

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: P481456

Luminaire Tested: **IFLD-M-SA4E-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481456
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

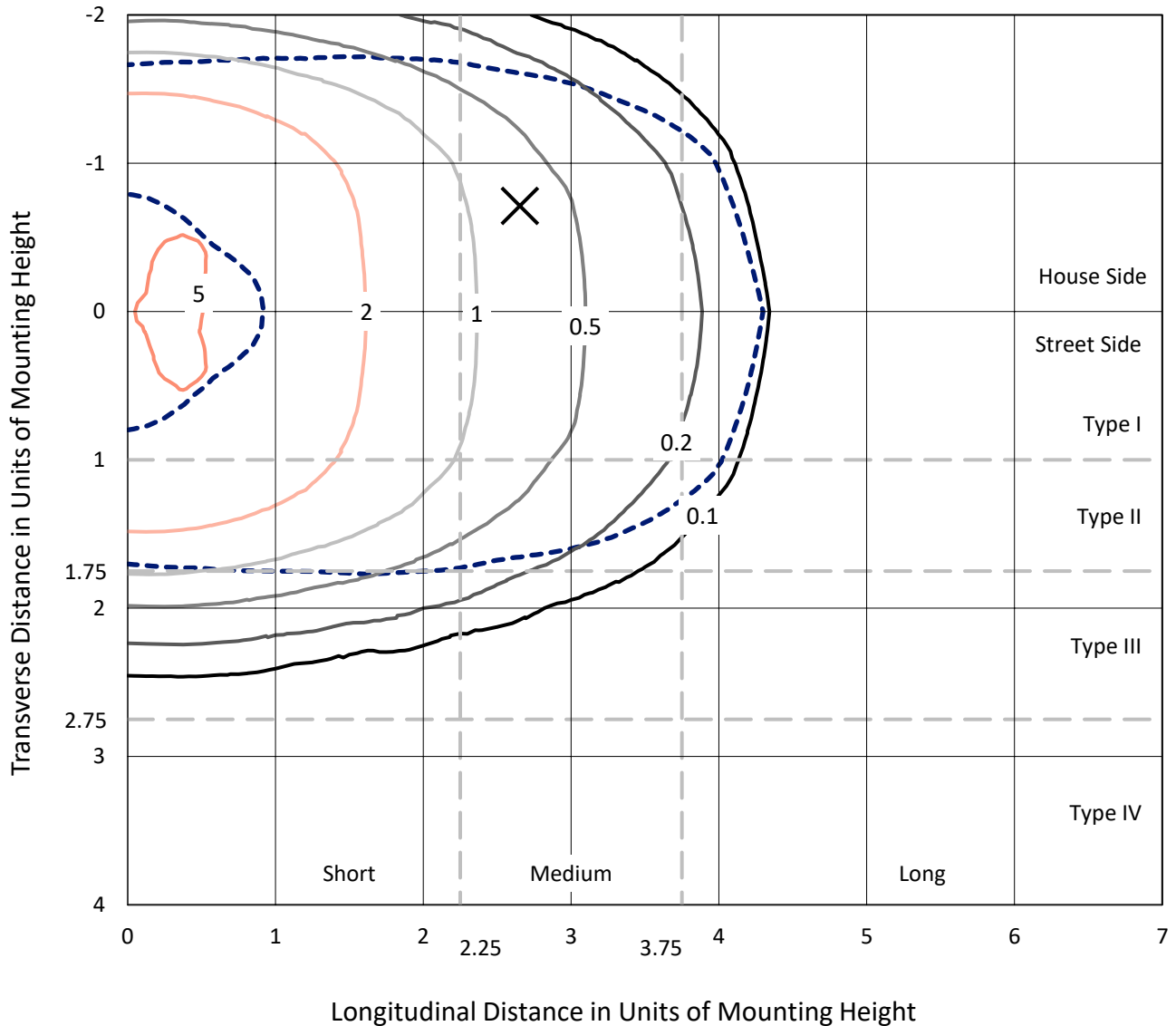
Lumens per Lamp: N/A
Luminaire Lumens: 29632 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 314.8
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: P481456
 CATALOG NUMBER: IFLD-M-SA4E-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

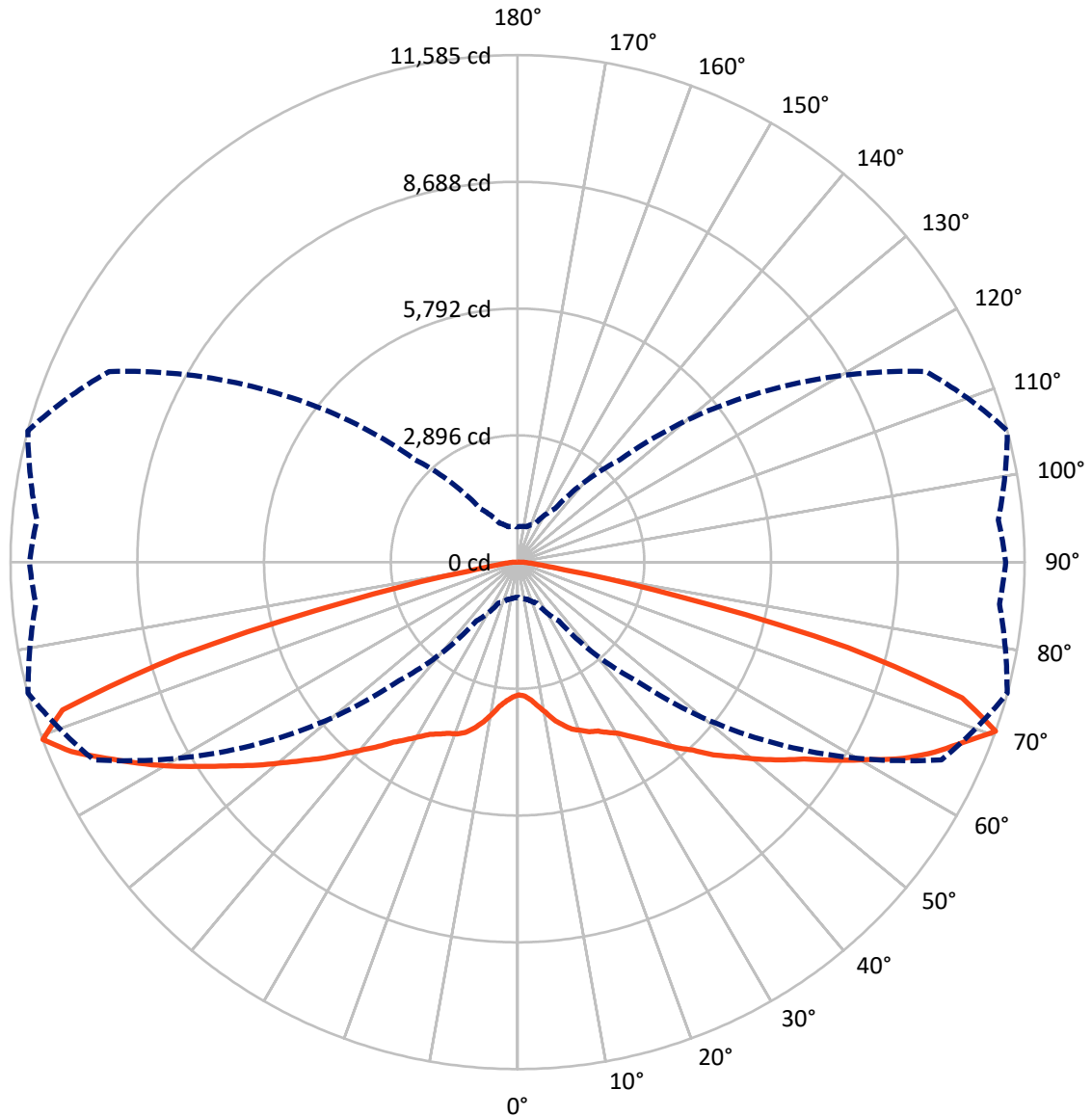
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

REPORT NUMBER: P481456
CATALOG NUMBER: IFLD-M-SA4E-830-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P481456

CATALOG NUMBER: IFLD-M-SA4E-830-U-RW

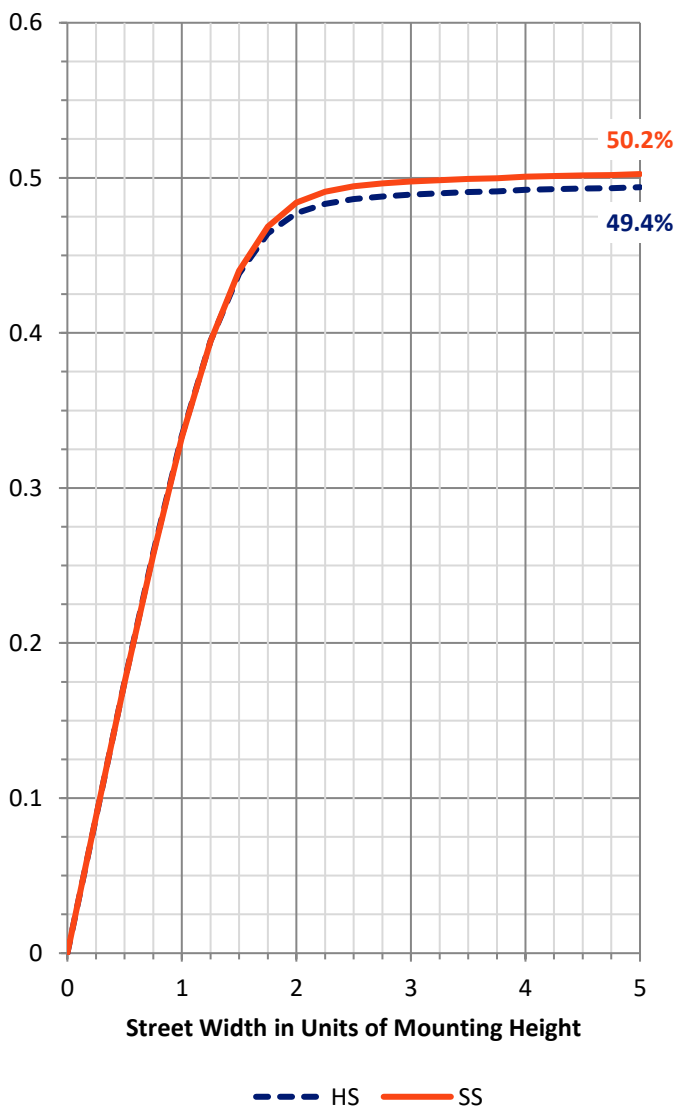
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14710.6	0.0	14710.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	14921.4	0.0	14921.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	29632.0	0.0	29632.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	1.0
10°-20°	1028.3	3.5
20°-30°	1991.2	6.7
30°-40°	3367.9	11.4
40°-50°	5372.9	18.1
50°-60°	7354.3	24.8
60°-70°	6931.9	23.4
70°-80°	3053.7	10.3
80°-90°	229.8	0.8
