

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: P484375

Luminaire Tested: **IFLD-S-SA6D-735-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484375  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-735-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

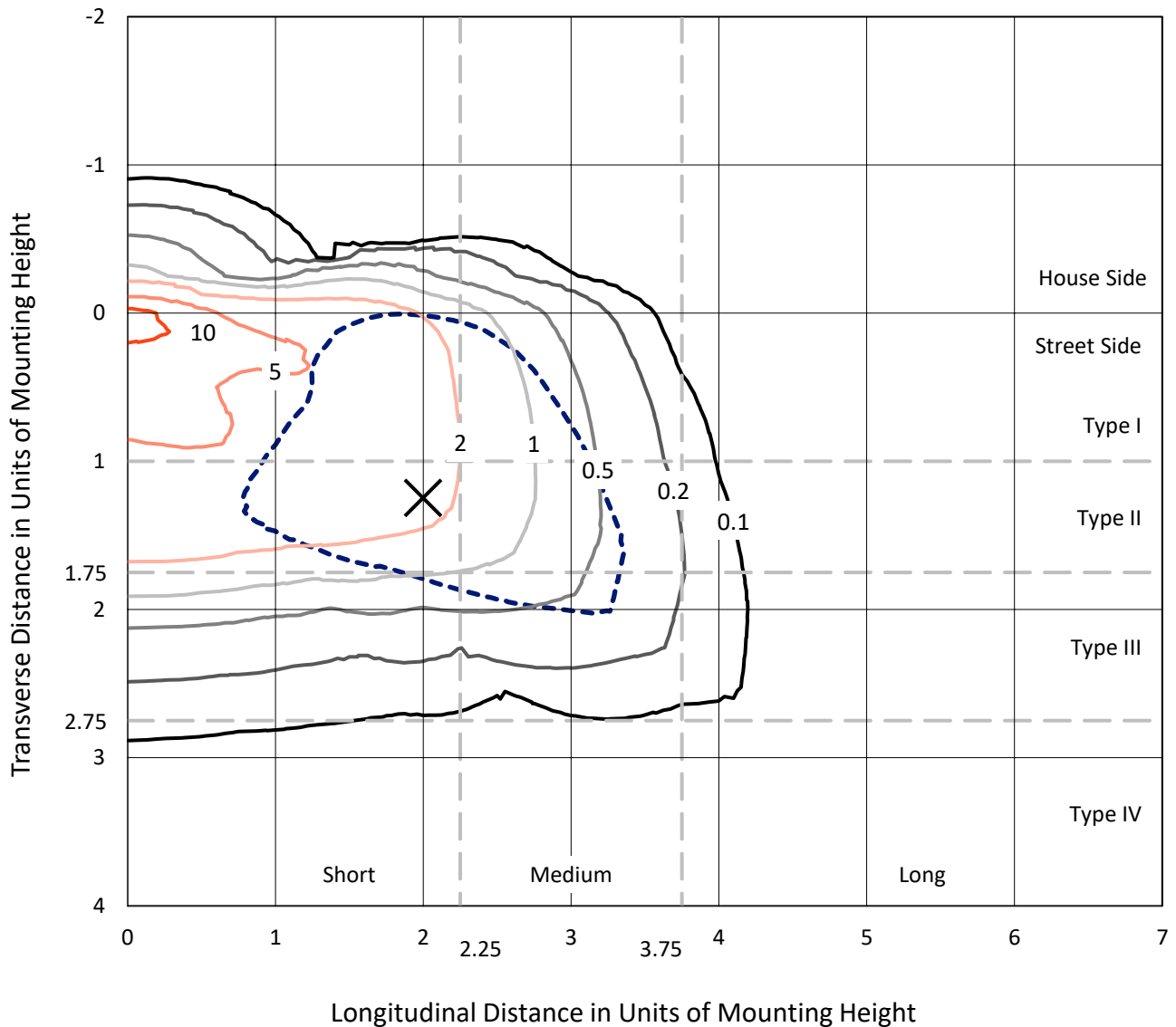
Lumens per Lamp: N/A  
Luminaire Lumens: 37713.1 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2  
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

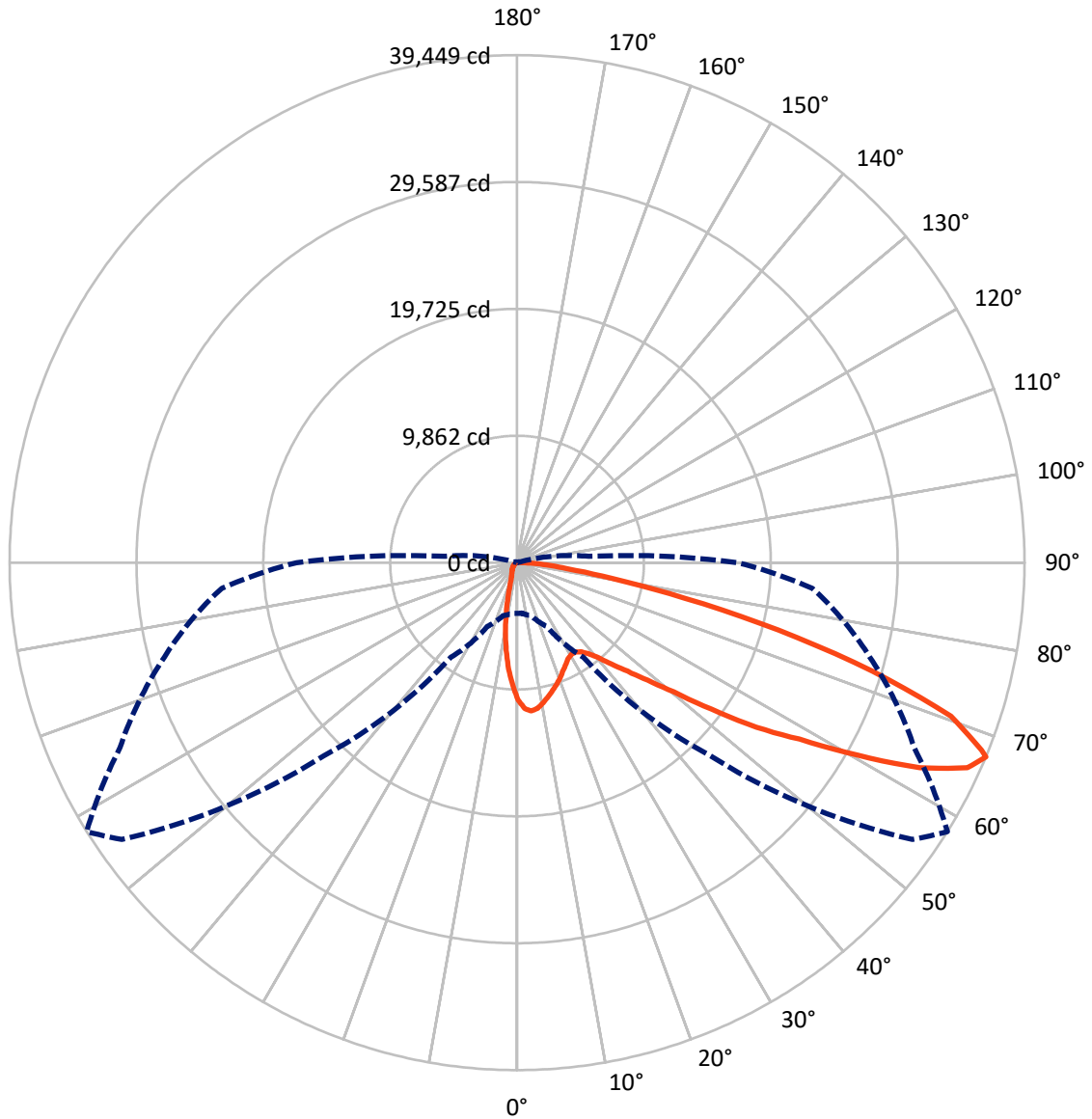
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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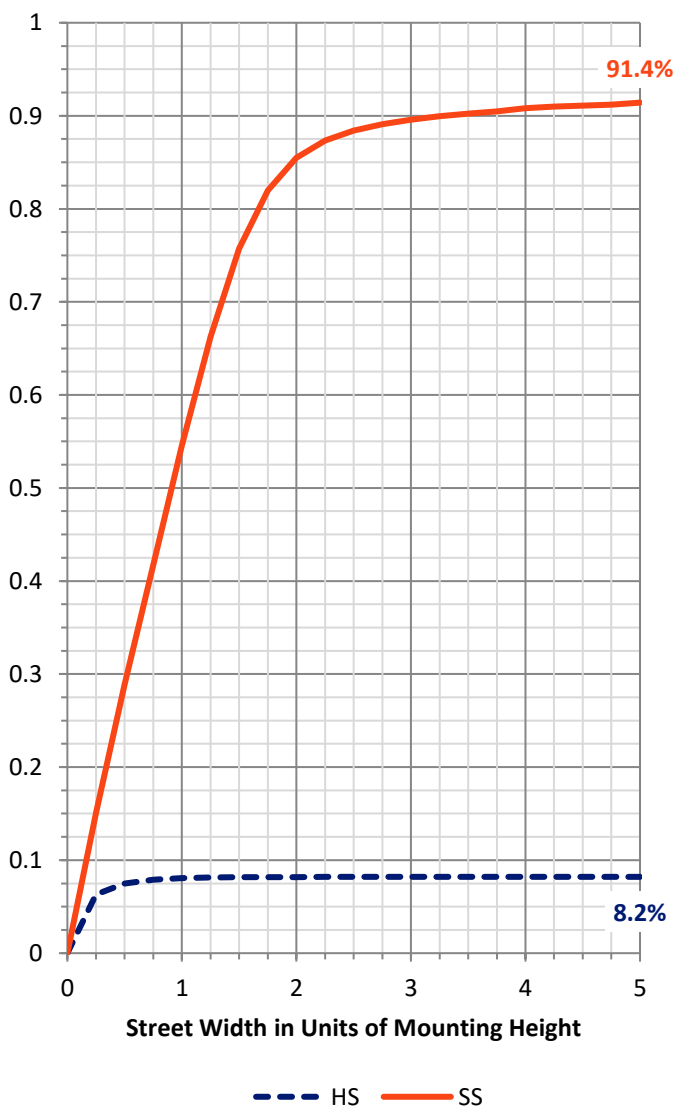
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3117.2	0.0	3117.2
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	34595.9	0.0	34595.9
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	37713.1	0.0	37713.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	847.8	2.2
10°-20°	1758.5	4.7
20°-30°	2333.1	6.2
30°-40°	3232.9	8.6
40°-50°	5275.2	14.0
50°-60°	9272.0	24.6
60°-70°	10269.5	27.2
70°-80°	4255.7	11.3
80°-90°	468.5	1.2
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°	37713.1	100.0
0°-180°	37713.1	100.0

**Coefficient of Utilization**



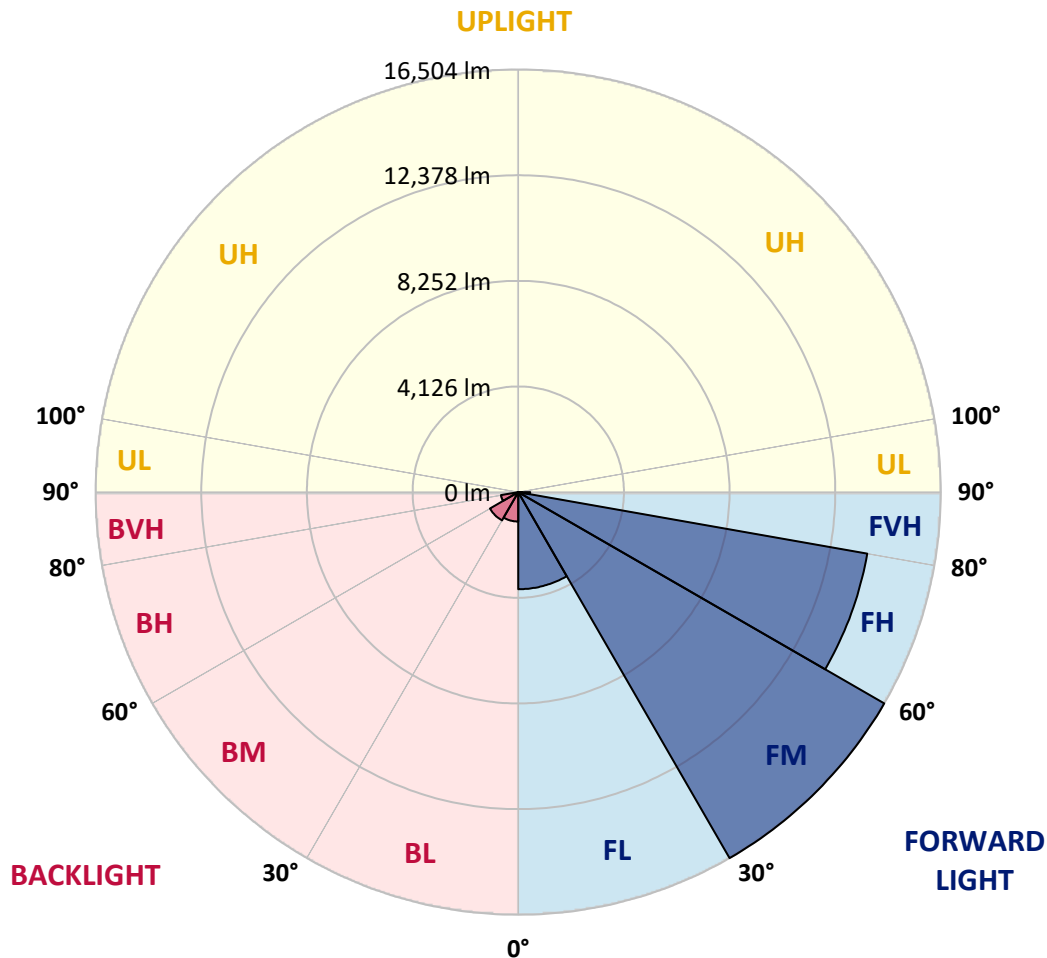
