

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: P484516

Luminaire Tested: **IFLD-S-SA3D-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484516
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

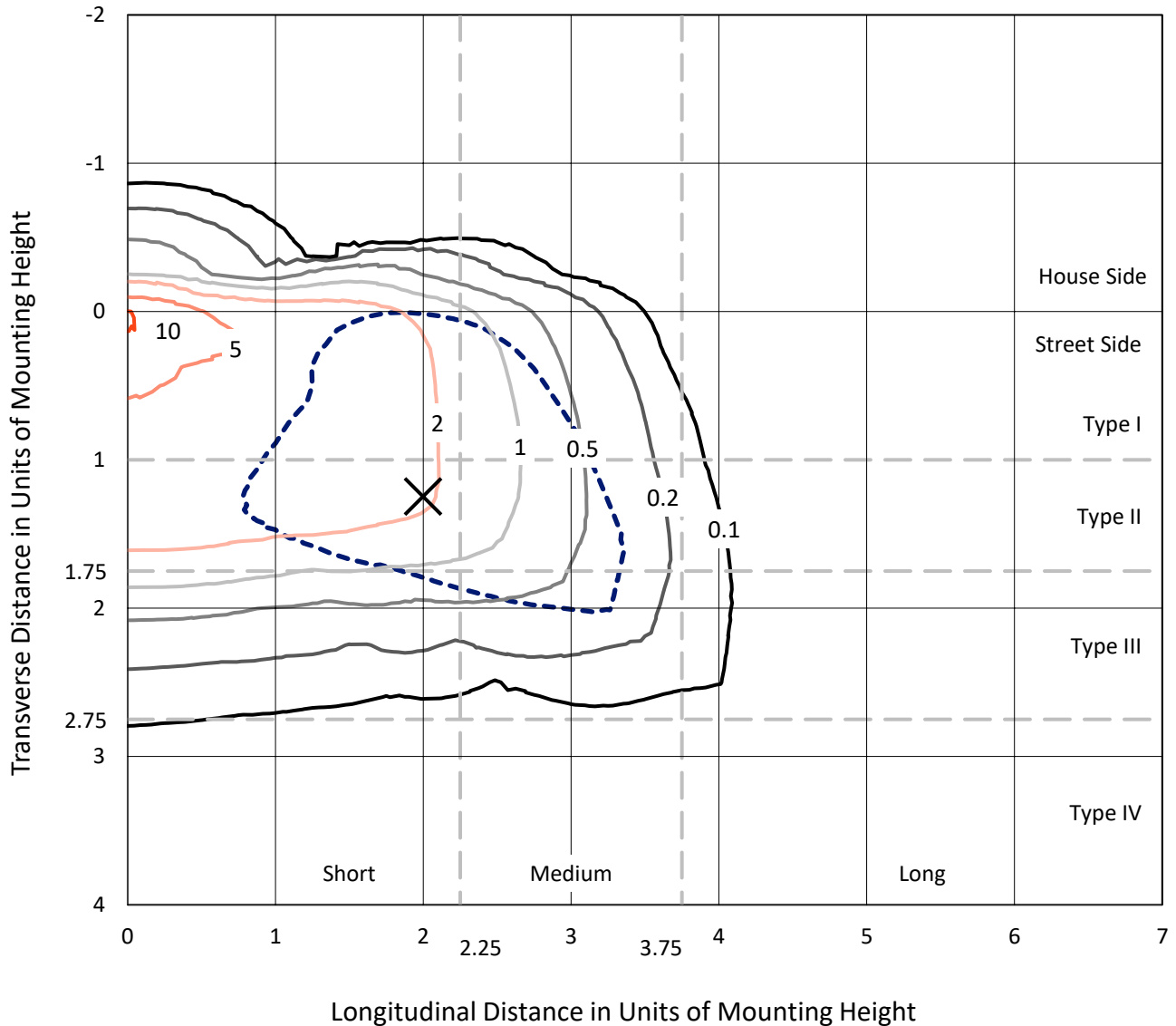
Lumens per Lamp: N/A
Luminaire Lumens: 14328.2 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

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

REPORT NUMBER: P484516
 CATALOG NUMBER: IFLD-S-SA3D-827-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