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°	29632.0	100.0
0°-180°	29632.0	100.0



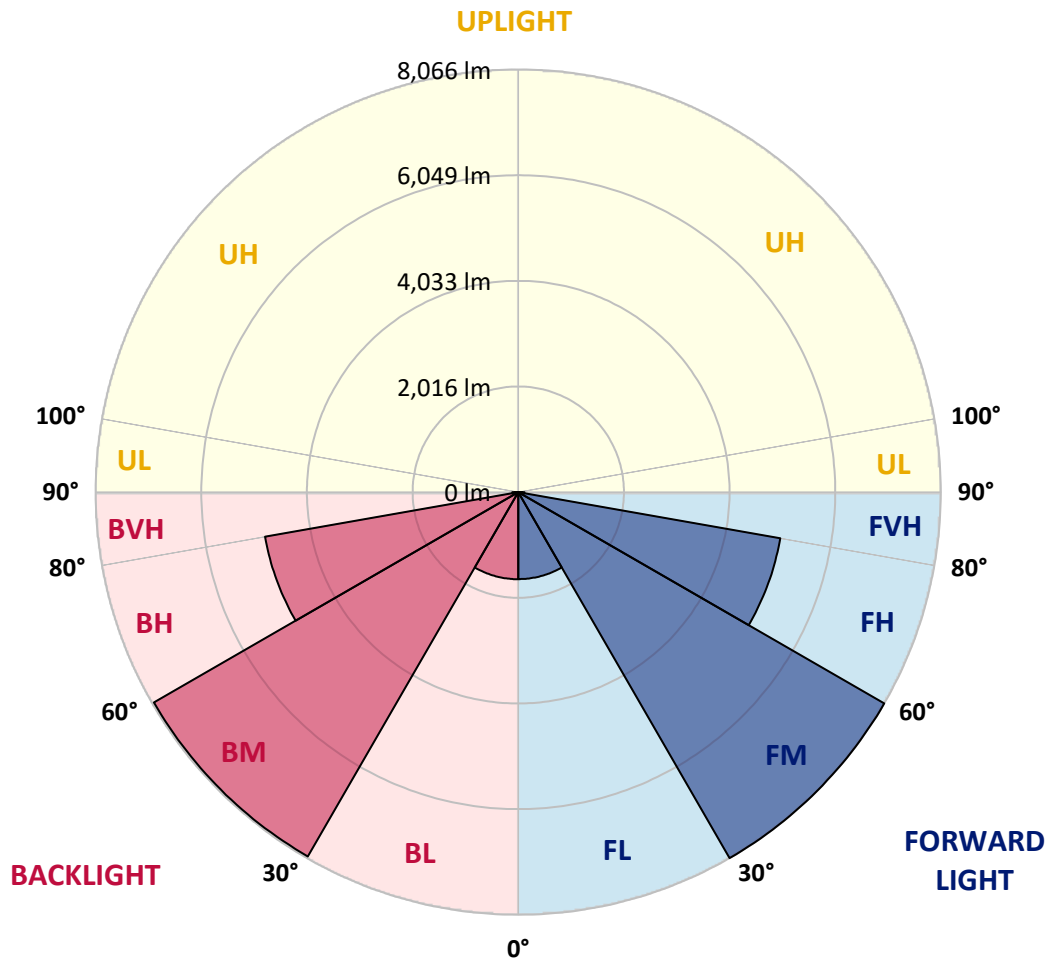
REPORT NUMBER: P481456
 CATALOG NUMBER: IFLD-M-SA4E-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.9	5.6			
FM (30°-60°)	8065.6	27.2			
FH (60°-80°)	5078.6	17.1			G3/7500
FVH (80°-90°)	117.4	0.4			G2/225
BL (0°-30°)	1661.7	5.6	B3/2500		
BM (30°-60°)	8029.5	27.1	B4/8500		
BH (60°-80°)	4907.0	16.6	B4/5000		G4/5000
BVH (80°-90°)	112.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P481456

CATALOG NUMBER: IFLD-M-SA4E-830-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3
2.5°	3015.1	3015.1	3011.9	3027.9	3043.9	3050.3	3063.0	3066.2	3085.4	3069.4	3101.4
5°	3005.5	3002.3	3027.9	3066.2	3066.2	3107.7	3133.3	3168.4	3178.0	3197.2	3203.6
7.5°	3072.6	3066.2	3053.5	3095.0	3130.1	3194.0	3229.1	3289.8	3312.2	3337.7	3366.5
10°	3114.1	3114.1	3101.4	3174.8	3206.8	3293.0	3369.7	3430.3	3516.6	3545.3	3548.5
12.5°	3120.5	3130.1	3168.4	3264.3	3353.7	3465.5	3523.0	3638.0	3724.2	3778.5	3797.7
15°	3216.3	3197.2	3238.7	3369.7	3500.6	3599.6	3701.8	3784.9	3909.4	3979.7	4024.4
17.5°	3302.6	3283.4	3360.1	3516.6	3650.7	3804.0	3893.5	3982.9	4072.3	4136.2	4139.4
20°	3439.9	3455.9	3523.0	3692.2	3867.9	4002.1	4104.3	4120.2	4165.0	4257.6	4241.6
