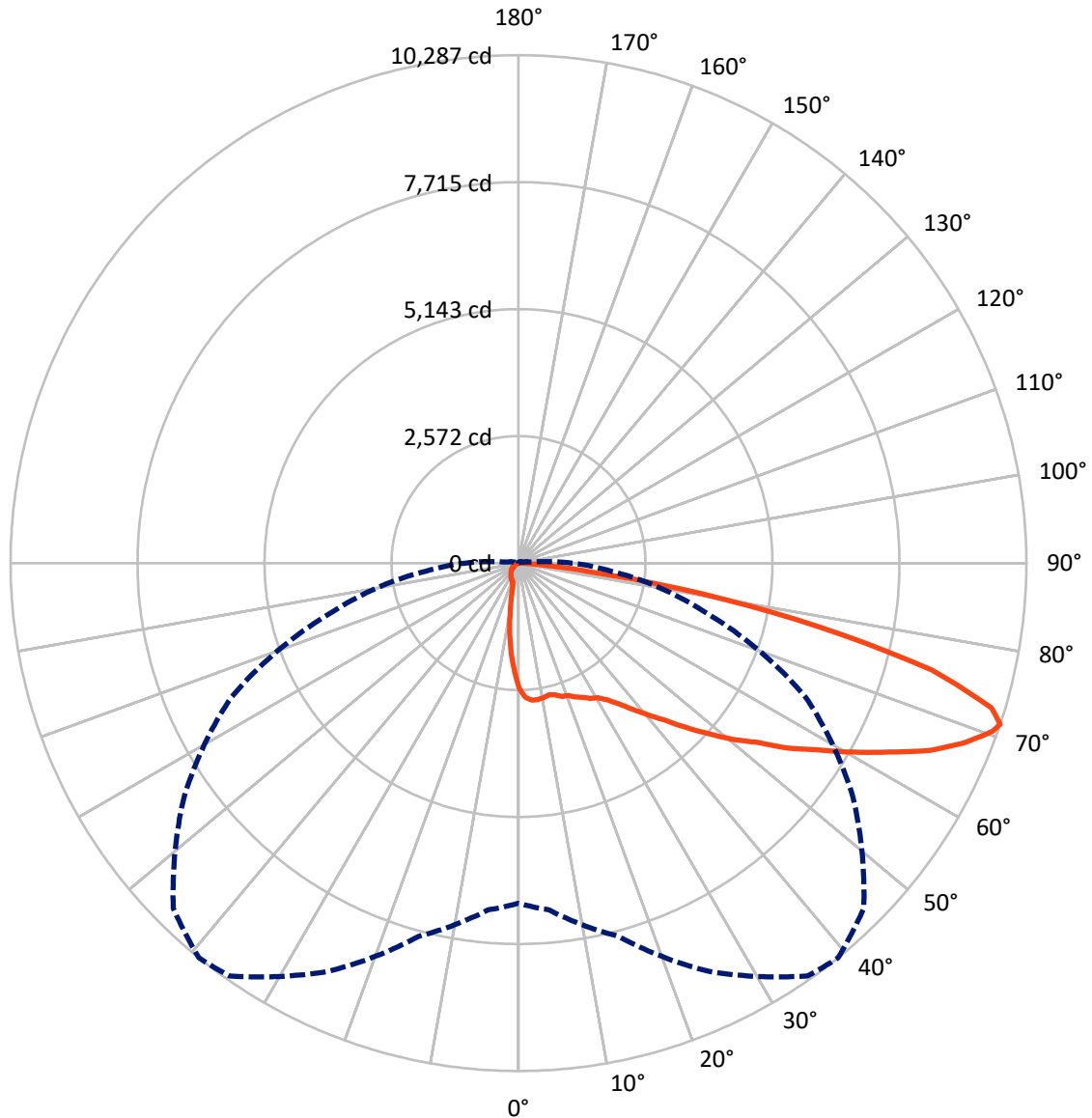
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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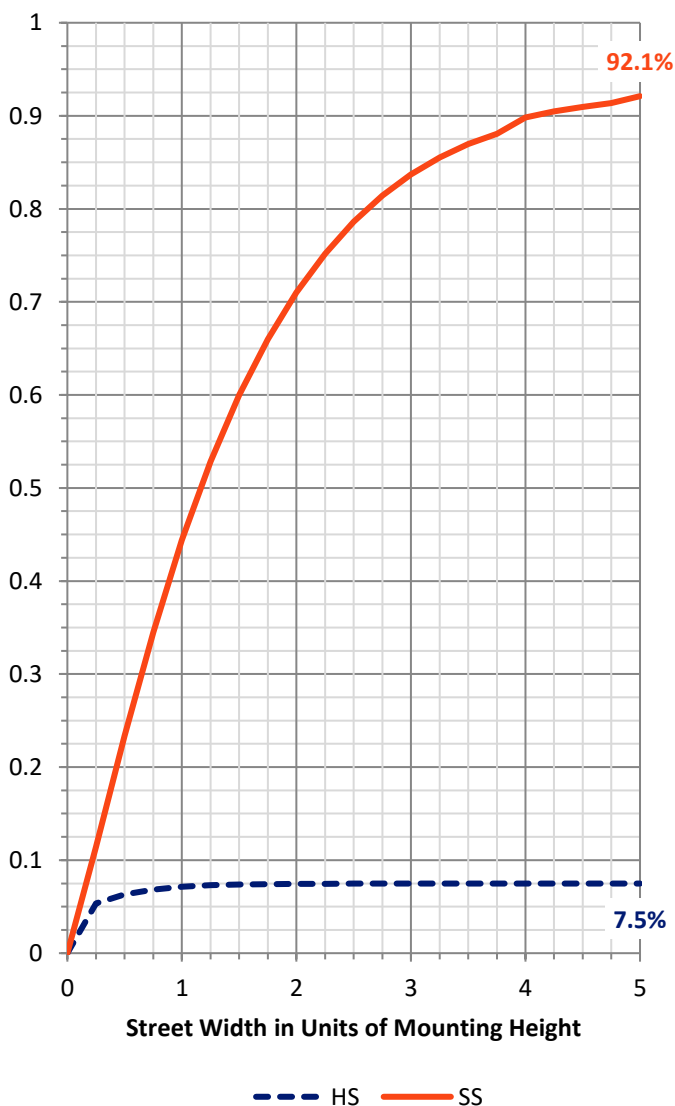
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1101.7	0.0	1101.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	13532.5	0.0	13532.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	14634.3	0.0	14634.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.0	1.5
10°-20°	524.2	3.6
20°-30°	841.5	5.8
30°-40°	1288.1	8.8
40°-50°	2067.6	14.1
50°-60°	3037.0	20.8
60°-70°	3825.0	26.1
70°-80°	2552.7	17.4
80°-90°	285.3	1.9
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°	14634.3	100.0
0°-180°	14634.3	100.0

Coefficient of Utilization



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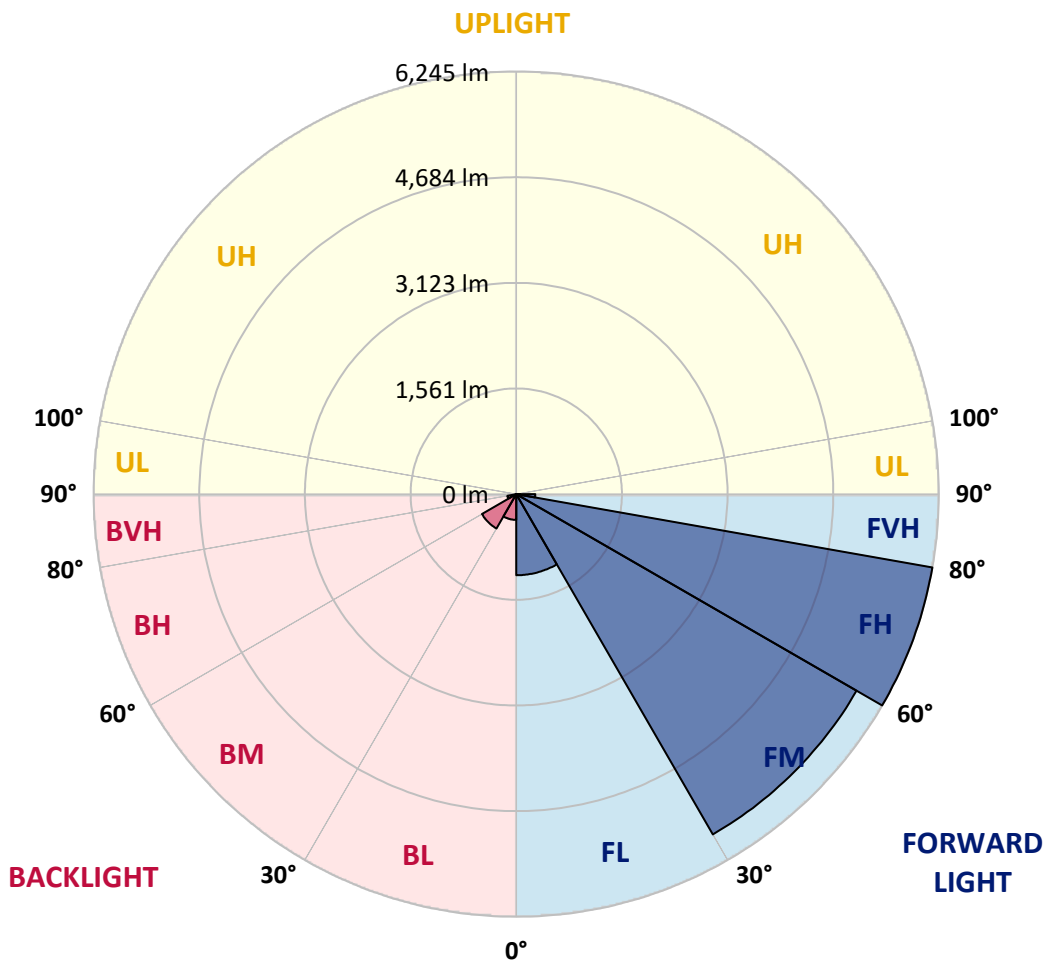
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.2	8.2			
FM (30°-60°)	5807.1	39.7			
FH (60°-80°)	6245.1	42.7			G3/7500
FVH (80°-90°)	282.1	1.9			G3/500
BL (0°-30°)	380.4	2.6	B1/500		
BM (30°-60°)	585.6	4.0	B1/1000		
BH (60°-80°)	132.6	0.9	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2
2.5°	2744.9	2771.8	2744.9	2733.4	2721.9	2723.8	2693.1	2698.8	2662.4	2614.4	2576.0
5°	2831.3	2867.7	2838.9	2825.5	2823.6	2787.1	2771.8	2735.3	2691.1	2616.3	2570.2
7.5°	2823.6	2815.9	2829.4	2817.8	2792.9	2792.9	2775.6	2723.8	2679.6	2595.2	2516.5
