

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: P483931

Luminaire Tested: **IFLD-S-SA3D-730-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483931  
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-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

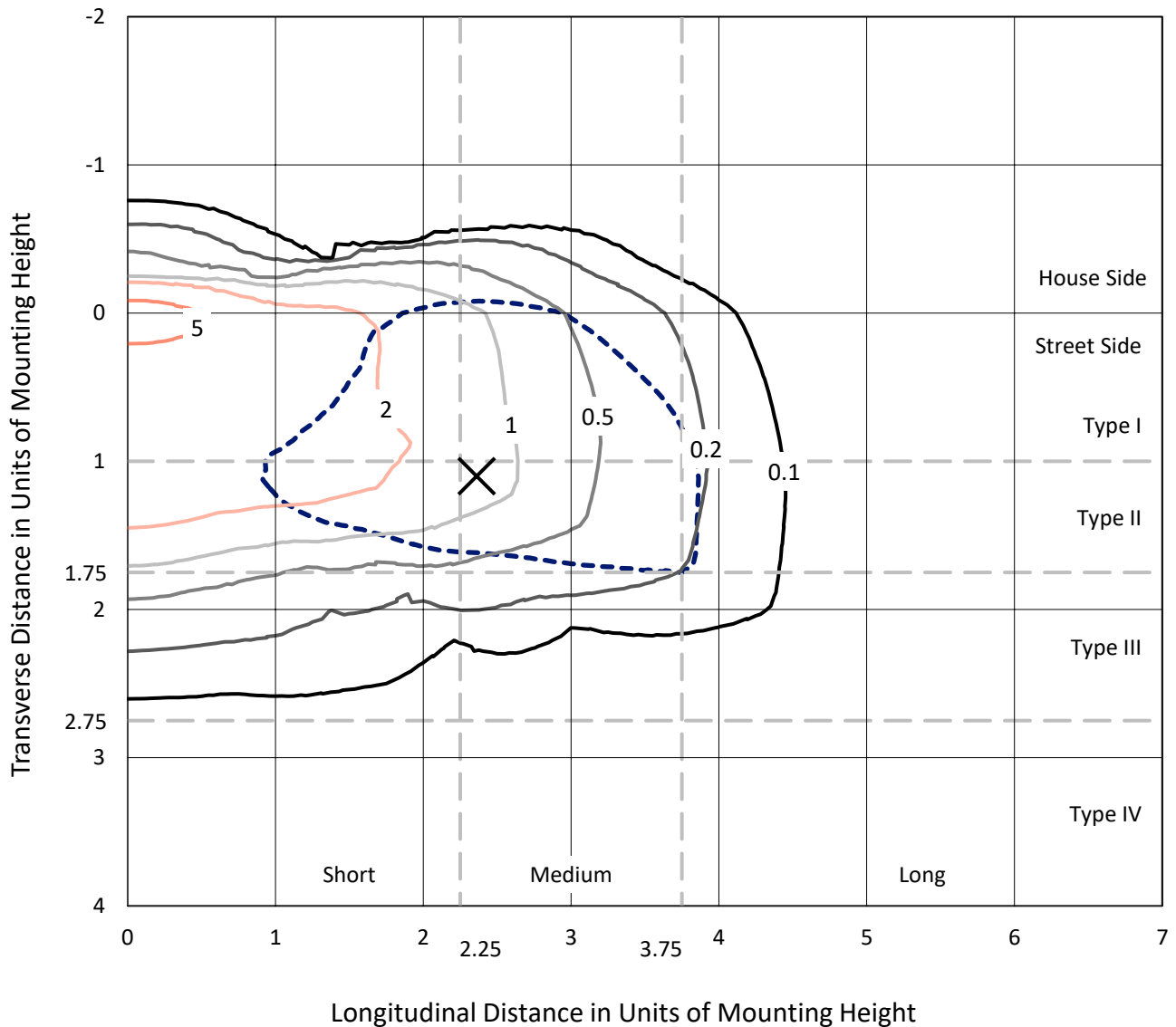
Lumens per Lamp: N/A  
Luminaire Lumens: 17467.9 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

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

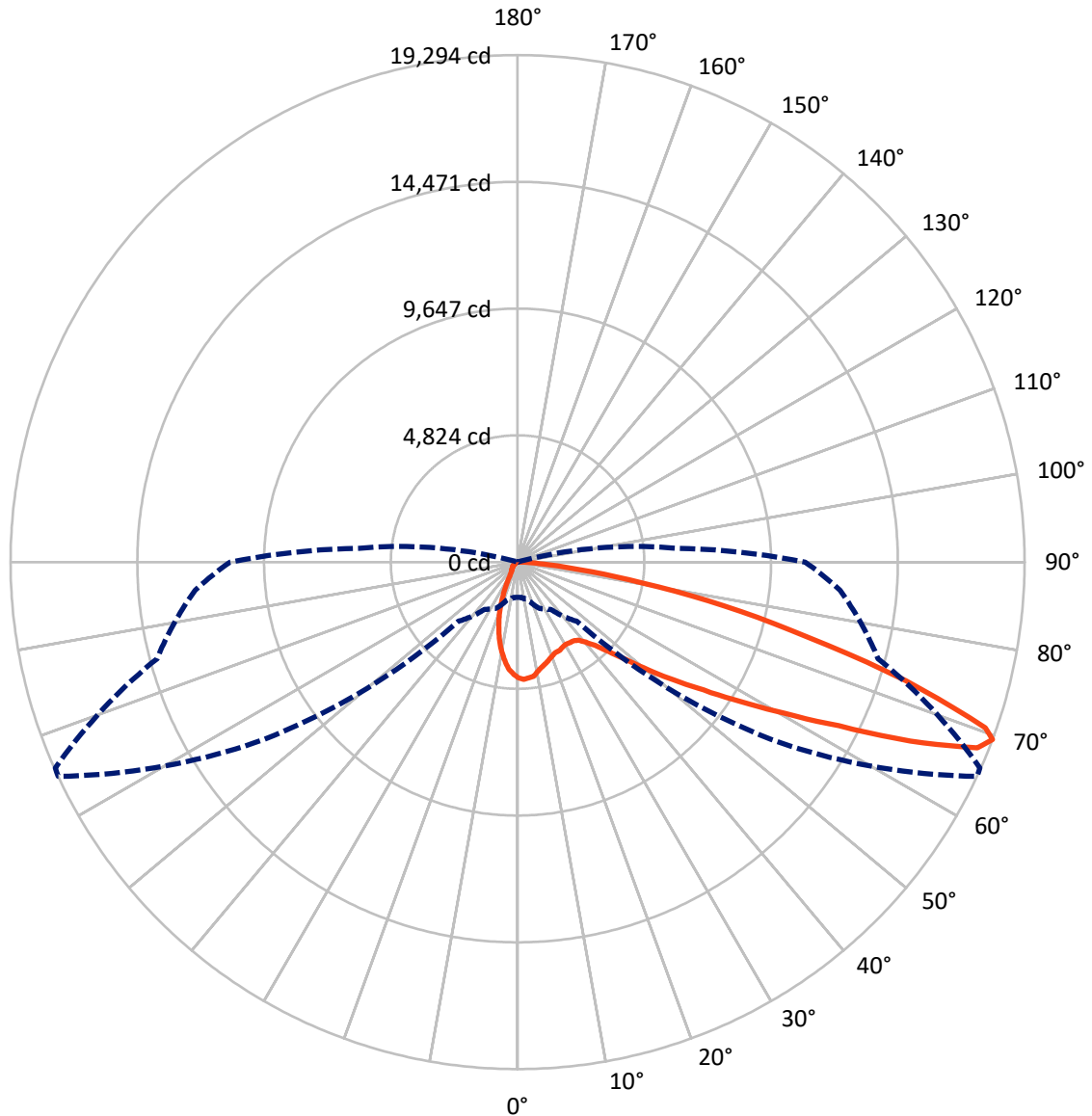
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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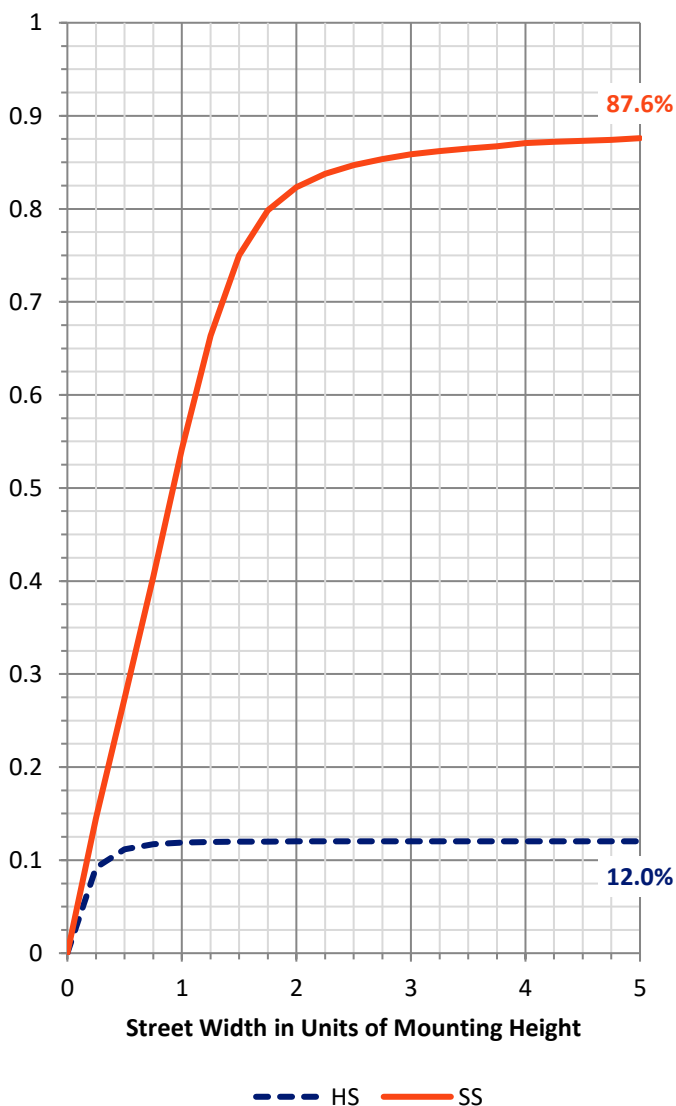
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2119.0	0.0	2119.0
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	15349.0	0.0	15349.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	17467.9	0.0	17467.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.4	2.1
10°-20°	788.5	4.5
20°-30°	1097.8	6.3
30°-40°	1555.7	8.9
40°-50°	2451.8	14.0
50°-60°	3978.4	22.8
60°-70°	4443.0	25.4
70°-80°	2501.9	14.3
80°-90°	290.3	1.7
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°	17467.9	100.0
0°-180°	17467.9	100.0