22.5°	3609.2	3596.4	3737.0	3922.2	4113.9	4225.6	4283.1	4241.6	4219.3	4318.3	4340.6
25°	3778.5	3816.8	3944.6	4117.0	4347.0	4497.1	4513.1	4398.1	4315.1	4350.2	4340.6
27.5°	4037.2	4043.6	4177.7	4382.1	4615.3	4746.3	4736.7	4573.8	4414.1	4417.3	4423.7
30°	4369.4	4337.4	4484.4	4669.6	4899.6	5017.8	5033.7	4800.6	4586.6	4522.7	4538.7
32.5°	4688.8	4727.1	4854.9	5065.7	5234.9	5302.0	5266.9	5059.3	4781.4	4695.2	4704.7
35°	5097.6	5091.2	5266.9	5445.7	5573.5	5586.3	5557.5	5254.1	4992.2	4880.4	4835.7
37.5°	5535.2	5592.7	5707.7	5854.6	5988.7	5995.1	5838.6	5595.9	5273.3	5088.0	5142.3
40°	6023.9	6087.7	6170.8	6384.8	6483.8	6381.6	6221.9	5892.9	5557.5	5394.6	5420.2
42.5°	6455.0	6483.8	6653.1	6905.4	6953.3	6908.6	6672.2	6273.0	5883.3	5704.5	5717.2
45°	6851.1	6889.4	7109.8	7336.6	7448.4	7371.7	7097.0	6717.0	6263.4	6110.1	6049.4
47.5°	7215.2	7291.9	7505.9	7739.0	7911.5	7917.9	7579.3	7119.4	6640.3	6439.1	6435.9
50°	7461.2	7572.9	7783.7	8048.8	8301.2	8400.2	8061.6	7566.6	7052.3	6838.3	6816.0
52.5°	7595.3	7710.3	7921.1	8333.1	8614.2	8767.5	8607.8	7985.0	7534.6	7311.0	7275.9
55°	7432.4	7509.1	7854.0	8432.1	8866.5	9118.8	9013.4	8563.1	8013.7	7831.7	7863.6
57.5°	6739.3	6899.0	7323.8	8045.7	8860.1	9479.8	9470.2	9109.3	8566.3	8393.8	8400.2