10°	2766.0	2789.0	2777.5	2764.1	2769.8	2771.8	2739.1	2702.7	2689.2	2604.8	2476.2
12.5°	2760.2	2721.9	2764.1	2766.0	2741.1	2739.1	2735.3	2725.7	2683.5	2606.7	2485.8
15°	2741.1	2725.7	2767.9	2769.8	2775.6	2769.8	2775.6	2767.9	2725.7	2681.5	2528.0
17.5°	2756.4	2739.1	2798.6	2827.4	2814.0	2840.9	2831.3	2796.7	2760.2	2708.4	2568.3
20°	2760.2	2785.2	2850.5	2862.0	2904.2	2860.1	2858.1	2821.7	2798.6	2743.0	2593.3
22.5°	2831.3	2842.8	2923.4	2948.4	2950.3	2944.5	2896.5	2854.3	2844.7	2775.6	2599.0
25°	2938.8	2979.1	3015.5	3030.9	3036.7	3009.8	2959.9	2906.1	2883.1	2838.9	2658.5
27.5°	3128.8	3103.8	3136.5	3159.5	3094.2	3103.8	3040.5	2994.4	2961.8	2923.4	2727.6
30°	3297.7	3274.7	3276.6	3272.8	3217.1	3165.3	3148.0	3067.4	3027.1	3042.4	2835.1
32.5°	3449.4	3399.4	3441.7	3422.5	3318.8	3303.5	3290.0	3188.3	3196.0	3267.0	2996.3
35°	3589.5	3572.2	3606.8	3572.2	3503.1	3499.3	3485.8	3397.5	3439.8	3541.5	3272.8
37.5°	3718.1	3723.8	3766.1	3748.8	3754.6	3758.4	3750.7	3656.7	3777.6	4006.0	3595.2
40°	3837.1	3829.4	3933.1	3986.8	3998.3	4040.6	4040.6	4017.5	4203.7	4460.9	4042.5
42.5°	3963.8	3983.0	4117.3	4207.6	4317.0	4353.4	4403.3	4414.9	4702.8	4996.5	4499.3
45°	4171.1	4138.5	4309.3	4522.4	4618.3	4746.9	4823.7	4889.0	5236.4	5639.5	4956.2
47.5°	4434.1	4368.8	4518.5	4827.6	5050.2	5155.8	5294.0	5380.4	5720.1	6136.7	5388.1