**Coefficient of Utilization**



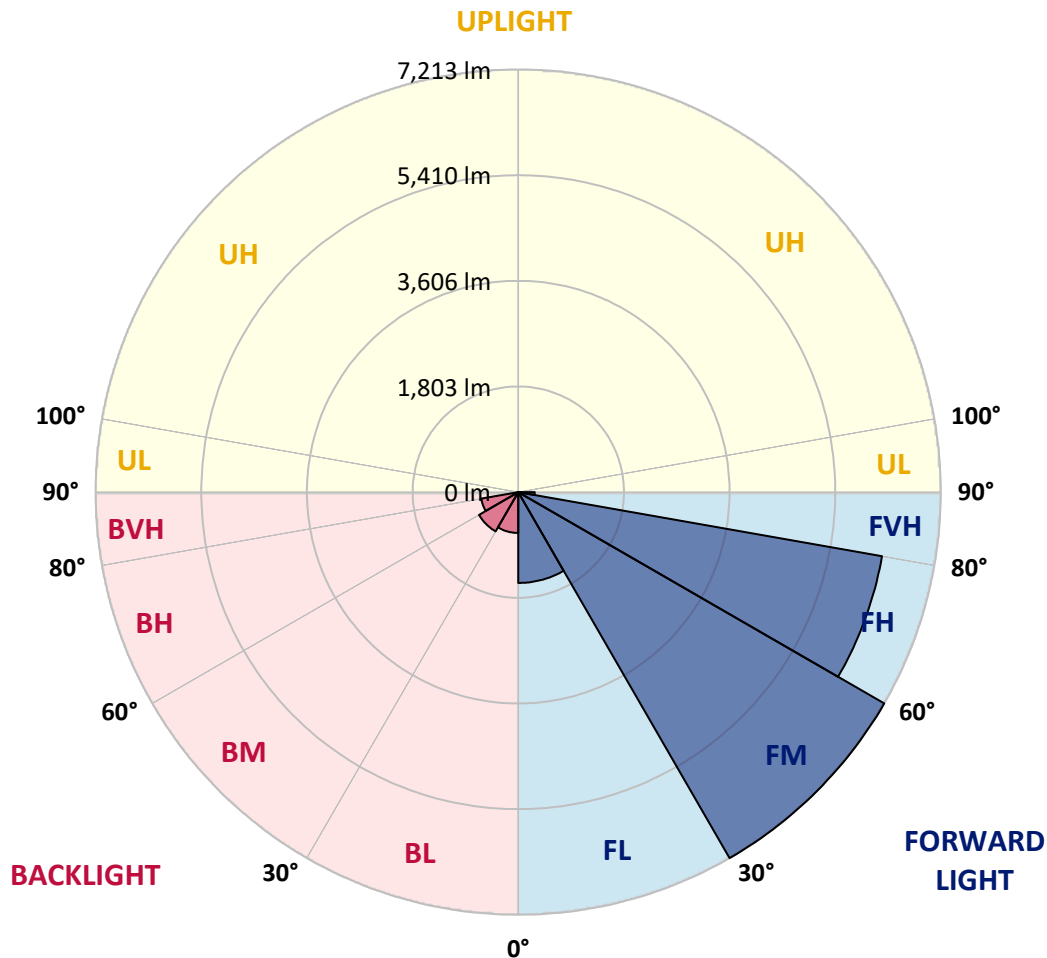
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.1	8.9			
FM (30°-60°)	7212.7	41.3			
FH (60°-80°)	6303.9	36.1			G3/7500
FVH (80°-90°)	282.3	1.6			G3/500
BL (0°-30°)	696.7	4.0	B2/1000		
BM (30°-60°)	773.2	4.4	B1/1000		
BH (60°-80°)	641.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1
2.5°	4241.5	4274.5	4283.9	4316.9	4333.4	4404.1	4444.1	4467.7	4455.9	4481.8	4484.2
5°	3939.9	3921.0	3970.5	4005.8	4081.2	4203.8	4328.7	4425.3	4470.1	4512.5	4505.4
7.5°	3617.0	3607.6	3657.1	3737.2	3805.6	3954.0	4154.3	4392.3	4382.9	4486.5	4517.2
10°	3395.5	3405.0	3421.5	3501.6	3602.9	3753.7	4003.5	4225.0	4274.5	4493.6	4554.9
12.5°	3192.9	3209.4	3240.0	3322.5	3440.3	3595.8	3838.5	4097.7	4173.1	4453.6	4576.1
15°	3126.9	3089.2	3150.5	3211.7	3334.3	3473.3	3678.3	4001.1	4034.1	4406.4	4611.4
17.5°	3072.7	3049.2	3077.4	3126.9	3256.5	3369.6	3562.8	3897.5	3958.7	4387.6	4606.7
20°	3089.2	3068.0	3079.8	3117.5	3176.4	3282.4	3461.5	3798.5	3864.5	4300.4	4599.7
22.5°	3136.3	3152.8	3131.6	3141.1	3159.9	3214.1	3407.3	3727.8	3784.3	4283.9	4639.7
25°	3348.4	3320.1	3291.9	3280.1	3169.3	3192.9	3390.8	3723.1	3763.1	4225.0	4606.7