60°	5548.0	5682.1	6205.9	7215.2	8502.4	9626.7	9965.2	9639.5	9185.9	8984.7	8978.3
62.5°	3915.8	4085.1	4692.0	5793.9	7448.4	9422.3	10533.8	10307.0	9792.8	9645.8	9700.1
65°	2191.1	2293.3	2855.4	3851.9	5675.7	8298.0	10636.0	11000.1	10409.2	10185.6	10195.2
67.5°	1172.2	1210.5	1472.4	2021.8	3471.9	6397.6	9604.3	11399.3	11076.7	10690.3	10629.6
70°	804.9	817.7	884.7	1034.9	1641.7	3826.4	7244.0	10687.1	11578.2	11051.2	11153.4
72.5°	680.3	673.9	689.9	705.9	859.2	1712.0	4251.2	8224.5	10929.8	10731.8	10693.5
75°	590.9	587.7	594.1	578.1	597.3	753.8	1881.3	5126.3	8000.9	8930.4	9074.1
77.5°	488.7	491.9	495.1	479.1	472.7	498.3	757.0	2251.8	3938.2	4347.0	4688.8
80°	370.5	376.9	402.4	386.5	360.9	364.1	447.2	753.8	1130.7	1025.3	1057.2
82.5°	252.3	255.5	309.8	290.7	271.5	245.9	287.5	389.7	440.8	335.4	293.8
85°	178.9	175.7	201.2	185.3	172.5	124.6	172.5	220.4	265.1	166.1	150.1
87.5°	41.5	41.5	83.0	67.1	63.9	51.1	67.1	86.2	115.0	73.5	67.1
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: P481456

CATALOG NUMBER: IFLD-M-SA4E-830-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3	3034.3
2.5°	3091.8	3063.0	3063.0	3056.6	3031.1	3024.7	3002.3	3008.7	2992.8	2976.8
5°	3200.4	3162.0	3162.0	3107.7	3056.6	3050.3	3024.7	3024.7	2999.2	3005.5
