

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: P481806

Luminaire Tested: **IFLD-M-SA4D-827-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481806  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-827-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

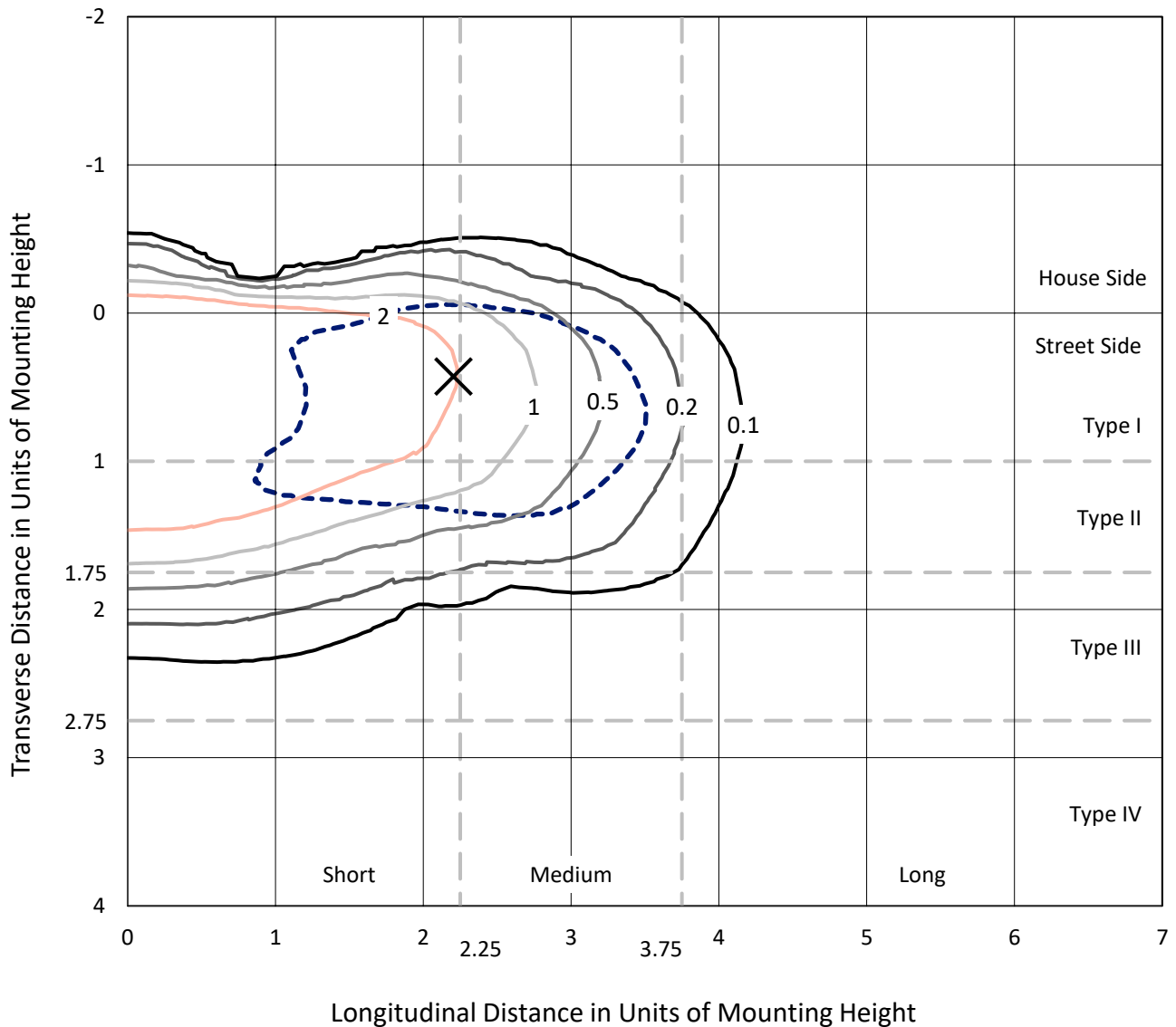
Lumens per Lamp: N/A  
Luminaire Lumens: 16560.9 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 249.7  
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

