

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: P481189

Luminaire Tested: **IFLD-L-SA8A-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481189
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

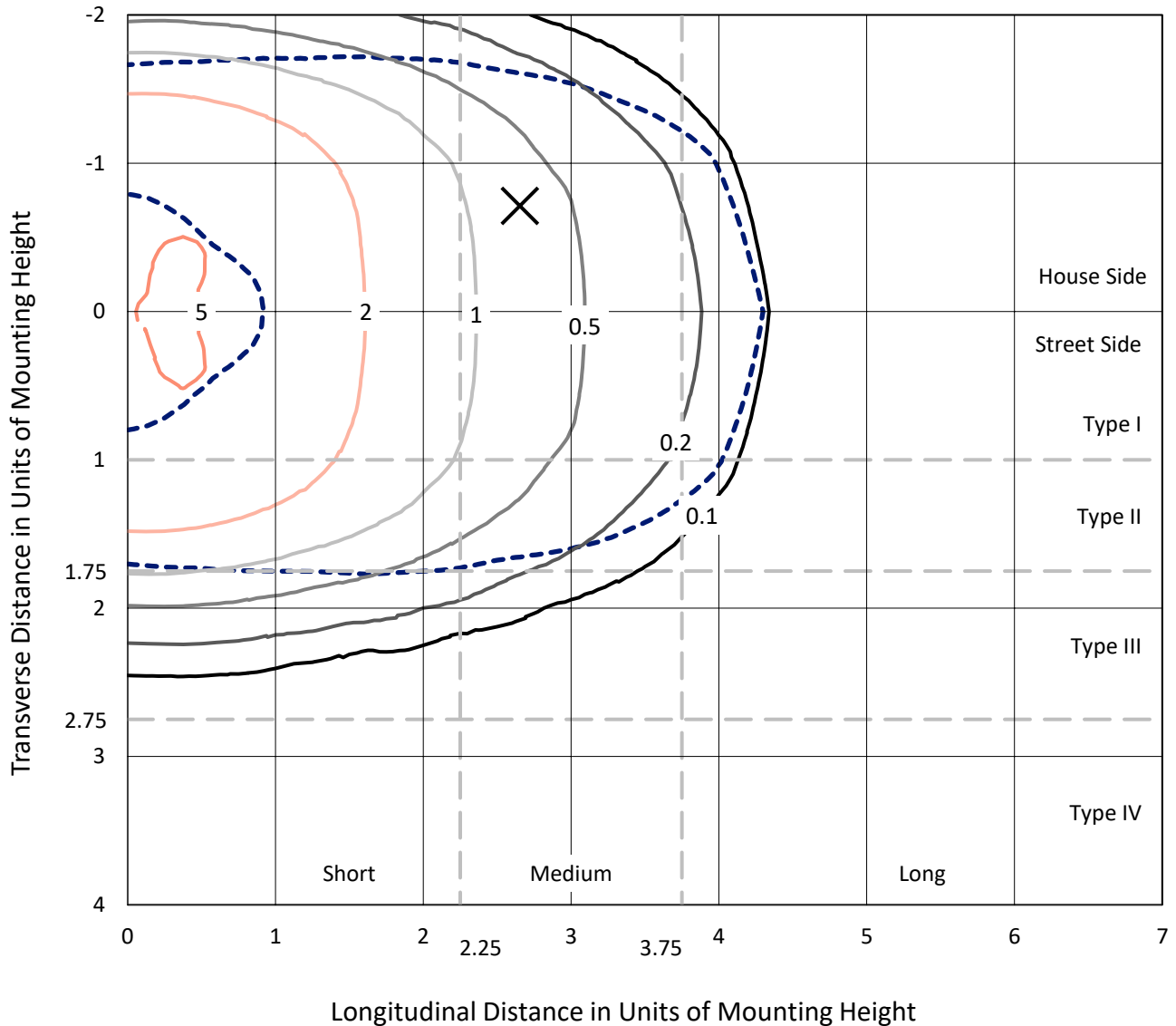
Lumens per Lamp: N/A
Luminaire Lumens: 29508.7 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 247.8
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

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Iso-Footcandle Lines of Horizontal Illumination

