

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: P484145

Luminaire Tested: **IFLD-M-SA4C-827-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484145  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-827-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 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: 17201.9 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

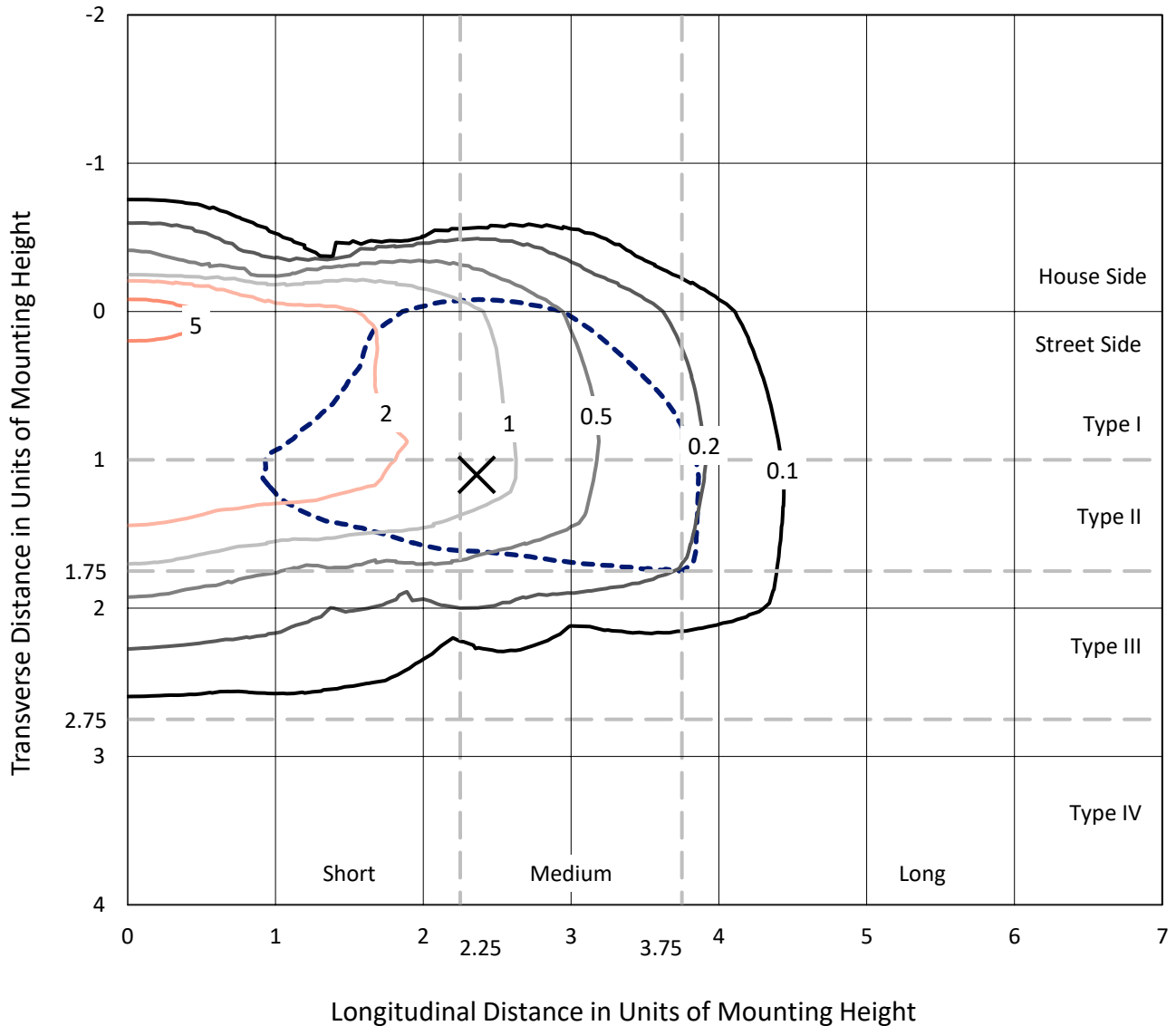
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

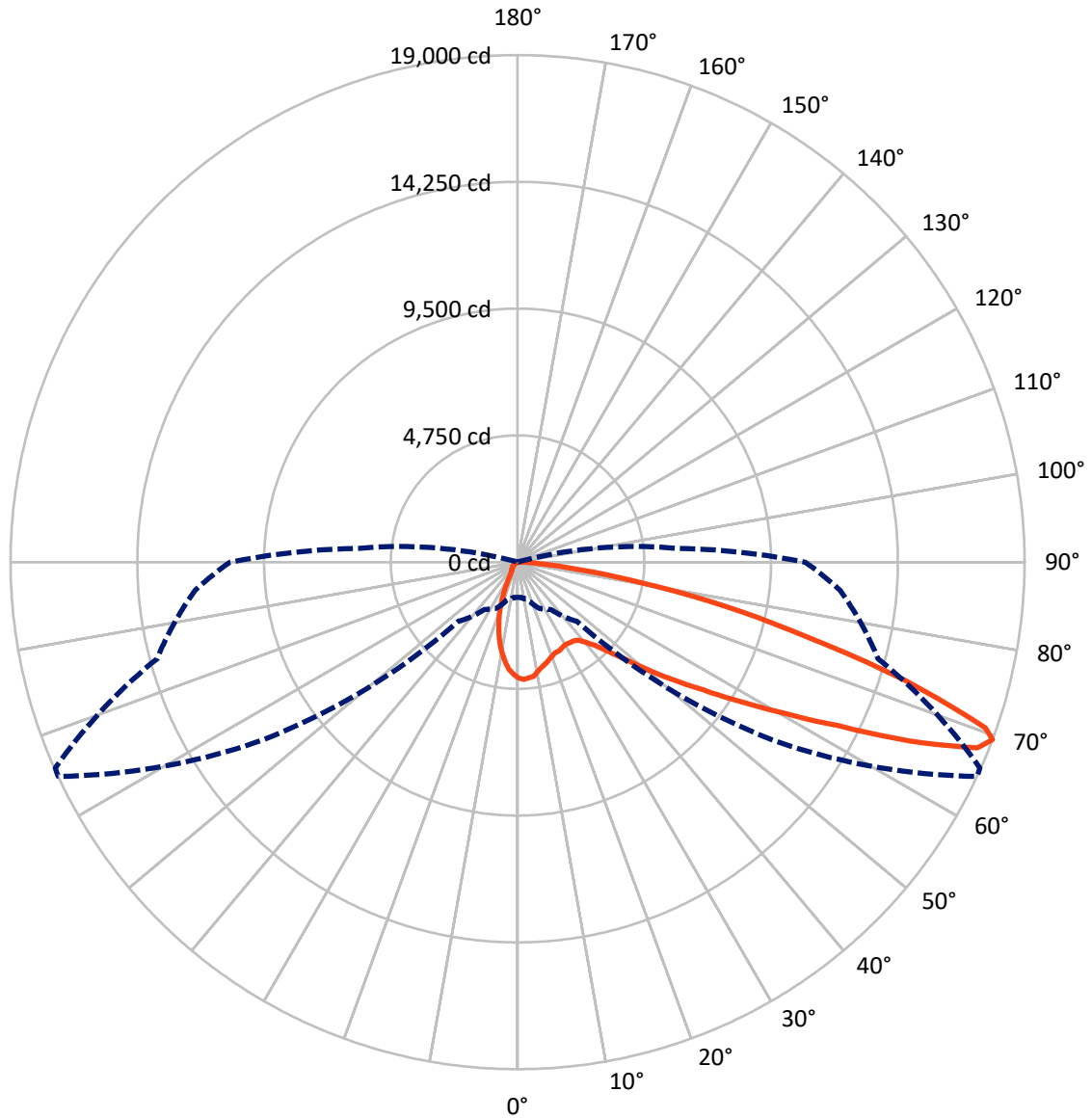
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P484145  
CATALOG NUMBER: IFLD-M-SA4C-827-U-SL2-HSS

### Luminous Intensity Polar Plot



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

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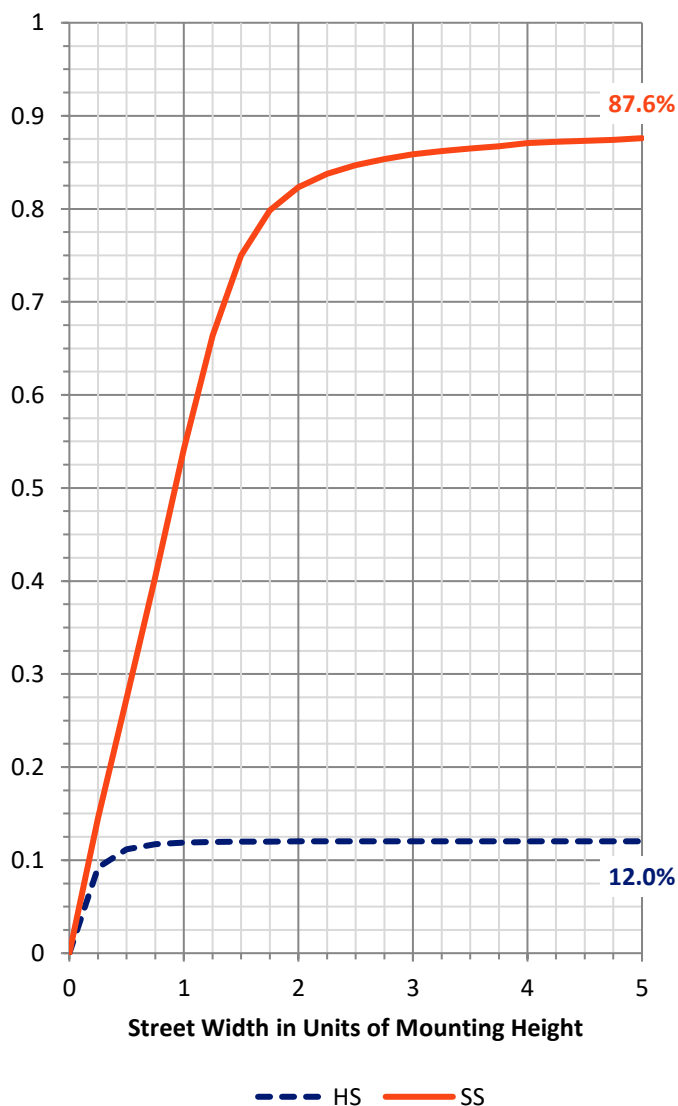
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2086.7	0.0	2086.7
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	15115.2	0.0	15115.2
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	17201.9	0.0	17201.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.9	2.1
10°-20°	776.5	4.5
20°-30°	1081.1	6.3
30°-40°	1532.0	8.9
40°-50°	2414.4	14.0
50°-60°	3917.8	22.8
60°-70°	4375.4	25.4
70°-80°	2463.8	14.3