REPORT NUMBER: P481806  
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

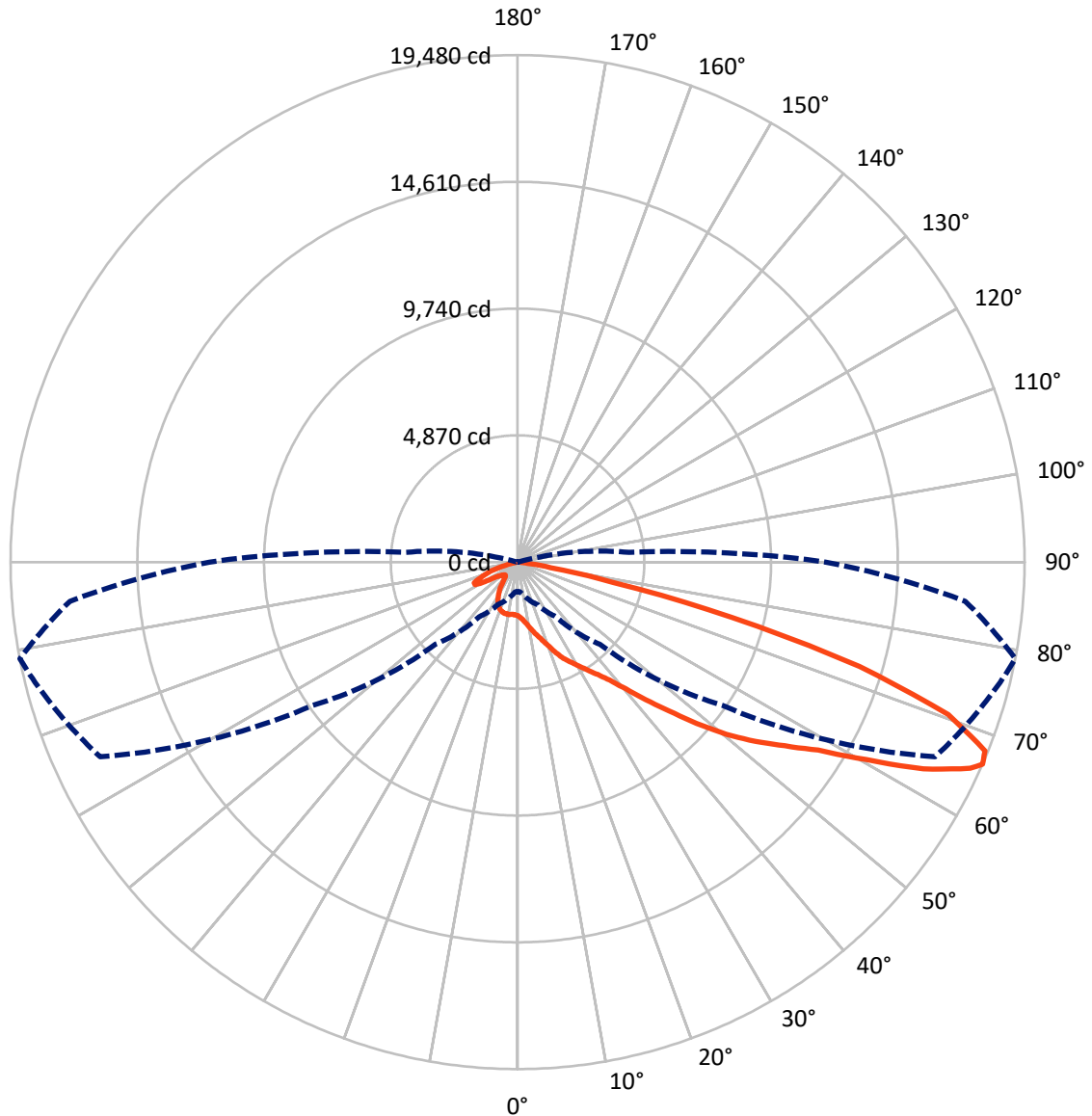
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