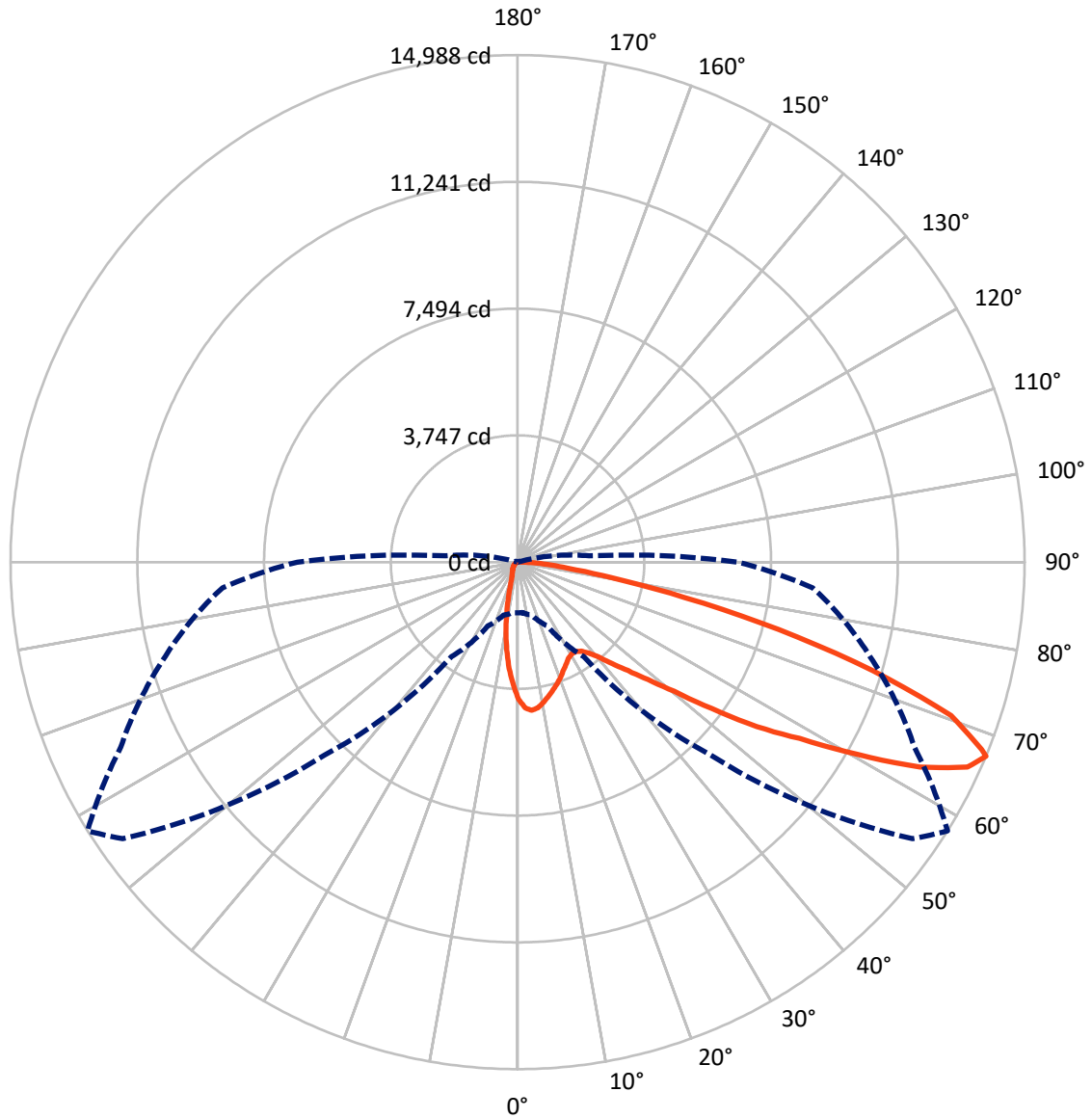
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

REPORT NUMBER: P484516
CATALOG NUMBER: IFLD-S-SA3D-827-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484516
 CATALOG NUMBER: IFLD-S-SA3D-827-U-SL3-HSS