80°-90°	285.9	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°	17201.9	100.0
0°-180°	17201.9	100.0

**Coefficient of Utilization**

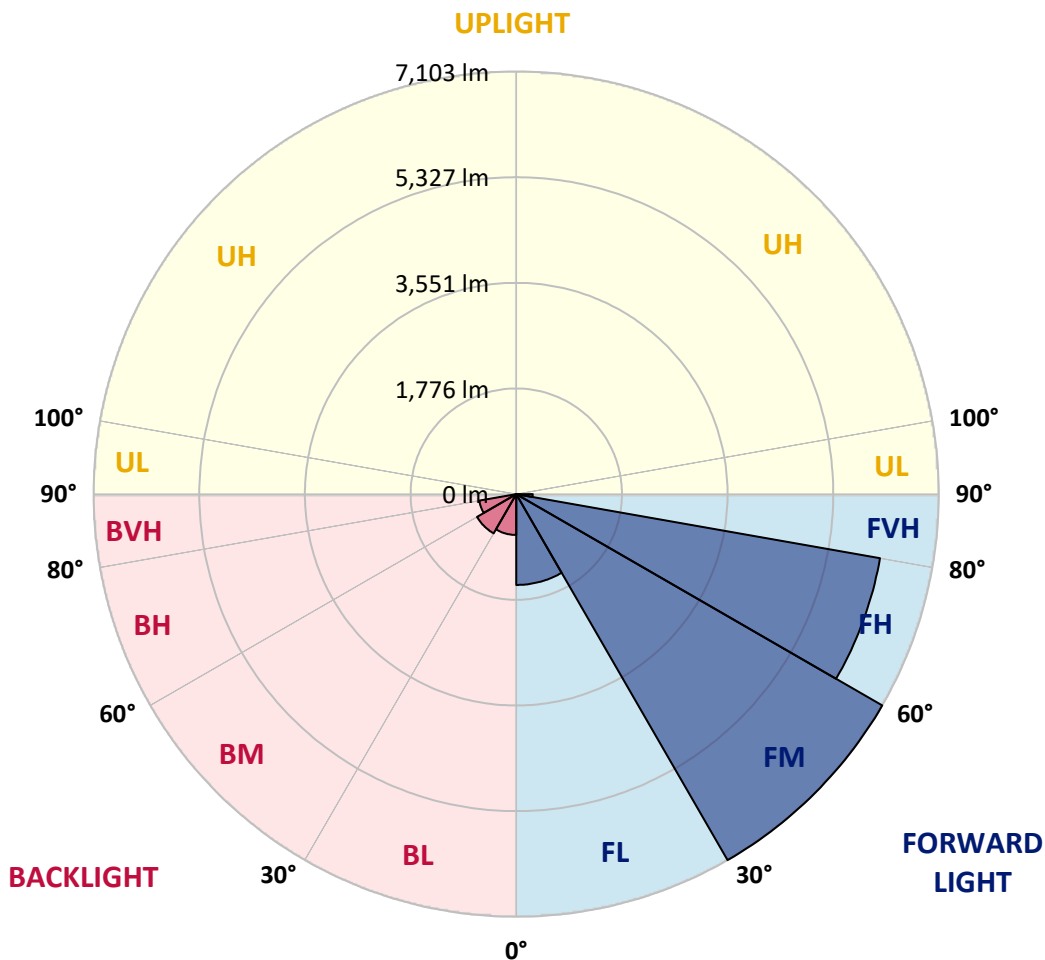


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 CATALOG NUMBER: IFLD-M-SA4C-827-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1526.5	8.9			
FM (30°-60°)	7102.8	41.3			
FH (60°-80°)	6207.9	36.1			G3/7500
FVH (80°-90°)	278.0	1.6			G3/500
BL (0°-30°)	686.0	4.0	B2/1000		
BM (30°-60°)	761.4	4.4	B1/1000		
BH (60°-80°)	631.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0
2.5°	4176.9	4209.4	4218.7	4251.1	4267.4	4337.0	4376.4	4399.7	4388.0	4413.6	4415.9
5°	3879.9	3861.3	3910.0	3944.8	4019.1	4139.8	4262.7	4357.9	4402.0	4443.7	4436.8
7.5°	3562.0	3552.7	3601.4	3680.3	3747.6	3893.8	4091.0	4325.4	4316.1	4418.2	4448.4
10°	3343.8	3353.1	3369.4	3448.3	3548.0	3696.5	3942.5	4160.6	4209.4	4425.2	4485.5
12.5°	3144.3	3160.5	3190.7	3271.9	3387.9	3541.1	3780.1	4035.3	4109.6	4385.7	4506.4
15°	3079.3	3042.2	3102.5	3162.8	3283.5	3420.4	3622.3	3940.2	3972.7	4339.3	4541.2
17.5°	3025.9	3002.7	3030.6	3079.3	3206.9	3318.3	3508.6	3838.1	3898.4	4320.8	4536.6
20°	3042.2	3021.3	3032.9	3070.0	3128.0	3232.4	3408.8	3740.6	3805.6	4234.9	4529.6
