

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: P484711

Luminaire Tested: **IFLD-S-SA3D-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484711
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

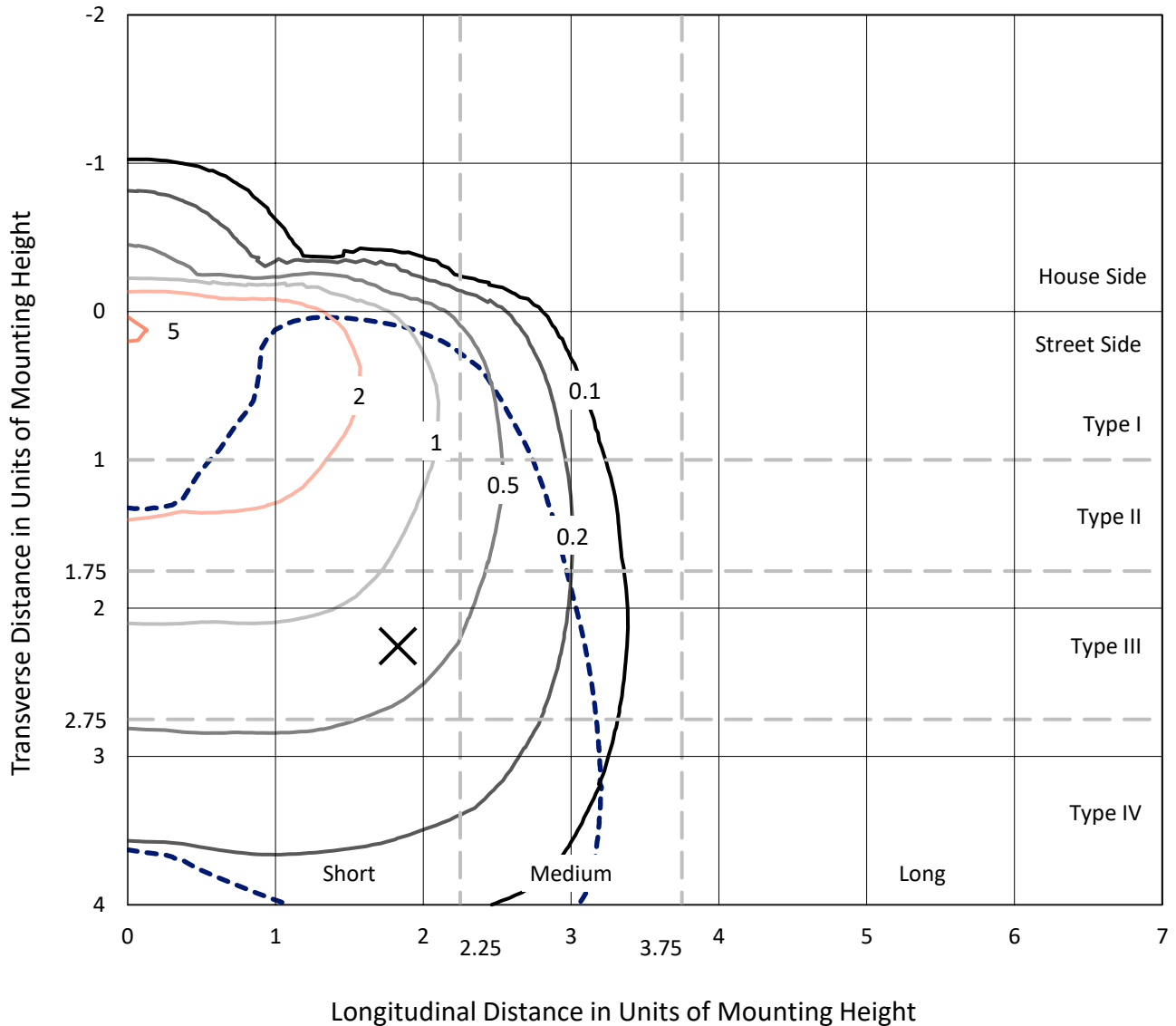
Lumens per Lamp: N/A
Luminaire Lumens: 17533 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1
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

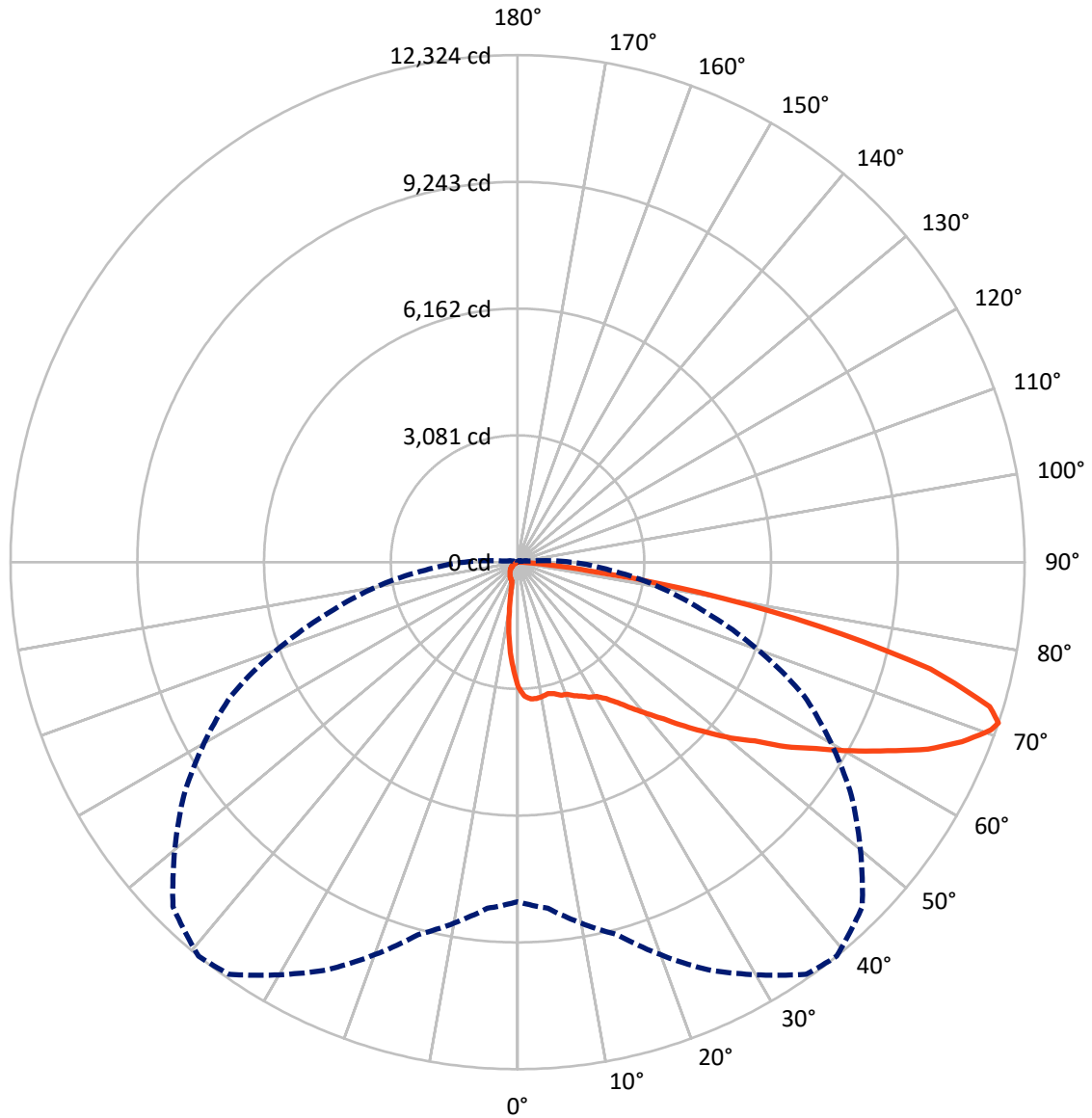
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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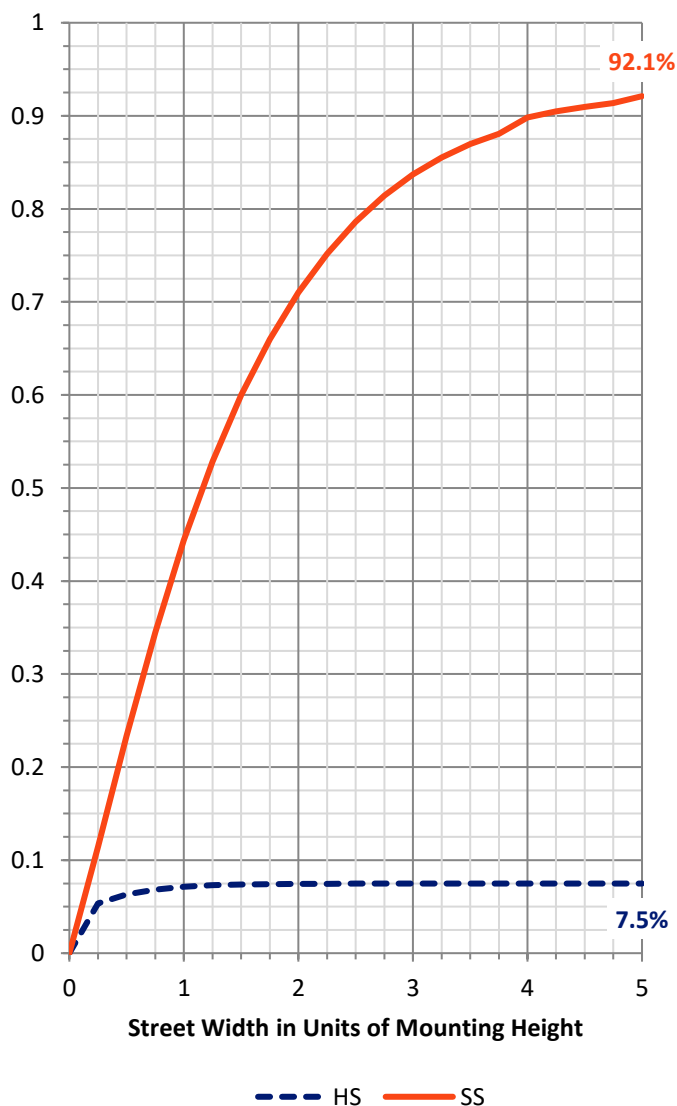
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1320.0	0.0	1320.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	16213.0	0.0	16213.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	17533.0	0.0	17533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	1.5
10°-20°	628.0	3.6
20°-30°	1008.2	5.8
30°-40°	1543.2	8.8
40°-50°	2477.2	14.1
50°-60°	3638.6	20.8
60°-70°	4582.6	26.1
70°-80°	3058.3	17.4
80°-90°	341.8	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°	17533.0	100.0
0°-180°	17533.0	100.0

Coefficient of Utilization



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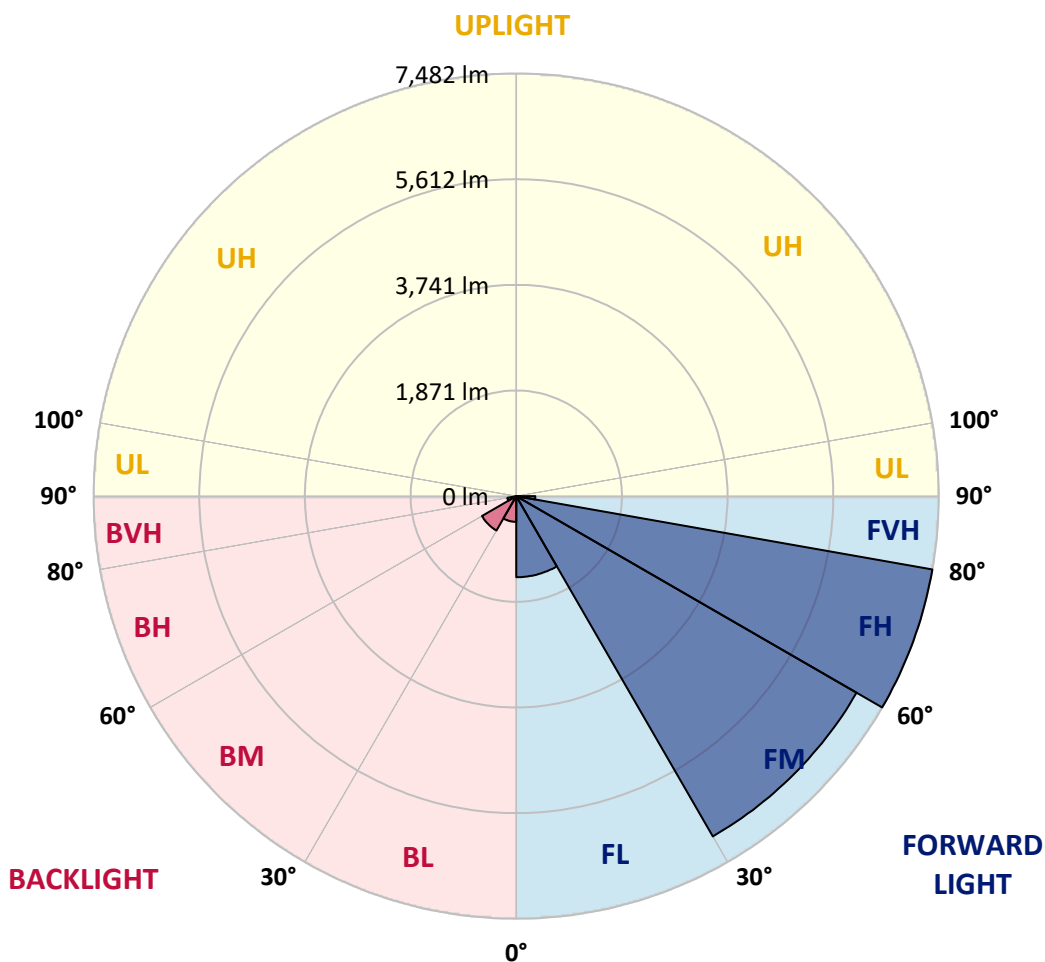