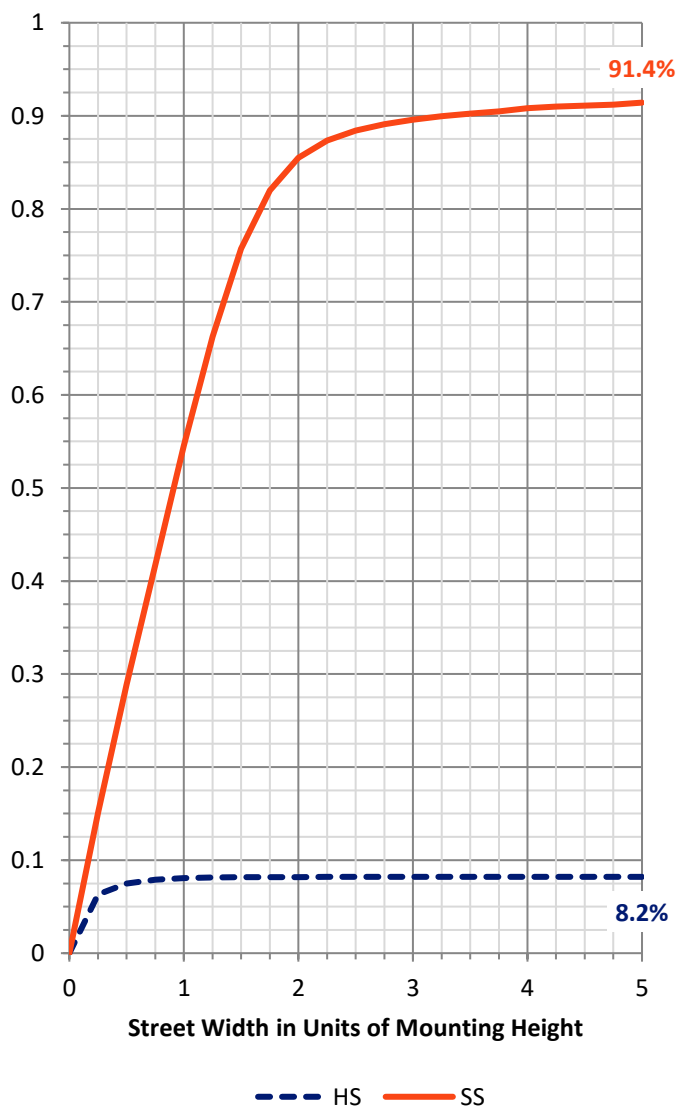
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1184.3	0.0	1184.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	13143.9	0.0	13143.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	14328.2	0.0	14328.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.1	2.2
10°-20°	668.1	4.7
20°-30°	886.4	6.2
30°-40°	1228.3	8.6
40°-50°	2004.2	14.0
50°-60°	3522.7	24.6
60°-70°	3901.7	27.2
70°-80°	1616.9	11.3
80°-90°	178.0	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°	14328.2	100.0
0°-180°	14328.2	100.0