REPORT NUMBER: P481806  
CATALOG NUMBER: IFLD-M-SA4D-827-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481806  
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T2-HSS

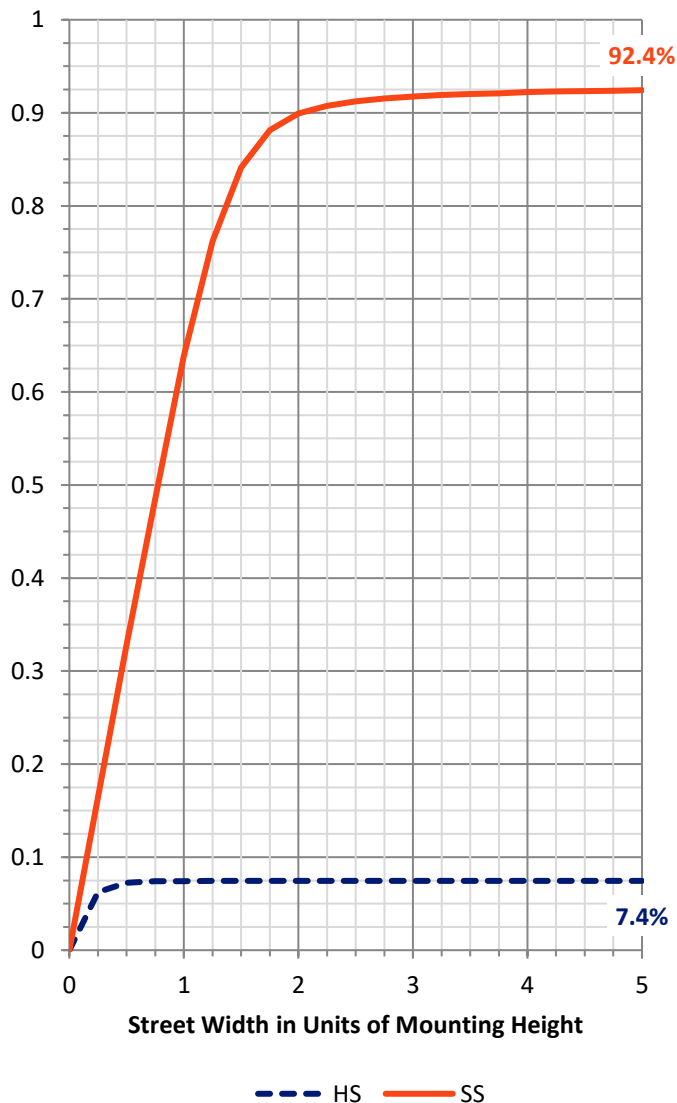
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1243.5	0.0	1243.5
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	15317.4	0.0	15317.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	16560.9	0.0	16560.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.9	1.2
10°-20°	536.3	3.2
20°-30°	890.9	5.4
30°-40°	1530.2	9.2
40°-50°	2772.1	16.7
50°-60°	4381.9	26.5
60°-70°	4458.9	26.9
70°-80°	1700.4	10.3
80°-90°	95.3	0.6
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°	16560.9	100.0
0°-180°	16560.9	100.0