7.5°	3350.5	3315.4	3257.9	3210.0	3139.7	3110.9	3063.0	3056.6	3050.3	3037.5
10°	3529.4	3484.6	3427.1	3328.1	3270.6	3216.3	3168.4	3101.4	3085.4	3088.6
12.5°	3772.1	3701.8	3577.3	3491.0	3417.6	3347.3	3277.0	3178.0	3155.7	3165.2
15°	3944.6	3855.1	3730.6	3698.6	3599.6	3513.4	3398.4	3286.6	3248.3	3238.7
17.5°	4085.1	4011.6	3938.2	3890.3	3810.4	3705.0	3545.3	3417.6	3331.3	3321.7
20°	4200.1	4104.3	4088.3	4117.0	4018.0	3947.8	3752.9	3596.4	3481.4	3433.5
22.5°	4270.4	4209.7	4254.4	4279.9	4273.6	4155.4	3954.2	3772.1	3628.4	3583.7
25°	4347.0	4276.7	4436.4	4522.7	4545.0	4350.2	4193.7	3954.2	3813.6	3784.9
27.5°	4385.3	4410.9	4596.1	4778.2	4762.2	4612.1	4401.3	4187.3	4075.5	4024.4
30°	4497.1	4538.7	4819.7	5024.1	5027.3	4880.4	4720.7	4478.0	4353.4	4331.0
32.5°	4698.4	4749.5	5049.7	5266.9	5305.2	5193.4	5033.7	4883.6	4755.8	4704.7
35°	4851.7	4982.6	5321.2	5519.2	5621.4	5554.3	5464.9	5308.4	5174.3	5129.5
37.5°	5072.1	5254.1	5579.9	5848.2	5963.2	5956.8	5889.7	5720.4	5608.6	5570.3
40°	5388.3	5570.3	5867.4	6221.9	6435.9	6426.3	6388.0	6257.0	6090.9	6071.8
42.5°	5723.6	5873.7	6260.2	6665.9	6972.5	6940.5	6838.3	6685.0	6570.0	6544.5
45°	6049.4	6282.6	6640.3	7160.9	7390.9	7470.7	7349.4	7087.5	6956.5	6940.5