Coefficient of Utilization



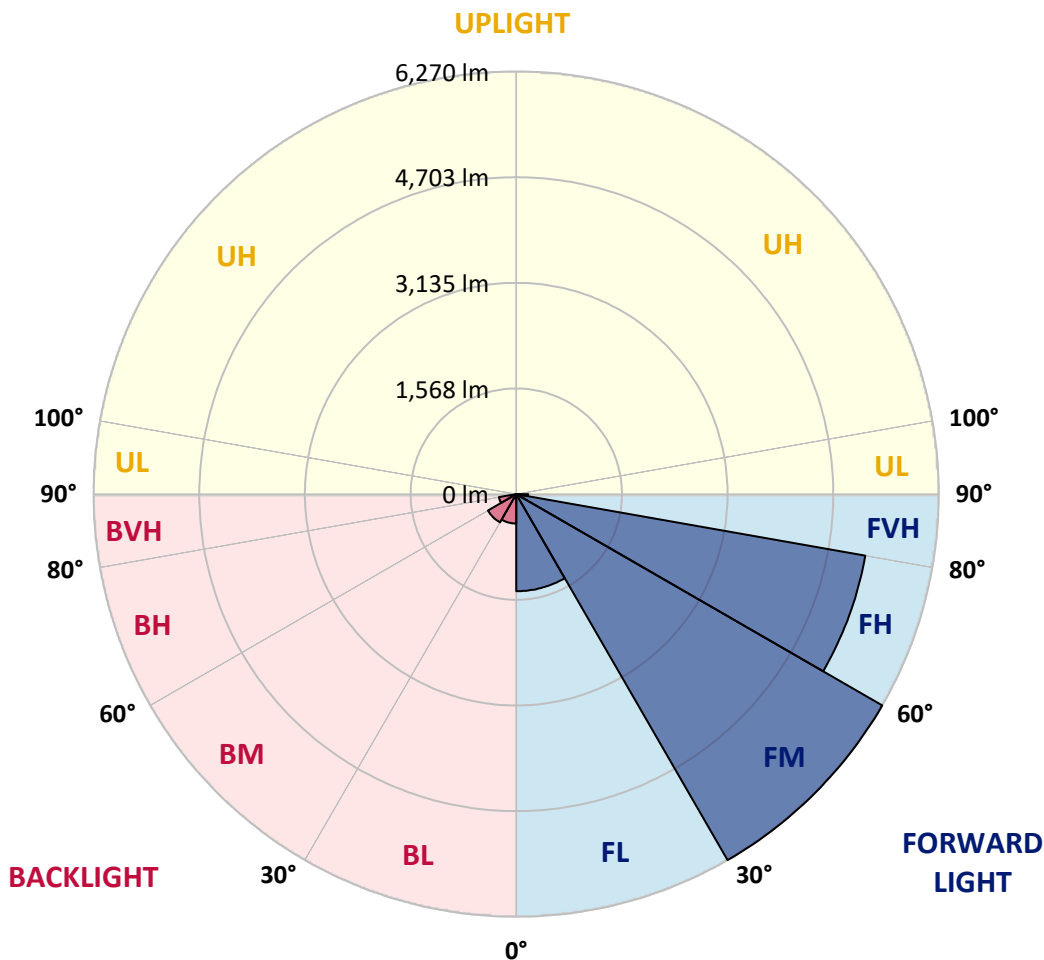
REPORT NUMBER: P484516
 CATALOG NUMBER: IFLD-S-SA3D-827-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.4	10.1			
FM (30°-60°)	6270.3	43.8			
FH (60°-80°)	5258.1	36.7			G3/7500
FVH (80°-90°)	175.1	1.2			G2/225
BL (0°-30°)	436.2	3.0	B1/500		
BM (30°-60°)	484.8	3.4	B1/1000		
BH (60°-80°)	260.4	1.8	B1/500		G1/500
BVH (80°-90°)	2.9	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 III Short