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3791.2	10.1			
FM (30°-60°)	16504.0	43.8			
FH (60°-80°)	13839.9	36.7			G5
FVH (80°-90°)	460.8	1.2			G3/500
BL (0°-30°)	1148.1	3.0	B3/2500		
BM (30°-60°)	1276.1	3.4	B2/2500		
BH (60°-80°)	685.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6
2.5°	11625.9	11666.0	11701.0	11635.9	11691.0	11610.9	11405.6	11360.6	11325.5	11020.1	10844.9
5°	11620.9	11575.9	11610.9	11640.9	11565.8	11625.9	11575.9	11580.9	11445.7	11170.3	10679.6
7.5°	10844.9	10824.8	10844.9	10990.1	11155.3	11285.5	11360.6	11435.7	11345.5	10935.0	10459.3
10°	9798.4	9898.6	9953.6	10214.0	10469.3	10709.7	10945.0	11085.2	11060.2	10894.9	10219.0
12.5°	9067.4	9037.4	9237.7	9407.9	9663.2	10148.9	10559.5	10689.6	10839.9	10609.5	9903.6
15°	8391.5	8311.4	8431.6	8727.0	9162.6	9548.1	10123.9	10319.1	10509.4	10569.5	9733.3
17.5°	7745.6	7785.7	7910.8	8176.2	8586.8	9127.5	9668.2	9948.6	10404.3	10324.1	9478.0
20°	7435.2	7520.3	7565.4	7700.5	7985.9	8526.7	9332.8	9558.1	10043.8	10319.1	9227.6
22.5°	7450.2	7450.2	7345.1	7425.2	7685.5	8106.1	8877.2	9127.5	9898.6	10058.8	9002.3
25°	7610.4	7510.3	7515.3	7420.2	7530.3	7760.6	8466.6	8772.0	9603.2	10083.8	8882.2