22.5°	3088.6	3104.8	3083.9	3093.2	3111.8	3165.2	3355.4	3671.0	3726.7	4218.7	4569.0
25°	3297.4	3269.6	3241.7	3230.1	3121.1	3144.3	3339.2	3666.4	3705.8	4160.6	4536.6
27.5°	3515.5	3492.3	3480.7	3413.4	3264.9	3195.3	3341.5	3601.4	3654.8	4137.4	4497.1
30°	3780.1	3810.2	3763.8	3682.6	3476.1	3304.4	3367.0	3568.9	3643.2	4049.3	4471.6
32.5°	4058.5	4074.8	4098.0	4037.7	3770.8	3469.1	3443.6	3599.1	3603.7	4049.3	4413.6
35°	4374.1	4350.9	4411.3	4415.9	4181.5	3761.5	3589.8	3620.0	3668.7	4030.7	4392.7
37.5°	4645.6	4685.1	4754.7	4866.1	4624.7	4174.6	3817.2	3717.4	3738.3	4116.6	4408.9
40°	4942.6	4982.1	5139.9	5251.3	5114.4	4638.7	4163.0	3944.8	3961.1	4244.2	4492.5
42.5°	5269.8	5346.4	5534.4	5729.3	5692.2	5228.1	4608.5	4279.0	4272.0	4562.1	4664.2
45°	5713.1	5815.2	6019.4	6244.4	6276.9	5903.3	5202.5	4777.9	4801.1	4977.5	5019.2
47.5°	6330.3	6325.7	6525.2	6775.8	6963.8	6604.1	5912.6	5448.5	5446.2	5634.2	5546.0
50°	6926.7	6929.0	6982.4	7272.4	7759.7	7576.4	6792.1	6339.6	6314.1	6406.9	6265.3
52.5°	7202.8	7170.3	7130.9	7481.3	8372.3	8801.6	7905.9	7349.0	7328.1	7272.4	7235.3
55°	6912.7	6924.3	6922.0	7286.3	8694.9	10094.1	9335.3	8460.5	8425.7	8251.7	8302.7
57.5°	5982.2	5945.1	6026.3	6594.8	8325.9	10975.9	11379.7	9862.1	9771.6	9193.8	9077.8