**Coefficient of Utilization**

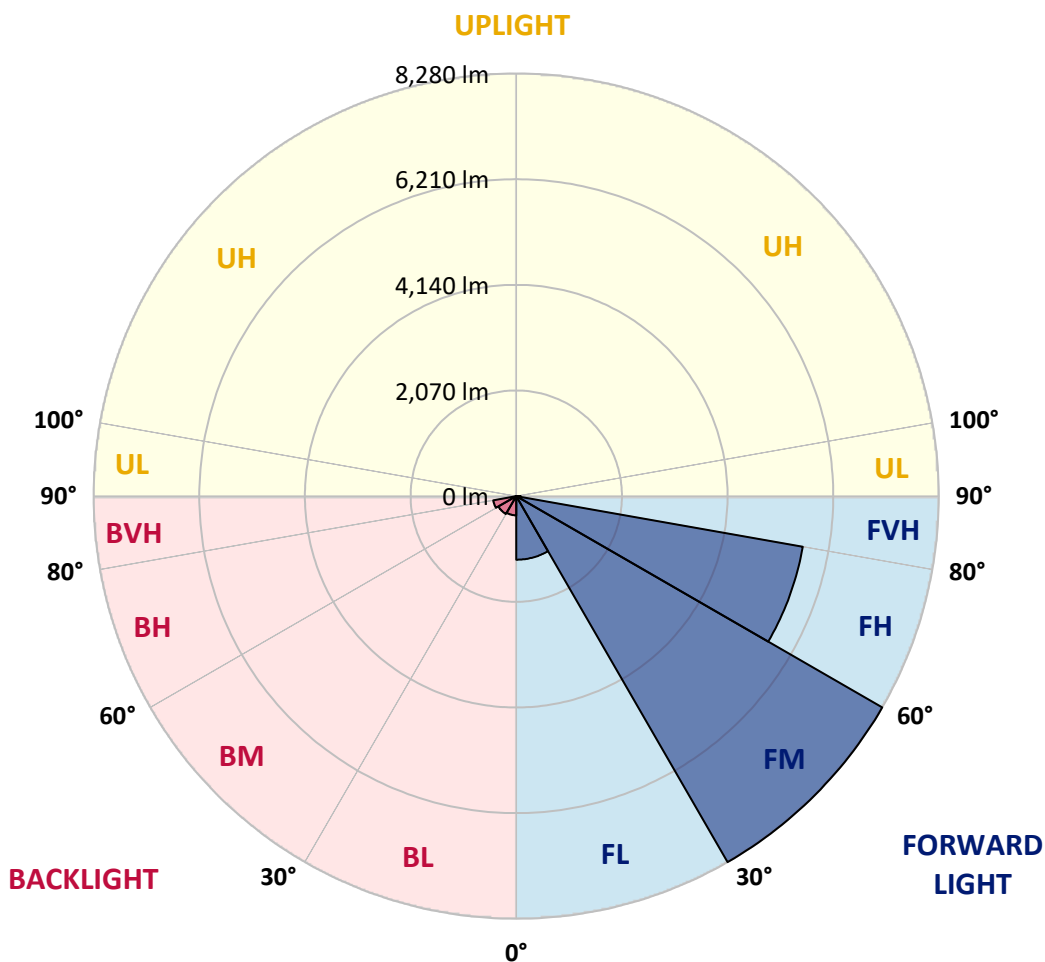


REPORT NUMBER: P481806  
 CATALOG NUMBER: IFLD-M-SA4D-827-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.9	7.5			
FM (30°-60°)	8280.1	50.0			
FH (60°-80°)	5700.9	34.4			G3/7500
FVH (80°-90°)	90.5	0.5			G1/100
BL (0°-30°)	376.1	2.3	B1/500		
BM (30°-60°)	404.2	2.4	B1/1000		
BH (60°-80°)	458.4	2.8	B1/500		G1/500
BVH (80°-90°)	4.9	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 II Short