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.6	8.2			
FM (30°-60°)	6957.3	39.7			
FH (60°-80°)	7482.1	42.7			G3/7500
FVH (80°-90°)	338.0	1.9			G3/500
BL (0°-30°)	455.7	2.6	B1/500		
BM (30°-60°)	701.6	4.0	B1/1000		
BH (60°-80°)	158.9	0.9	B1/500		G1/500
BVH (80°-90°)	3.8	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°	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7
2.5°	3288.6	3320.8	3288.6	3274.8	3261.0	3263.3	3226.5	3233.4	3189.7	3132.2	3086.2
5°	3392.1	3435.8	3401.3	3385.2	3382.9	3339.2	3320.8	3277.1	3224.2	3134.5	3079.3
7.5°	3382.9	3373.7	3389.8	3376.0	3346.1	3346.1	3325.4	3263.3	3210.4	3109.2	3014.9
10°	3313.9	3341.5	3327.7	3311.6	3318.5	3320.8	3281.7	3238.0	3221.9	3120.7	2966.6
12.5°	3307.0	3261.0	3311.6	3313.9	3284.0	3281.7	3277.1	3265.6	3215.0	3123.0	2978.1
15°	3284.0	3265.6	3316.2	3318.5	3325.4	3318.5	3325.4	3316.2	3265.6	3212.7	3028.7
17.5°	3302.4	3281.7	3353.0	3387.5	3371.4	3403.6	3392.1	3350.7	3307.0	3244.9	3077.0
20°	3307.0	3336.9	3415.1	3428.9	3479.5	3426.6	3424.3	3380.6	3353.0	3286.3	3106.9
22.5°	3392.1	3405.9	3502.5	3532.4	3534.7	3527.8	3470.3	3419.7	3408.2	3325.4	3113.8