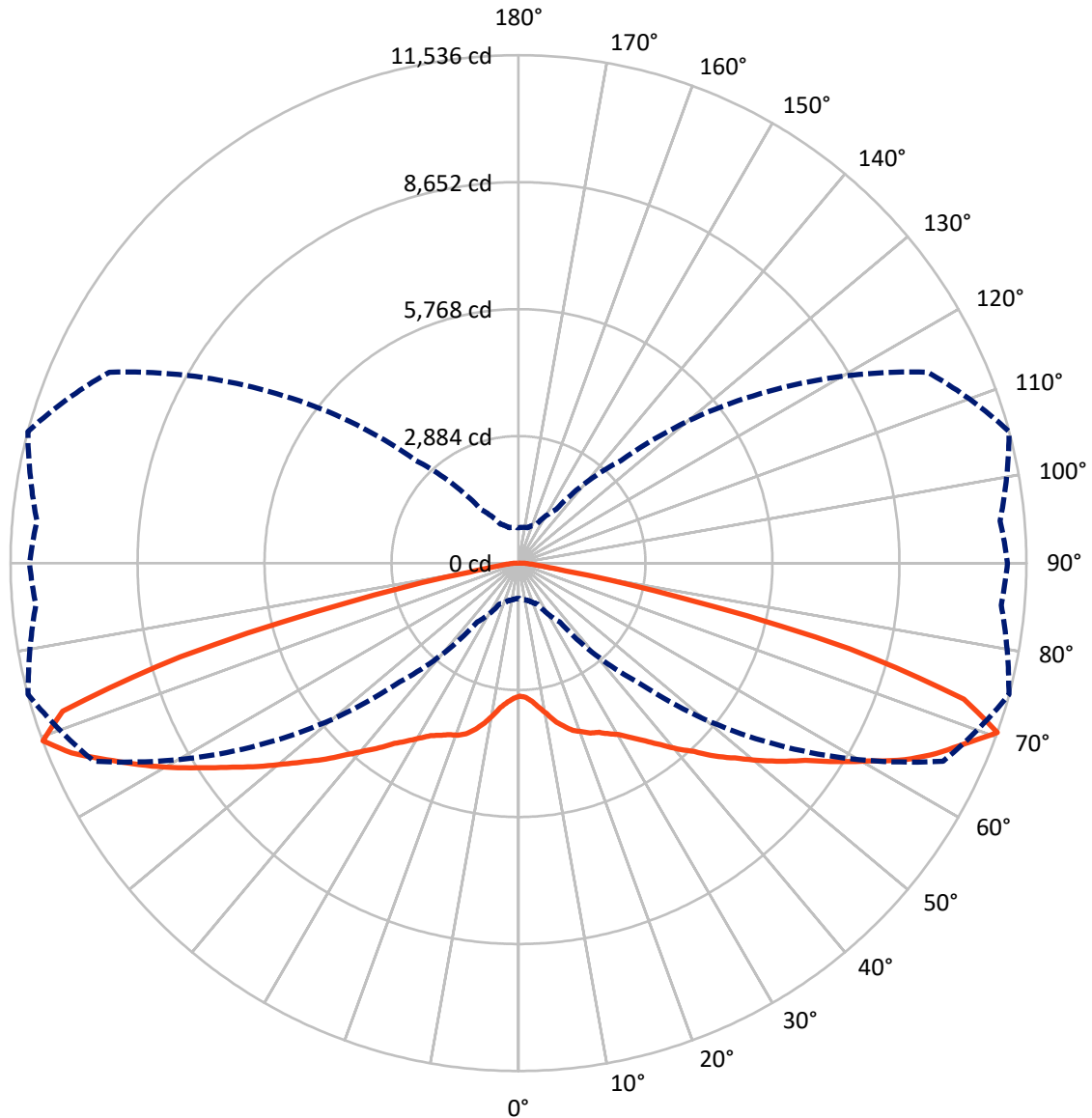
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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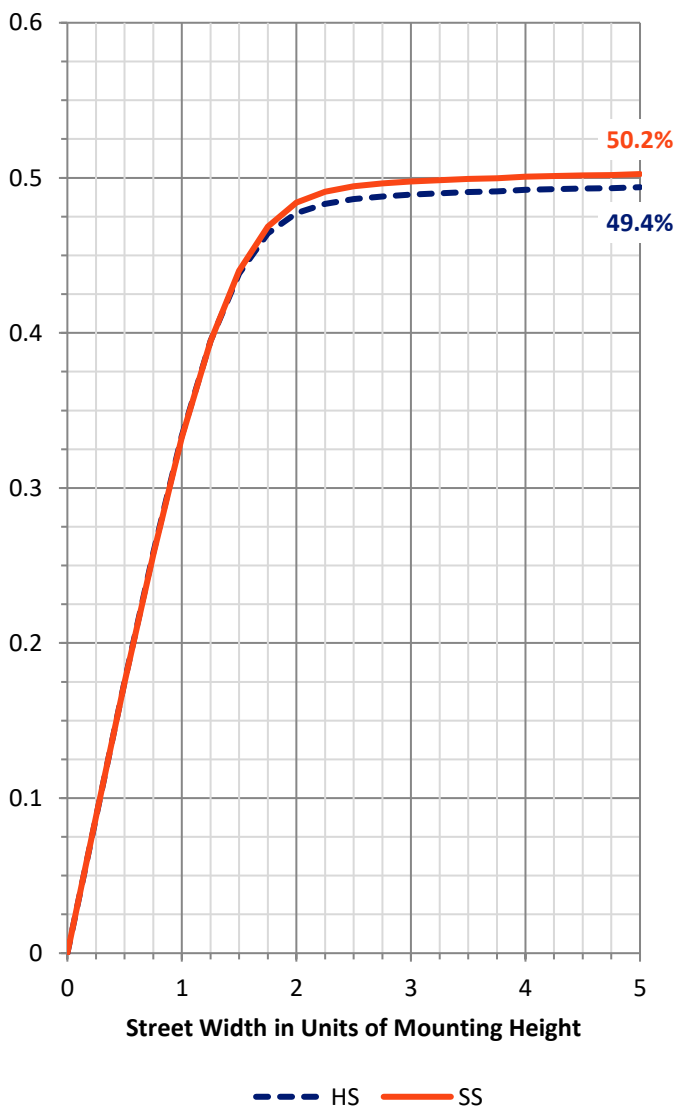
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14649.4	0.0	14649.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	14859.3	0.0	14859.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	29508.7	0.0	29508.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	1.0
10°-20°	1024.1	3.5
20°-30°	1982.9	6.7
30°-40°	3353.9	11.4
40°-50°	5350.5	18.1
50°-60°	7323.7	24.8
60°-70°	6903.1	23.4
70°-80°	3041.0	10.3
80°-90°	228.8	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°	29508.7	100.0
0°-180°	29508.7	100.0