27.5°	3569.9	3546.4	3534.6	3466.2	3315.4	3244.7	3393.2	3657.1	3711.3	4201.4	4566.7
30°	3838.5	3869.2	3822.0	3739.6	3529.9	3355.5	3419.1	3624.1	3699.5	4111.9	4540.7
32.5°	4121.3	4137.8	4161.4	4100.1	3829.1	3522.8	3496.9	3654.7	3659.5	4111.9	4481.8
35°	4441.8	4418.2	4479.5	4484.2	4246.2	3819.7	3645.3	3676.0	3725.4	4093.0	4460.6
37.5°	4717.5	4757.5	4828.2	4941.3	4696.3	4239.1	3876.2	3774.9	3796.1	4180.2	4477.1
40°	5019.1	5059.1	5219.4	5332.5	5193.5	4710.4	4227.3	4005.8	4022.3	4309.8	4562.0
42.5°	5351.3	5429.1	5620.0	5817.9	5780.2	5308.9	4679.8	4345.2	4338.1	4632.6	4736.3
45°	5801.4	5905.1	6112.4	6341.0	6374.0	5994.6	5283.0	4851.8	4875.3	5054.4	5096.8
47.5°	6428.2	6423.5	6626.1	6880.6	7071.5	6706.3	6004.1	5532.8	5530.4	5721.3	5631.7
50°	7033.8	7036.1	7090.3	7384.9	7879.7	7693.6	6897.1	6437.6	6411.7	6506.0	6362.2
52.5°	7314.2	7281.2	7241.2	7597.0	8501.8	8937.7	8028.2	7462.7	7441.4	7384.9	7347.2
55°	7019.7	7031.4	7029.1	7399.0	8829.4	10250.3	9479.7	8591.4	8556.0	8379.3	8431.1
57.5°	6074.7	6037.0	6119.5	6696.8	8454.7	11145.7	11555.7	10014.6	9922.7	9336.0	9218.2
60°	4521.9	4533.7	4602.0	5283.0	7523.9	11334.2	13542.1	11685.3	11289.4	10009.9	9847.3