REPORT NUMBER: P481806

CATALOG NUMBER: IFLD-M-SA4D-827-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4
2.5°	2333.6	2331.0	2320.8	2302.9	2279.9	2272.3	2239.1	2193.1	2167.6	2139.5	2126.8
5°	2494.4	2481.6	2512.3	2499.5	2504.6	2443.3	2402.5	2369.3	2272.3	2234.0	2172.7
7.5°	2530.1	2542.9	2540.4	2560.8	2581.2	2604.2	2576.1	2527.6	2430.6	2374.4	2308.0
10°	2530.1	2525.0	2545.5	2573.6	2632.3	2683.3	2759.9	2696.1	2622.1	2555.7	2435.7
12.5°	2484.2	2476.5	2497.0	2555.7	2660.4	2765.0	2849.3	2910.6	2805.9	2752.3	2596.5
15°	2343.8	2336.1	2420.4	2525.0	2662.9	2834.0	3010.1	3109.7	3038.2	2954.0	2780.4
17.5°	2170.2	2180.4	2269.7	2443.3	2662.9	2867.2	3091.8	3308.9	3298.6	3191.4	3010.1
20°	2111.4	2119.1	2208.5	2333.6	2583.8	2890.1	3219.5	3525.9	3587.1	3459.5	3222.0
22.5°	2223.8	2216.1	2223.8	2300.4	2530.1	2869.7	3303.7	3773.5	3883.3	3783.7	3500.3
25°	2606.7	2601.6	2537.8	2420.4	2499.5	2823.8	3347.1	3936.9	4189.7	4097.8	3725.0
27.5°	3168.4	3148.0	3048.4	2803.3	2642.5	2851.8	3418.6	4095.2	4457.8	4353.1	3926.7
30°	3771.0	3722.5	3592.2	3285.9	3012.7	2956.5	3459.5	4212.7	4756.5	4623.7	4102.9
32.5°	4187.1	4251.0	4210.1	3898.6	3479.9	3199.1	3525.9	4360.7	5032.2	4945.4	4404.1
35°	4830.5	4904.6	4733.5	4457.8	4036.5	3584.6	3666.3	4480.7	5456.0	5310.5	4685.0
37.5°	5642.4	5698.6	5576.0	5052.6	4608.4	4059.5	3954.8	4730.9	5821.1	5752.2	5045.0
40°	6050.9	6321.5	6147.9	5675.6	5198.2	4723.3	4432.2	5024.6	6456.9	6400.7	5542.8
42.5°	6615.2	6750.5	6661.1	6311.3	5813.5	5433.1	5022.0	5596.5	7227.9	7227.9	6216.9
45°	7212.6	7217.7	7212.6	6926.6	6484.9	6288.4	5818.6	6313.9	8057.7	8149.6	7023.7
47.5°	7702.8	7856.0	7843.2	7672.1	7330.0	7256.0	6615.2	7130.9	9099.3	9260.2	7810.0
50°	7955.5	8126.6	8177.7	8267.0	8251.7	8407.4	7485.8	8078.1	9998.0	10393.8	8821.1
52.5°	7886.6	7899.4	8213.4	8565.7	9127.4	9564.0	8535.1	9153.0	11049.9	11440.6	9602.3
55°	7322.4	7273.9	7919.8	8323.2	9484.9	10271.2	9987.8	10493.3	11869.5	12464.4	10409.1
57.5°	6084.1	6096.9	6694.3	7513.9	9219.3	10552.1	11540.1	12244.8	13018.4	13618.4	11542.7
60°	4199.9	4184.6	4853.5	5800.7	7659.4	10028.7	12433.7	14514.5	14555.4	15405.6	13577.5
62.5°	2361.6	2366.7	2874.8	3684.2	5359.0	8195.5	12390.3	16924.7	16751.1	17496.6	15890.7
65°	1337.8	1371.0	1720.8	2182.9	3209.3	5502.0	10656.8	17884.7	18443.8	19107.6	17294.9
66°	1131.0	1154.0	1452.7	1802.5	2560.8	4462.9	9592.1	17698.3	18974.8	19480.4	17266.8
67.5°	875.7	906.4	1156.6	1429.8	1879.1	3089.3	7720.7	16771.5	19071.9	19368.0	16779.1
70°	600.0	620.4	811.9	1085.1	1284.2	1580.4	4616.1	13866.0	17305.1	17555.3	14583.5
72.5°	421.3	431.5	569.3	822.1	988.1	903.8	2290.2	9865.3	13243.1	13730.7	11343.5
75°	303.8	314.0	390.6	589.8	771.0	592.3	1049.3	6301.1	8121.5	8504.5	6832.2
77.5°	219.6	232.3	265.5	380.4	559.1	416.2	515.7	3291.0	3829.7	3763.3	2938.6
80°	132.8	145.5	196.6	245.1	408.5	293.6	283.4	1373.6	1358.3	1289.3	924.2
82.5°	61.3	71.5	104.7	166.0	286.0	204.3	135.3	490.2	428.9	393.2	260.4
85°	17.9	23.0	61.3	125.1	145.5	99.6	81.7	168.5	176.2	150.6	86.8
87.5°	0.0	2.6	28.1	30.6	43.4	33.2	30.6	43.4	81.7	66.4	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481806