25°	3520.9	3569.2	3612.9	3631.3	3638.2	3606.0	3546.2	3481.8	3454.2	3401.3	3185.1
27.5°	3748.5	3718.6	3757.7	3785.3	3707.1	3718.6	3642.8	3587.6	3548.5	3502.5	3267.9
30°	3950.9	3923.3	3925.6	3921.0	3854.3	3792.2	3771.5	3675.0	3626.7	3645.1	3396.7
32.5°	4132.6	4072.8	4123.4	4100.4	3976.2	3957.8	3941.7	3819.8	3829.0	3914.1	3589.9
35°	4300.5	4279.8	4321.2	4279.8	4197.0	4192.4	4176.3	4070.5	4121.1	4243.0	3921.0
37.5°	4454.6	4461.5	4512.1	4491.4	4498.3	4502.9	4493.7	4381.0	4525.8	4799.5	4307.4
40°	4597.1	4587.9	4712.1	4776.5	4790.3	4840.9	4840.9	4813.3	5036.4	5344.6	4843.2
42.5°	4748.9	4771.9	4932.9	5041.0	5172.1	5215.8	5275.6	5289.4	5634.3	5986.2	5390.5
45°	4997.3	4958.2	5162.9	5418.1	5533.1	5687.2	5779.2	5857.4	6273.6	6756.6	5937.9
47.5°	5312.4	5234.2	5413.5	5783.8	6050.6	6177.0	6342.6	6446.1	6853.2	7352.2	6455.3
50°	5661.9	5581.4	5668.8	6179.3	6489.8	6719.8	6931.4	7062.4	7554.6	8019.1	6832.5
52.5°	6057.5	5983.9	5997.7	6591.0	7048.6	7216.5	7494.8	7690.3	8180.1	8421.6	6965.9
55°	6478.3	6459.9	6416.2	6993.4	7538.5	7915.6	8083.5	8318.1	8821.7	8640.0	7110.7
57.5°	6901.5	6844.0	6906.1	7527.0	8325.0	8550.4	8782.6	8922.9	9178.2	8830.9	7055.5
60°	7299.3	7303.9	7391.3	8106.5	8994.2	9313.9	9523.1	9438.1	9543.8	8913.7	6929.1