62.5°	3157.5	3134.0	3159.9	3541.6	5379.6	10580.1	14885.2	13716.5	13334.8	10775.7	10681.5
65°	2259.8	2229.1	2332.8	2566.1	3230.6	8089.5	15076.1	16421.6	16079.9	11998.7	11772.5
67.5°	1625.9	1621.2	1741.4	2165.5	2295.1	4658.6	13662.3	18872.2	18664.9	13450.2	12437.0
69°	1345.5	1347.8	1463.3	1939.3	2191.4	3181.1	11756.0	19294.0	19256.3	14199.5	12312.1
70°	1173.5	1182.9	1317.2	1805.0	2149.0	2615.6	10134.8	18879.3	18841.6	14345.6	11899.7
72.5°	723.4	730.5	907.2	1446.8	2043.0	2134.9	6060.6	15446.1	15575.7	13676.4	10252.6
75°	346.4	348.7	476.0	1046.2	1969.9	2024.1	3247.1	11397.8	11671.1	11042.0	8011.7
77.5°	183.8	183.8	228.6	556.1	1595.3	1904.0	1927.5	8040.0	8266.2	6982.0	4554.9
80°	91.9	94.3	139.0	289.8	989.7	1866.3	1505.7	4795.2	4917.8	2848.9	1418.5
82.5°	35.3	37.7	66.0	174.4	513.7	1576.4	1321.9	2358.7	2328.1	666.9	346.4
85°	4.7	4.7	23.6	103.7	219.1	695.1	1091.0	985.0	952.0	146.1	167.3
87.5°	0.0	0.0	4.7	30.6	66.0	202.6	421.8	271.0	301.6	40.1	82.5
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°	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1
2.5°	4472.4	4422.9	4347.5	4274.5	4196.7	4102.5	3998.8	3961.1	3895.1	3890.4	3928.1
5°	4467.7	4387.6	4255.6	4100.1	3878.6	3711.3	3529.9	3397.9	3296.6	3230.6	3247.1