47.5°	6458.2	6643.5	7090.7	7557.0	7898.7	7911.5	7703.9	7461.2	7221.6	7272.7
50°	6822.4	7068.3	7521.8	8032.9	8441.7	8294.8	8029.7	7726.3	7553.8	7486.7
52.5°	7212.0	7512.3	8039.3	8559.9	8786.7	8639.7	8208.5	7870.0	7608.1	7579.3
55°	7780.6	7937.1	8627.0	9026.2	9099.7	8789.9	8154.2	7675.1	7336.6	7253.5
57.5°	8358.7	8540.7	9144.4	9489.3	9412.7	8706.8	7802.9	7061.9	6617.9	6499.8
60°	8943.2	9166.7	9674.6	9990.8	9594.7	8135.1	6809.6	5854.6	5337.2	5231.8
62.5°	9594.7	9885.4	10338.9	10450.7	9055.0	7004.4	5404.2	4225.6	3701.8	3526.2
65°	10172.8	10469.9	11028.8	10354.9	7908.3	5225.4	3494.2	2414.7	2028.2	1887.6
67.5°	10648.8	10984.1	11258.8	9163.5	5790.7	3059.8	1820.6	1271.2	1127.5	1076.4
70°	11025.6	11584.6	10300.6	6736.1	3309.0	1491.6	983.7	836.8	817.7	804.9
72.5°	10696.7	10623.2	7691.1	3887.1	1450.1	820.9	712.3	689.9	686.7	689.9
75°	8748.3	7802.9	4599.3	1689.6	728.2	594.1	590.9	581.3	597.3	597.3
77.5°	4244.8	3711.4	1922.8	725.0	479.1	466.3	482.3	482.3	482.3	482.3
80°	983.7	1089.1	686.7	440.8	348.1	348.1	383.3	386.5	370.5	364.1
82.5°	335.4	447.2	376.9	277.9	230.0	258.7	290.7	297.0	245.9	249.1
85°	166.1	261.9	204.4	159.7	118.2	159.7	188.4	198.0	169.3	162.9
87.5°	76.7	115.0	76.7	54.3	41.5	57.5	54.3	44.7	25.6	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)