50°	4725.8	4658.6	4731.6	5157.7	5416.8	5608.8	5785.4	5894.8	6305.6	6693.3	5702.9
52.5°	5056.0	4994.6	5006.1	5501.3	5883.3	6023.4	6255.7	6418.8	6827.7	7029.2	5814.2
55°	5407.2	5391.9	5355.4	5837.2	6292.1	6606.9	6747.1	6942.9	7363.2	7211.6	5935.1
57.5°	5760.4	5712.4	5764.3	6282.5	6948.6	7136.7	7330.6	7447.7	7660.7	7370.9	5889.0
60°	6092.5	6096.4	6169.3	6766.3	7507.2	7774.0	7948.7	7877.7	7965.9	7440.0	5783.5
62.5°	6372.8	6365.1	6549.4	7309.5	8246.2	8426.6	8557.2	8240.4	8108.0	7507.2	5599.2
65°	6624.2	6710.6	7000.4	7956.4	8941.1	9148.4	9069.7	8584.0	8246.2	7309.5	5080.9
67.5°	6814.2	6942.9	7445.8	8564.8	9578.3	9724.2	9614.8	8845.1	8083.0	6534.0	4138.5
70°	6925.6	7056.1	7764.4	9071.6	10087.0	10192.6	9935.4	8643.5	7131.0	4731.6	2581.7
71°	6891.0	7050.3	7825.8	9125.3	10207.9	10286.6	9887.4	8271.2	6413.1	3961.9	1883.0
72.5°	6578.1	6727.9	7570.5	9086.9	10062.1	10014.1	9513.1	7376.7	5048.3	2526.1	973.2
75°	4833.3	4994.6	6497.5	7860.4	8981.4	8651.2	7699.1	5176.9	2633.6	773.6	284.1
77.5°	2407.1	2433.9	4032.9	5706.7	6587.7	6259.5	5159.6	2886.9	984.7	228.4	142.0
80°	1109.5	1117.2	1512.6	2956.0	3983.0	3748.8	2890.8	1424.3	445.3	120.9	111.3
82.5°	756.3	767.8	911.8	1224.6	1729.5	1458.8	1170.9	911.8	255.3	72.9	109.4
85°	138.2	126.7	510.6	648.8	668.0	453.0	405.0	788.9	96.0	42.2	96.0
87.5°	0.0	1.9	71.0	264.9	238.0	105.6	138.2	192.0	9.6	13.4	17.3