62.5°	7635.1	7625.9	7846.6	8757.3	9879.6	10095.8	10252.2	9872.7	9714.0	8994.2	6708.3
65°	7936.3	8039.8	8387.1	9532.3	10712.1	10960.5	10866.2	10284.3	9879.6	8757.3	6087.4
67.5°	8164.0	8318.1	8920.6	10261.4	11475.6	11650.4	11519.3	10597.1	9684.1	7828.2	4958.2
70°	8297.4	8453.8	9302.4	10868.5	12085.0	12211.5	11903.4	10355.6	8543.5	5668.8	3093.1
71°	8256.0	8446.9	9376.0	10932.9	12229.9	12324.2	11845.9	9909.5	7683.4	4746.6	2256.0
72.5°	7881.1	8060.5	9070.1	10886.9	12055.1	11997.6	11397.4	8837.8	6048.3	3026.4	1166.0
75°	5790.7	5983.9	7784.6	9417.4	10760.4	10364.8	9224.2	6202.3	3155.2	926.8	340.4
77.5°	2883.8	2916.0	4831.7	6837.1	7892.6	7499.4	6181.6	3458.8	1179.8	273.7	170.2
80°	1329.2	1338.4	1812.2	3541.6	4771.9	4491.4	3463.4	1706.4	533.5	144.9	133.4
82.5°	906.1	919.9	1092.4	1467.2	2072.0	1747.8	1402.8	1092.4	305.9	87.4	131.1
85°	165.6	151.8	611.7	777.3	800.3	542.7	485.2	945.2	115.0	50.6	115.0
87.5°	0.0	2.3	85.1	317.4	285.2	126.5	165.6	230.0	11.5	16.1	20.7
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°	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7
2.5°	3047.1	3021.8	2936.7	2842.5	2757.4	2690.7	2605.6	2566.5	2504.4	2469.9	2467.6
5°	3003.4	2934.4	2787.3	2628.6	2451.5	2304.3	2141.0	2049.1	1943.3	1911.1	1904.2