7.5°	4491.3	4394.6	4166.1	3831.5	3546.4	3214.1	2933.7	2740.5	2563.7	2476.6	2467.1
10°	4453.6	4324.0	3989.4	3520.4	3101.0	2636.8	2226.8	1967.6	1703.7	1607.1	1611.8
12.5°	4474.8	4293.3	3798.5	3200.0	2622.7	2019.4	1529.3	1175.8	928.4	848.3	838.9
15°	4488.9	4227.3	3614.7	2815.9	2092.5	1376.1	886.0	666.9	589.1	575.0	572.6
17.5°	4434.7	4147.2	3355.5	2436.5	1550.5	836.5	589.1	544.3	530.2	520.8	516.0
20°	4432.3	4100.1	3131.6	2047.7	1034.5	570.2	509.0	492.5	471.3	464.2	464.2
22.5°	4392.3	4001.1	2863.0	1621.2	659.8	490.1	457.1	431.2	407.7	398.2	395.9
25°	4380.5	3885.7	2610.9	1218.2	501.9	438.3	405.3	367.6	339.3	325.2	318.1
27.5°	4347.5	3786.7	2356.4	857.7	438.3	391.2	348.7	308.7	275.7	254.5	252.1
30°	4229.7	3683.0	2073.6	593.8	398.2	346.4	299.3	252.1	219.1	205.0	200.3
32.5°	4180.2	3586.4	1764.9	457.1	362.9	306.3	252.1	209.7	183.8	169.7	167.3
35°	4121.3	3445.0	1465.7	398.2	329.9	266.3	212.1	176.7	155.5	143.7	143.7
37.5°	4128.4	3331.9	1185.3	360.5	294.5	228.6	181.4	150.8	132.0	120.2	120.2
40°	4107.2	3242.4	921.3	327.5	261.6	195.6	153.2	127.2	110.7	99.0	96.6
42.5°	4203.8	3218.8	695.1	299.3	228.6	167.3	132.0	108.4	91.9	77.8	77.8