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°	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2	2547.2
2.5°	2543.3	2522.2	2451.2	2372.5	2301.5	2245.8	2174.8	2142.2	2090.3	2061.5	2059.6
5°	2506.9	2449.3	2326.4	2194.0	2046.2	1923.3	1787.1	1710.3	1622.0	1595.1	1589.4
7.5°	2445.5	2362.9	2182.5	1996.3	1769.8	1552.9	1385.9	1207.4	1098.0	1051.9	1034.6
10°	2407.1	2307.2	2061.5	1783.2	1466.5	1161.3	927.1	737.1	637.3	589.3	577.8
12.5°	2407.1	2299.6	1963.7	1579.8	1159.4	794.7	573.9	464.5	431.9	420.4	420.4
15°	2401.3	2284.2	1869.6	1370.5	858.0	533.6	428.0	405.0	401.2	399.3	397.3
17.5°	2430.1	2257.3	1773.6	1145.9	606.6	420.4	393.5	389.7	385.8	385.8	382.0
20°	2451.2	2242.0	1658.5	907.9	453.0	389.7	378.1	372.4	370.5	368.5	372.4
22.5°	2433.9	2218.9	1516.4	679.5	395.4	370.5	362.8	357.0	353.2	353.2	355.1
25°	2466.6	2197.8	1374.4	512.5	370.5	353.2	345.5	341.7	339.8	337.8	334.0
27.5°	2510.7	2207.4	1205.4	412.7	349.4	335.9	328.2	324.4	322.5	318.6	322.5
30°	2564.5	2205.5	1019.3	360.9	330.2	316.7	309.0	307.1	303.3	301.4	303.3
32.5°	2656.6	2255.4	827.3	334.0	309.0	297.5	289.8	287.9	286.0	284.1	282.2
35°	2854.3	2316.8	646.9	312.9	289.8	276.4	270.7	266.8	264.9	263.0	261.1
37.5°	3098.1	2453.1	493.3	293.7	270.7	257.2	251.5	249.5	241.9	239.9	238.0
40°	3403.3	2599.0	380.1	272.6	253.4	239.9	234.2	228.4	218.8	215.0	211.1