7.5°	2929.8	2831.0	2614.8	2391.7	2120.3	1860.5	1660.4	1446.5	1315.4	1260.2	1239.5
10°	2883.8	2764.3	2469.9	2136.4	1757.0	1391.3	1110.8	883.1	763.5	706.0	692.2
12.5°	2883.8	2755.1	2352.6	1892.7	1389.0	952.1	687.6	556.5	517.4	503.6	503.6
15°	2877.0	2736.7	2239.9	1642.0	1028.0	639.3	512.8	485.2	480.6	478.3	476.0
17.5°	2911.4	2704.5	2124.9	1372.9	726.7	503.6	471.4	466.8	462.2	462.2	457.6
20°	2936.7	2686.1	1987.0	1087.8	542.7	466.8	453.0	446.1	443.8	441.5	446.1
22.5°	2916.0	2658.5	1816.8	814.1	473.7	443.8	434.6	427.7	423.1	423.1	425.4
25°	2955.1	2633.2	1646.6	614.0	443.8	423.1	413.9	409.4	407.1	404.8	400.2
27.5°	3008.0	2644.7	1444.2	494.4	418.5	402.5	393.3	388.7	386.4	381.8	386.4
30°	3072.4	2642.4	1221.2	432.3	395.6	379.5	370.3	368.0	363.4	361.1	363.4
32.5°	3182.8	2702.2	991.2	400.2	370.3	356.5	347.3	345.0	342.7	340.4	338.1
35°	3419.7	2775.8	775.0	374.9	347.3	331.2	324.3	319.7	317.4	315.1	312.8
37.5°	3711.7	2939.0	591.0	351.9	324.3	308.2	301.3	299.0	289.8	287.5	285.2
40°	4077.4	3113.8	455.3	326.6	303.6	287.5	280.6	273.7	262.2	257.6	253.0
42.5°	4532.7	3284.0	374.9	303.6	280.6	269.1	257.6	246.1	236.9	227.7	223.1
45°	4988.1	3481.8	328.9	282.9	262.2	248.4	239.2	223.1	207.0	193.2	190.9