27.5°	7730.6	7710.6	7680.5	7655.5	7515.3	7550.3	8196.2	8446.6	9488.0	10053.8	8696.9
30°	8166.2	8076.1	8046.0	7990.9	7805.7	7635.5	7980.9	8296.4	9397.9	10123.9	8591.8
32.5°	8531.7	8546.7	8571.7	8411.5	8251.3	7830.7	8041.0	8291.4	9332.8	10284.1	8696.9
35°	8992.3	9057.4	9067.4	9017.4	8847.1	8431.6	8291.4	8506.7	9442.9	10569.5	8706.9
37.5°	9693.3	9623.2	9813.4	9833.5	9713.3	9162.6	8872.2	8957.3	9768.4	11025.1	9087.4
40°	10148.9	10234.0	10589.5	10809.8	10604.5	10103.8	9713.3	9698.3	10239.0	11741.1	9558.1
42.5°	10654.6	10844.9	11235.4	11711.0	11686.0	11220.4	10824.8	10759.7	11075.2	12777.5	10304.1
45°	11345.5	11515.8	12061.5	12777.5	13168.0	12772.5	12176.7	12046.5	12091.6	14189.4	11575.9
47.5°	12492.1	12447.1	13233.1	13939.1	14580.0	14274.6	14019.2	13638.7	13603.6	15851.7	13333.3
50°	13788.9	13778.9	14479.8	15280.9	16022.0	16617.8	16192.2	15776.6	15786.6	18109.8	15401.1
52.5°	15020.6	15215.8	15971.9	16768.0	18039.7	18680.6	19091.2	18925.9	18129.8	20127.6	17614.1
55°	15671.5	15841.7	16592.7	17964.6	19972.4	21619.6	22731.1	22591.0	21053.8	22400.7	19797.1
57.5°	15055.6	15170.8	16187.2	17984.6	21324.2	24999.2	26065.7	25890.5	24078.0	24138.1	22435.7
60°	12477.1	12657.3	14169.4	16277.3	20798.5	27602.8	30657.0	30391.6	26831.8	26336.1	24133.1