Coefficient of Utilization



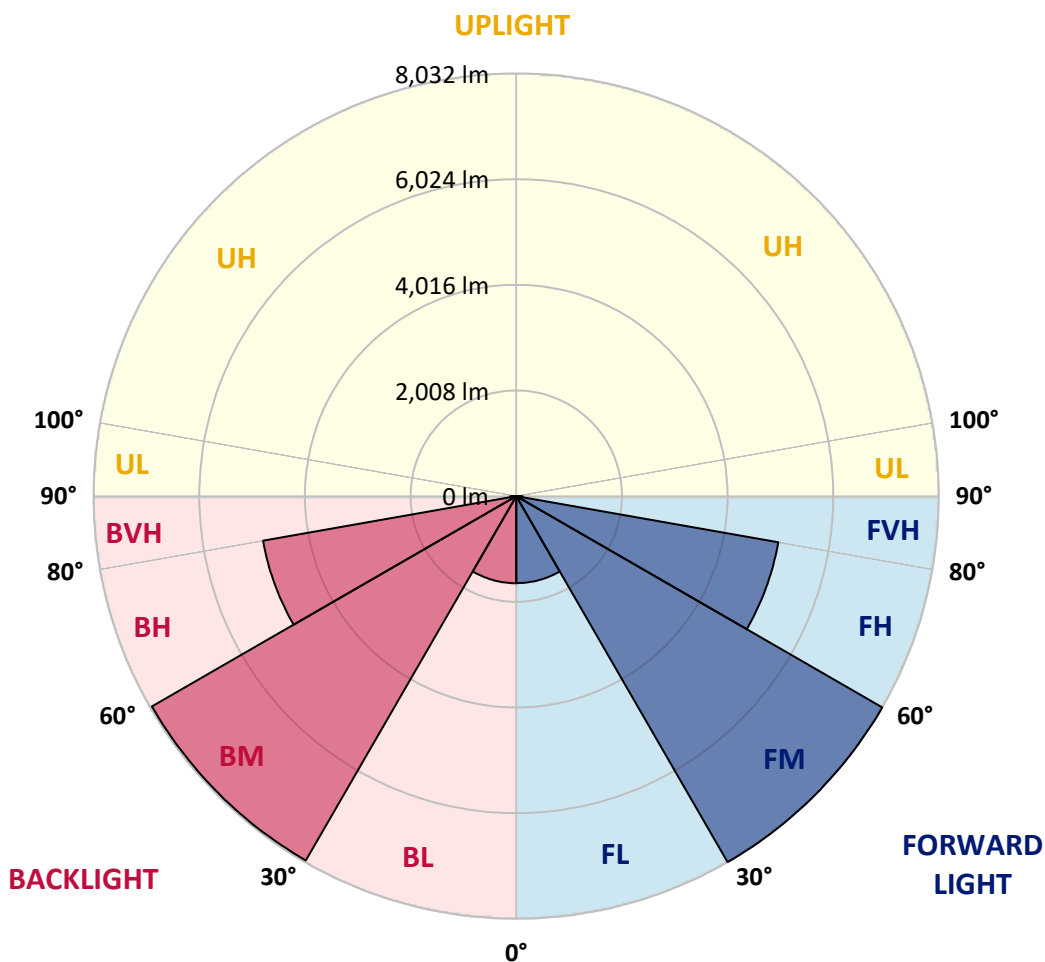
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1653.0	5.6			
FM (30°-60°)	8032.0	27.2			
FH (60°-80°)	5057.5	17.1			G3/7500
FVH (80°-90°)	116.9	0.4			G2/225
BL (0°-30°)	1654.8	5.6	B3/2500		
BM (30°-60°)	7996.1	27.1	B4/8500		
BH (60°-80°)	4886.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	111.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7
2.5°	3002.6	3002.6	2999.4	3015.3	3031.2	3037.6	3050.3	3053.5	3072.6	3056.7	3088.5
5°	2993.0	2989.9	3015.3	3053.5	3053.5	3094.8	3120.3	3155.3	3164.8	3183.9	3190.2
7.5°	3059.8	3053.5	3040.7	3082.1	3117.1	3180.7	3215.7	3276.1	3298.4	3323.8	3352.5
10°	3101.2	3101.2	3088.5	3161.6	3193.4	3279.3	3355.6	3416.1	3502.0	3530.6	3533.8
12.5°	3107.5	3117.1	3155.3	3250.7	3339.7	3451.1	3508.3	3622.8	3708.7	3762.8	3781.9
15°	3203.0	3183.9	3225.2	3355.6	3486.0	3584.6	3686.4	3769.1	3893.2	3963.2	4007.7
17.5°	3288.8	3269.8	3346.1	3502.0	3635.5	3788.2	3877.3	3966.3	4055.4	4119.0	4122.2
20°	3425.6	3441.5	3508.3	3676.9	3851.8	3985.4	4087.2	4103.1	4147.6	4239.9	4224.0
22.5°	3594.2	3581.5	3721.4	3905.9	4096.7	4208.1	4265.3	4224.0	4201.7	4300.3	4322.6
25°	3762.8	3800.9	3928.2	4099.9	4328.9	4478.4	4494.3	4379.8	4297.1	4332.1	4322.6
27.5°	4020.4	4026.8	4160.4	4363.9	4596.1	4726.5	4717.0	4554.8	4395.7	4398.9	4405.3