42.5°	3783.3	2741.1	312.9	253.4	234.2	224.6	215.0	205.4	197.7	190.0	186.2
45°	4163.4	2906.1	274.5	236.1	218.8	207.3	199.6	186.2	172.8	161.2	159.3
47.5°	4480.1	2965.6	251.5	216.9	203.5	193.9	182.4	165.1	145.9	134.4	132.4
50°	4716.2	2931.1	228.4	197.7	186.2	176.6	161.2	140.1	120.9	109.4	105.6
52.5°	4762.3	2779.4	207.3	182.4	168.9	157.4	140.1	117.1	96.0	84.5	82.5
55°	4729.7	2528.0	190.0	168.9	153.6	136.3	117.1	94.1	74.9	63.3	61.4
57.5°	4662.5	2230.5	170.8	151.6	134.4	117.1	96.0	76.8	55.7	44.1	44.1
60°	4434.1	1825.5	151.6	132.4	115.2	99.8	78.7	55.7	38.4	28.8	26.9
62.5°	4115.4	1403.2	132.4	113.3	99.8	82.5	61.4	40.3	23.0	15.4	15.4
65°	3533.8	982.8	111.3	94.1	82.5	67.2	46.1	25.0	13.4	5.8	5.8
67.5°	2685.4	608.5	92.1	78.7	71.0	53.7	32.6	15.4	5.8	1.9	0.0
70°	1541.4	316.7	72.9	63.3	55.7	40.3	23.0	7.7	3.8	0.0	0.0
71°	1076.8	234.2	65.3	55.7	49.9	36.5	19.2	5.8	1.9	0.0	0.0
72.5°	539.4	155.5	55.7	46.1	40.3	28.8	15.4	5.8	1.9	0.0	0.0
75°	192.0	99.8	38.4	30.7	28.8	21.1	9.6	3.8	1.9	0.0	0.0
77.5°	132.4	80.6	26.9	19.2	19.2	13.4	5.8	1.9	1.9	0.0	0.0
80°	120.9	44.1	17.3	11.5	9.6	7.7	3.8	1.9	0.0	0.0	0.0
82.5°	120.9	32.6	9.6	7.7	5.8	3.8	1.9	0.0	0.0	0.0	0.0
85°	84.5	17.3	5.8	5.8	3.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	5.8	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
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)