62.5°	8641.8	8762.0	10003.7	12627.3	18305.1	28509.1	34992.9	35138.1	29735.7	28048.4	24638.8
65°	5597.7	5587.7	6298.6	8076.1	12972.8	25765.3	37556.5	38457.7	32539.6	28308.8	24483.5
67°	3955.4	3940.4	4275.9	5477.5	8982.3	21229.1	37511.4	39449.0	34061.7	28383.9	23046.6
67.5°	3650.0	3635.0	3955.4	5036.9	8106.1	19742.0	36950.6	38938.3	34597.4	28278.7	22415.7
70°	2833.9	2793.8	2914.0	3469.8	4721.5	12767.5	31623.3	35769.0	33485.9	25655.1	17899.5
72.5°	2047.8	2092.9	2283.1	2848.9	3705.1	6869.4	24103.0	28924.6	27968.3	19336.5	11375.6
75°	1427.0	1467.0	1772.4	2323.2	3399.7	4165.7	16297.3	20978.7	19481.7	10674.6	4846.6
77.5°	746.0	796.1	1131.6	1857.5	3089.2	3224.4	9738.3	13303.2	10324.1	3800.2	1336.8
80°	345.5	370.5	565.8	1316.8	2583.5	2833.9	5677.8	7400.1	4130.7	851.2	460.6
82.5°	150.2	165.2	260.4	756.0	1832.5	2478.4	3514.8	3880.3	1497.1	275.4	285.4
85°	30.0	35.0	100.1	400.5	886.2	1502.1	2468.4	2303.2	751.0	135.2	225.3
87.5°	0.0	0.0	25.0	115.2	240.3	445.6	1046.4	1046.4	230.3	70.1	85.1
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°	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6	10684.6
2.5°	10689.6	10509.4	10113.9	9748.4	9488.0	9192.6	8802.1	8626.8	8561.7	8471.6	8336.4
5°	10409.3	10189.0	9513.0	8832.1	8086.1	7520.3	6919.5	6569.0	6303.6	6138.4	6083.3