60°	4453.0	4464.6	4531.9	5202.5	7409.3	11161.6	13335.9	11507.3	11117.5	9857.4	9697.3
62.5°	3109.5	3086.3	3111.8	3487.7	5297.7	10419.0	14658.5	13507.6	13131.7	10611.6	10518.8
65°	2225.4	2195.2	2297.3	2527.0	3181.4	7966.2	14846.5	16171.5	15835.0	11815.9	11593.2
67.5°	1601.1	1596.5	1714.8	2132.5	2260.2	4587.6	13454.2	18584.8	18380.6	13245.4	12247.6
69°	1325.0	1327.3	1441.0	1909.8	2158.1	3132.7	11576.9	19000.2	18963.1	13983.3	12124.6
70°	1155.6	1164.9	1297.2	1777.5	2116.3	2575.7	9980.4	18591.8	18554.7	14127.2	11718.5
72.5°	712.4	719.4	893.4	1424.8	2011.9	2102.4	5968.3	15210.8	15338.4	13468.1	10096.5
75°	341.1	343.4	468.7	1030.3	1939.9	1993.3	3197.6	11224.2	11493.4	10873.8	7889.7
77.5°	181.0	181.0	225.1	547.6	1571.0	1875.0	1898.2	7917.5	8140.3	6875.6	4485.5
80°	90.5	92.8	136.9	285.4	974.6	1837.8	1482.8	4722.2	4842.9	2805.5	1396.9
82.5°	34.8	37.1	65.0	171.7	505.9	1552.4	1301.8	2322.8	2292.6	656.7	341.1
85°	4.6	4.6	23.2	102.1	215.8	684.5	1074.4	970.0	937.5	143.9	164.8
87.5°	0.0	0.0	4.6	30.2	65.0	199.6	415.4	266.9	297.0	39.4	81.2
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°	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0	4337.0
2.5°	4404.3	4355.6	4281.3	4209.4	4132.8	4040.0	3937.9	3900.7	3835.8	3831.1	3868.3