CATALOG NUMBER: IFLD-M-SA4D-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4	2060.4
2.5°	2080.8	2062.9	2019.5	1953.1	1894.4	1863.8	1820.4	1782.1	1761.7	1759.1	1756.6
5°	2131.9	2083.4	1978.7	1858.7	1769.3	1672.3	1605.9	1557.4	1511.5	1468.0	1493.6
7.5°	2200.8	2124.2	1953.1	1797.4	1603.4	1478.3	1360.8	1291.9	1251.0	1212.7	1207.6
10°	2308.0	2211.0	1935.3	1654.4	1432.3	1248.5	1128.5	1028.9	972.7	906.4	931.9
12.5°	2453.6	2279.9	1868.9	1524.2	1238.3	1044.2	873.2	712.3	623.0	554.0	556.6
15°	2599.1	2371.9	1807.6	1365.9	1062.1	806.8	556.6	446.8	421.3	405.9	411.1
17.5°	2742.1	2445.9	1713.1	1205.1	860.4	513.2	405.9	383.0	370.2	354.9	354.9
20°	2915.7	2494.4	1595.7	1057.0	592.3	380.4	347.2	331.9	311.5	291.1	293.6
22.5°	3084.2	2535.3	1460.4	868.1	398.3	329.4	291.1	270.6	252.8	232.3	232.3
25°	3252.7	2548.0	1284.2	623.0	321.7	263.0	227.2	199.1	181.3	163.4	166.0
27.5°	3367.6	2468.9	1118.3	398.3	257.9	199.1	158.3	135.3	120.0	102.1	102.1
30°	3434.0	2323.3	939.6	280.8	194.0	135.3	94.5	71.5	56.2	43.4	40.9
32.5°	3500.3	2205.9	737.9	214.5	127.7	71.5	35.7	12.8	0.0	0.0	0.0
35°	3633.1	2073.1	495.3	120.0	43.4	2.6	0.0	0.0	0.0	0.0	0.0
37.5°	3717.4	1889.3	227.2	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3929.3	1797.4	56.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4273.9	1733.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4651.8	1708.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5154.8	1777.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5685.8	1963.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6267.9	2139.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6776.0	2351.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7710.4	2851.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9387.8	3834.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11277.2	4565.0	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11969.1	4547.1	48.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11846.5	4296.9	48.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11210.8	3816.9	43.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9627.8	3153.1	43.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7340.2	2456.1	40.9	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4429.7	1307.2	33.2	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1764.2	459.6	25.5	10.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	477.4	137.9	15.3	10.2	7.7	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	125.1	51.1	12.8	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0
85°	48.5	20.4	10.2	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0
87.5°	15.3	7.7	7.7	5.1	5.1	2.6	2.6	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)