7.5°	10013.7	9563.1	8651.9	7560.4	6594.0	5752.9	4841.6	4225.8	3830.2	3670.0	3519.8
10°	9698.3	9112.5	7725.6	6368.7	5082.0	3850.3	2823.9	2283.1	1872.6	1717.4	1697.3
12.5°	9287.7	8586.8	6859.4	5152.1	3534.8	2293.1	1562.1	1356.9	1241.7	1221.7	1206.7
15°	8947.3	8111.1	6038.3	3990.5	2288.1	1432.0	1216.7	1166.6	1136.6	1126.5	1131.6
17.5°	8716.9	7600.4	5197.1	2904.0	1507.1	1171.6	1121.5	1091.5	1076.5	1071.5	1056.4
20°	8261.3	7169.8	4366.0	2032.8	1176.6	1081.5	1041.4	1016.4	1001.4	996.4	991.4
22.5°	8001.0	6624.1	3534.8	1416.9	1046.4	981.3	951.3	931.3	906.2	891.2	886.2
25°	7740.6	6223.5	2793.8	1101.5	951.3	906.2	861.2	836.1	796.1	776.1	771.1
27.5°	7435.2	5828.0	2152.9	956.3	856.2	811.1	766.0	726.0	675.9	655.9	645.9
30°	7259.9	5442.5	1622.2	856.2	786.1	726.0	670.9	620.9	565.8	530.7	520.7
32.5°	7169.8	5092.0	1216.7	781.1	711.0	645.9	575.8	515.7	465.6	435.6	430.6
35°	7059.7	4751.5	956.3	711.0	640.9	570.8	500.7	440.6	390.5	365.5	355.5
37.5°	7174.8	4551.2	796.1	655.9	585.8	505.7	430.6	370.5	330.5	305.4	300.4
40°	7490.3	4386.0	690.9	605.8	530.7	445.6	375.5	315.4	280.4	260.4	250.3
42.5°	7975.9	4386.0	625.9	555.8	480.7	390.5	320.4	275.4	240.3	220.3	215.3
45°	8857.1	4521.2	570.8	505.7	420.6	335.5	275.4	230.3	195.3	175.2	170.2