47.5°	5367.5	3553.1	301.3	259.9	243.8	232.3	218.5	197.8	174.8	161.0	158.7
50°	5650.4	3511.7	273.7	236.9	223.1	211.6	193.2	167.9	144.9	131.1	126.5
52.5°	5705.6	3330.0	248.4	218.5	202.4	188.6	167.9	140.3	115.0	101.2	98.9
55°	5666.5	3028.7	227.7	202.4	184.0	163.3	140.3	112.7	89.7	75.9	73.6
57.5°	5586.0	2672.3	204.7	181.7	161.0	140.3	115.0	92.0	66.7	52.9	52.9
60°	5312.4	2187.0	181.7	158.7	138.0	119.6	94.3	66.7	46.0	34.5	32.2
62.5°	4930.6	1681.1	158.7	135.7	119.6	98.9	73.6	48.3	27.6	18.4	18.4
65°	4233.8	1177.5	133.4	112.7	98.9	80.5	55.2	29.9	16.1	6.9	6.9
67.5°	3217.3	729.0	110.4	94.3	85.1	64.4	39.1	18.4	6.9	2.3	0.0
70°	1846.7	379.5	87.4	75.9	66.7	48.3	27.6	9.2	4.6	0.0	0.0
71°	1290.1	280.6	78.2	66.7	59.8	43.7	23.0	6.9	2.3	0.0	0.0
72.5°	646.2	186.3	66.7	55.2	48.3	34.5	18.4	6.9	2.3	0.0	0.0
75°	230.0	119.6	46.0	36.8	34.5	25.3	11.5	4.6	2.3	0.0	0.0
77.5°	158.7	96.6	32.2	23.0	23.0	16.1	6.9	2.3	2.3	0.0	0.0
80°	144.9	52.9	20.7	13.8	11.5	9.2	4.6	2.3	0.0	0.0	0.0
82.5°	144.9	39.1	11.5	9.2	6.9	4.6	2.3	0.0	0.0	0.0	0.0
85°	101.2	20.7	6.9	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	16.1	6.9	4.6	2.3	2.3	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)