45°	4366.4	3256.5	542.0	273.3	195.6	143.7	113.1	89.5	73.0	63.6	61.3
47.5°	4799.9	3405.0	424.1	252.1	167.3	124.9	94.3	73.0	58.9	49.5	47.1
50°	5429.1	3737.2	360.5	221.5	141.4	106.0	77.8	56.6	47.1	37.7	35.3
52.5°	6324.5	4295.7	327.5	195.6	117.8	87.2	61.3	44.8	35.3	28.3	25.9
55°	7300.1	4993.2	296.9	164.9	99.0	70.7	49.5	35.3	25.9	18.9	16.5
57.5°	8061.2	5596.4	271.0	136.7	80.1	56.6	37.7	25.9	18.9	11.8	9.4
60°	8893.0	6020.5	238.0	108.4	66.0	42.4	28.3	18.9	14.1	7.1	7.1
62.5°	9750.7	6517.7	195.6	84.8	51.8	33.0	21.2	14.1	9.4	2.4	2.4
65°	10943.0	6906.5	150.8	66.0	40.1	23.6	16.5	11.8	4.7	0.0	0.0
67.5°	11280.0	6715.7	110.7	51.8	28.3	16.5	11.8	7.1	2.4	0.0	0.0
69°	10943.0	6048.8	96.6	44.8	23.6	14.1	9.4	4.7	2.4	0.0	0.0
70°	10328.0	5530.4	84.8	37.7	21.2	14.1	7.1	4.7	2.4	0.0	0.0
72.5°	8638.5	4241.5	66.0	28.3	16.5	11.8	7.1	4.7	0.0	0.0	0.0
75°	6336.3	2620.3	49.5	21.2	14.1	9.4	7.1	4.7	0.0	0.0	0.0
77.5°	3395.5	956.7	35.3	14.1	9.4	7.1	7.1	4.7	0.0	0.0	0.0
80°	930.8	282.8	25.9	9.4	7.1	4.7	4.7	2.4	0.0	0.0	0.0
82.5°	254.5	73.0	16.5	9.4	7.1	4.7	2.4	0.0	0.0	0.0	0.0
85°	136.7	28.3	9.4	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	70.7	9.4	7.1	4.7	4.7	2.4	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)