47.5°	10093.8	4831.6	525.7	460.6	375.5	295.4	240.3	195.3	160.2	140.2	135.2
50°	11756.1	5537.6	480.7	405.6	335.5	255.3	200.3	155.2	125.2	105.1	100.1
52.5°	13828.9	6539.0	435.6	375.5	285.4	215.3	160.2	125.2	95.1	80.1	75.1
55°	16022.0	7765.6	380.5	335.5	245.3	180.2	130.2	95.1	70.1	60.1	55.1
57.5°	18230.0	8711.9	335.5	290.4	200.3	145.2	105.1	75.1	50.1	40.1	35.0
60°	19401.6	8802.1	290.4	240.3	160.2	115.2	80.1	55.1	35.0	25.0	20.0
62.5°	19581.8	8001.0	250.3	195.3	130.2	90.1	55.1	40.1	20.0	10.0	10.0
65°	18655.6	6669.1	215.3	155.2	100.1	65.1	40.1	25.0	10.0	5.0	0.0
67°	17153.5	5587.7	185.3	130.2	80.1	50.1	30.0	15.0	5.0	0.0	0.0
67.5°	16572.7	5287.2	175.2	120.2	75.1	45.1	25.0	15.0	5.0	0.0	0.0
70°	12862.6	3775.2	130.2	85.1	55.1	35.0	20.0	10.0	0.0	0.0	0.0
72.5°	7880.8	2208.0	100.1	60.1	40.1	25.0	15.0	5.0	0.0	0.0	0.0
75°	3304.5	761.0	85.1	45.1	30.0	15.0	10.0	5.0	0.0	0.0	0.0
77.5°	861.2	285.4	60.1	30.0	20.0	15.0	10.0	5.0	0.0	0.0	0.0
80°	350.5	130.2	40.1	20.0	20.0	15.0	10.0	5.0	0.0	0.0	0.0
82.5°	230.3	60.1	25.0	20.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0
85°	175.2	35.0	15.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0
87.5°	75.1	20.0	15.0	10.0	10.0	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)