5°	4399.7	4320.8	4190.8	4037.7	3819.5	3654.8	3476.1	3346.1	3246.4	3181.4	3197.6
7.5°	4422.9	4327.7	4102.6	3773.1	3492.3	3165.2	2889.0	2698.7	2524.7	2438.8	2429.6
10°	4385.7	4258.1	3928.6	3466.8	3053.8	2596.6	2192.9	1937.6	1677.7	1582.6	1587.2
12.5°	4406.6	4227.9	3740.6	3151.2	2582.7	1988.7	1506.0	1157.9	914.3	835.4	826.1
15°	4420.5	4163.0	3559.6	2773.0	2060.6	1355.2	872.5	656.7	580.1	566.2	563.9
17.5°	4367.2	4084.1	3304.4	2399.4	1526.9	823.8	580.1	536.0	522.1	512.8	508.2
20°	4364.8	4037.7	3083.9	2016.5	1018.7	561.6	501.2	485.0	464.1	457.1	457.1
22.5°	4325.4	3940.2	2819.4	1596.5	649.7	482.7	450.2	424.6	401.4	392.2	389.8
25°	4313.8	3826.5	2571.1	1199.7	494.3	431.6	399.1	362.0	334.2	320.2	313.3
27.5°	4281.3	3729.0	2320.5	844.7	431.6	385.2	343.4	304.0	271.5	250.6	248.3
30°	4165.3	3626.9	2042.0	584.8	392.2	341.1	294.7	248.3	215.8	201.9	197.2
32.5°	4116.6	3531.8	1738.0	450.2	357.4	301.7	248.3	206.5	181.0	167.1	164.8
35°	4058.5	3392.6	1443.3	392.2	324.9	262.2	208.8	174.0	153.2	141.5	141.5
37.5°	4065.5	3281.2	1167.2	355.0	290.1	225.1	178.7	148.5	129.9	118.3	118.3
40°	4044.6	3193.0	907.3	322.5	257.6	192.6	150.8	125.3	109.1	97.5	95.1
42.5°	4139.8	3169.8	684.5	294.7	225.1	164.8	129.9	106.7	90.5	76.6	76.6