REPORT NUMBER: P484516

CATALOG NUMBER: IFLD-S-SA3D-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4
2.5°	4417.0	4432.2	4445.5	4420.8	4441.7	4411.3	4333.3	4316.2	4302.9	4186.8	4120.3
5°	4415.1	4398.0	4411.3	4422.7	4394.2	4417.0	4398.0	4399.9	4348.5	4243.9	4057.5
7.5°	4120.3	4112.6	4120.3	4175.4	4238.2	4287.7	4316.2	4344.7	4310.5	4154.5	3973.8
10°	3722.7	3760.7	3781.7	3880.6	3977.6	4068.9	4158.3	4211.6	4202.1	4139.3	3882.5
12.5°	3445.0	3433.5	3509.6	3574.3	3671.3	3855.8	4011.8	4061.3	4118.4	4030.8	3762.6
15°	3188.2	3157.7	3203.4	3315.6	3481.1	3627.6	3846.3	3920.5	3992.8	4015.6	3698.0
17.5°	2942.8	2958.0	3005.5	3106.4	3262.3	3467.8	3673.2	3779.8	3952.9	3922.4	3600.9
20°	2824.8	2857.2	2874.3	2925.6	3034.1	3239.5	3545.8	3631.4	3815.9	3920.5	3505.8
22.5°	2830.5	2830.5	2790.6	2821.0	2919.9	3079.7	3372.7	3467.8	3760.7	3821.6	3420.2
25°	2891.4	2853.4	2855.3	2819.1	2861.0	2948.5	3216.7	3332.7	3648.5	3831.1	3374.6
27.5°	2937.1	2929.5	2918.0	2908.5	2855.3	2868.6	3114.0	3209.1	3604.7	3819.7	3304.2
30°	3102.6	3068.3	3056.9	3036.0	2965.6	2900.9	3032.2	3152.0	3570.5	3846.3	3264.2
32.5°	3241.4	3247.1	3256.6	3195.8	3134.9	2975.1	3055.0	3150.1	3545.8	3907.2	3304.2
35°	3416.4	3441.2	3445.0	3425.9	3361.3	3203.4	3150.1	3231.9	3587.6	4015.6	3308.0
37.5°	3682.7	3656.1	3728.4	3736.0	3690.3	3481.1	3370.8	3403.1	3711.3	4188.7	3452.6
40°	3855.8	3888.2	4023.2	4106.9	4028.9	3838.7	3690.3	3684.6	3890.1	4460.8	3631.4
42.5°	4048.0	4120.3	4268.6	4449.3	4439.8	4262.9	4112.6	4087.9	4207.8	4854.5	3914.8
45°	4310.5	4375.2	4582.5	4854.5	5002.9	4852.6	4626.3	4576.8	4593.9	5391.0	4398.0
47.5°	4746.1	4729.0	5027.6	5295.8	5539.3	5423.3	5326.3	5181.7	5168.4	6022.5	5065.7
50°	5238.8	5235.0	5501.3	5805.6	6087.2	6313.5	6151.8	5994.0	5997.8	6880.4	5851.3
52.5°	5706.7	5780.9	6068.2	6370.6	6853.8	7097.3	7253.2	7190.5	6888.0	7647.0	6692.1
55°	5954.0	6018.7	6304.0	6825.2	7588.0	8213.9	8636.2	8582.9	7998.9	8510.6	7521.5
57.5°	5720.0	5763.8	6149.9	6832.9	8101.6	9497.9	9903.1	9836.5	9147.9	9170.7	8523.9
60°	4740.4	4808.9	5383.3	6184.2	7901.9	10487.1	11647.4	11546.6	10194.1	10005.8	9168.8
62.5°	3283.3	3328.9	3800.7	4797.5	6954.6	10831.4	13294.8	13349.9	11297.4	10656.4	9360.9
65°	2126.7	2122.9	2393.0	3068.3	4928.7	9788.9	14268.7	14611.1	12362.7	10755.3	9302.0
67°	1502.8	1497.1	1624.5	2081.1	3412.6	8065.5	14251.6	14987.8	12940.9	10783.8	8756.0
67.5°	1386.7	1381.0	1502.8	1913.7	3079.7	7500.5	14038.5	14793.7	13144.5	10743.9	8516.3
70°	1076.7	1061.5	1107.1	1318.3	1793.8	4850.7	12014.6	13589.6	12722.2	9747.1	6800.5
72.5°	778.0	795.1	867.4	1082.4	1407.7	2609.9	9157.4	10989.2	10625.9	7346.5	4321.9
75°	542.1	557.4	673.4	882.6	1291.6	1582.7	6191.8	7970.4	7401.6	4055.6	1841.4
77.5°	283.4	302.5	429.9	705.7	1173.7	1225.0	3699.9	5054.3	3922.4	1443.8	507.9
80°	131.3	140.8	215.0	500.3	981.6	1076.7	2157.1	2811.5	1569.3	323.4	175.0
82.5°	57.1	62.8	98.9	287.2	696.2	941.6	1335.4	1474.2	568.8	104.6	108.4
85°	11.4	13.3	38.0	152.2	336.7	570.7	937.8	875.0	285.3	51.4	85.6
87.5°	0.0	0.0	9.5	43.8	91.3	169.3	397.6	397.6	87.5	26.6	32.3
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: P484516

CATALOG NUMBER: IFLD-S-SA3D-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4	4059.4
2.5°	4061.3	3992.8	3842.5	3703.7	3604.7	3492.5	3344.1	3277.6	3252.8	3218.6	3167.2
5°	3954.8	3871.1	3614.3	3355.6	3072.1	2857.2	2628.9	2495.7	2394.9	2332.1	2311.2
7.5°	3804.5	3633.3	3287.1	2872.4	2505.3	2185.7	1839.5	1605.5	1455.2	1394.3	1337.3
10°	3684.6	3462.1	2935.2	2419.7	1930.8	1462.8	1072.9	867.4	711.4	652.5	644.9
12.5°	3528.7	3262.3	2606.1	1957.4	1343.0	871.2	593.5	515.5	471.8	464.1	458.4
15°	3399.3	3081.6	2294.1	1516.1	869.3	544.0	462.2	443.2	431.8	428.0	429.9
17.5°	3311.8	2887.6	1974.5	1103.3	572.6	445.1	426.1	414.7	409.0	407.1	401.4
20°	3138.7	2724.0	1658.8	772.3	447.0	410.9	395.7	386.2	380.4	378.5	376.6
22.5°	3039.8	2516.7	1343.0	538.3	397.6	372.8	361.4	353.8	344.3	338.6	336.7
25°	2940.9	2364.5	1061.5	418.5	361.4	344.3	327.2	317.7	302.5	294.8	292.9
27.5°	2824.8	2214.2	818.0	363.3	325.3	308.2	291.0	275.8	256.8	249.2	245.4
30°	2758.3	2067.7	616.3	325.3	298.7	275.8	254.9	235.9	215.0	201.6	197.8
32.5°	2724.0	1934.6	462.2	296.7	270.1	245.4	218.8	195.9	176.9	165.5	163.6
35°	2682.2	1805.2	363.3	270.1	243.5	216.9	190.2	167.4	148.4	138.9	135.1
37.5°	2725.9	1729.1	302.5	249.2	222.6	192.1	163.6	140.8	125.5	116.0	114.1
40°	2845.8	1666.4	262.5	230.2	201.6	169.3	142.7	119.8	106.5	98.9	95.1
42.5°	3030.3	1666.4	237.8	211.1	182.6	148.4	121.7	104.6	91.3	83.7	81.8
45°	3365.1	1717.7	216.9	192.1	159.8	127.5	104.6	87.5	74.2	66.6	64.7
47.5°	3834.9	1835.7	199.7	175.0	142.7	112.2	91.3	74.2	60.9	53.3	51.4
50°	4466.5	2103.9	182.6	154.1	127.5	97.0	76.1	59.0	47.6	39.9	38.0
52.5°	5254.0	2484.3	165.5	142.7	108.4	81.8	60.9	47.6	36.1	30.4	28.5
55°	6087.2	2950.4	144.6	127.5	93.2	68.5	49.5	36.1	26.6	22.8	20.9
57.5°	6926.1	3309.9	127.5	110.3	76.1	55.2	39.9	28.5	19.0	15.2	13.3
60°	7371.2	3344.1	110.3	91.3	60.9	43.8	30.4	20.9	13.3	9.5	7.6
62.5°	7439.7	3039.8	95.1	74.2	49.5	34.2	20.9	15.2	7.6	3.8	3.8
65°	7087.8	2533.8	81.8	59.0	38.0	24.7	15.2	9.5	3.8	1.9	0.0
67°	6517.1	2122.9	70.4	49.5	30.4	19.0	11.4	5.7	1.9	0.0	0.0
67.5°	6296.4	2008.8	66.6	45.7	28.5	17.1	9.5	5.7	1.9	0.0	0.0
70°	4886.9	1434.3	49.5	32.3	20.9	13.3	7.6	3.8	0.0	0.0	0.0
72.5°	2994.1	838.9	38.0	22.8	15.2	9.5	5.7	1.9	0.0	0.0	0.0
75°	1255.5	289.1	32.3	17.1	11.4	5.7	3.8	1.9	0.0	0.0	0.0
77.5°	327.2	108.4	22.8	11.4	7.6	5.7	3.8	1.9	0.0	0.0	0.0
80°	133.2	49.5	15.2	7.6	7.6	5.7	3.8	1.9	0.0	0.0	0.0
82.5°	87.5	22.8	9.5	7.6	5.7	3.8	1.9	0.0	0.0	0.0	0.0
85°	66.6	13.3	5.7	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	28.5	7.6	5.7	3.8	3.8	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)