45°	4299.9	3206.9	533.7	269.2	192.6	141.5	111.4	88.2	71.9	62.7	60.3
47.5°	4726.8	3353.1	417.7	248.3	164.8	123.0	92.8	71.9	58.0	48.7	46.4
50°	5346.4	3680.3	355.0	218.1	139.2	104.4	76.6	55.7	46.4	37.1	34.8
52.5°	6228.2	4230.3	322.5	192.6	116.0	85.9	60.3	44.1	34.8	27.8	25.5
55°	7188.9	4917.1	292.4	162.4	97.5	69.6	48.7	34.8	25.5	18.6	16.2
57.5°	7938.4	5511.2	266.9	134.6	78.9	55.7	37.1	25.5	18.6	11.6	9.3
60°	8757.5	5928.9	234.4	106.7	65.0	41.8	27.8	18.6	13.9	7.0	7.0
62.5°	9602.2	6418.5	192.6	83.5	51.1	32.5	20.9	13.9	9.3	2.3	2.3
65°	10776.4	6801.4	148.5	65.0	39.4	23.2	16.2	11.6	4.6	0.0	0.0
67.5°	11108.2	6613.4	109.1	51.1	27.8	16.2	11.6	7.0	2.3	0.0	0.0
69°	10776.4	5956.7	95.1	44.1	23.2	13.9	9.3	4.6	2.3	0.0	0.0
70°	10170.7	5446.2	83.5	37.1	20.9	13.9	7.0	4.6	2.3	0.0	0.0
72.5°	8506.9	4176.9	65.0	27.8	16.2	11.6	7.0	4.6	0.0	0.0	0.0
75°	6239.8	2580.4	48.7	20.9	13.9	9.3	7.0	4.6	0.0	0.0	0.0
77.5°	3343.8	942.1	34.8	13.9	9.3	7.0	7.0	4.6	0.0	0.0	0.0
80°	916.6	278.5	25.5	9.3	7.0	4.6	4.6	2.3	0.0	0.0	0.0
82.5°	250.6	71.9	16.2	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0
85°	134.6	27.8	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	69.6	9.3	7.0	4.6	4.6	2.3	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)