30°	4351.2	4319.4	4465.7	4650.2	4879.2	4996.9	5012.8	4780.6	4567.5	4503.9	4519.8
32.5°	4669.3	4707.4	4834.7	5044.6	5213.2	5280.0	5245.0	5038.2	4761.5	4675.6	4685.2
35°	5076.4	5070.0	5245.0	5423.1	5550.3	5563.0	5534.4	5232.3	4971.4	4860.1	4815.6
37.5°	5512.2	5569.4	5683.9	5830.2	5963.8	5970.2	5814.3	5572.6	5251.3	5066.9	5120.9
40°	5998.8	6062.4	6145.1	6358.2	6456.8	6355.0	6196.0	5868.4	5534.4	5372.2	5397.6
42.5°	6428.2	6456.8	6625.4	6876.7	6924.4	6879.9	6644.5	6246.9	5858.8	5680.7	5693.5
45°	6822.6	6860.8	7080.2	7306.1	7417.4	7341.1	7067.5	6689.0	6237.4	6084.7	6024.2
47.5°	7185.2	7261.5	7474.6	7706.8	7878.6	7885.0	7547.8	7089.8	6612.7	6412.3	6409.1
50°	7430.1	7541.4	7751.4	8015.4	8266.6	8365.2	8028.1	7535.1	7023.0	6809.9	6787.6
52.5°	7563.7	7678.2	7888.1	8298.4	8578.3	8731.0	8572.0	7951.7	7503.3	7280.6	7245.6
55°	7401.5	7477.8	7821.3	8397.0	8829.6	9080.9	8975.9	8527.5	7980.4	7799.1	7830.9
57.5°	6711.3	6870.3	7293.3	8012.2	8823.3	9440.3	9430.8	9071.4	8530.6	8358.9	8365.2
60°	5524.9	5658.5	6180.1	7185.2	8467.0	9586.6	9923.8	9599.4	9147.7	8947.3	8940.9
62.5°	3899.5	4068.1	4672.4	5769.8	7417.4	9383.1	10489.9	10264.1	9752.0	9605.7	9659.8
65°	2182.0	2283.7	2843.5	3835.9	5652.1	8263.5	10591.7	10954.3	10365.9	10143.3	10152.8
67.5°	1167.3	1205.5	1466.3	2013.4	3457.4	6370.9	9564.4	11351.9	11030.7	10645.8	10585.4
70°	801.5	814.3	881.1	1030.5	1634.9	3810.5	7213.8	10642.6	11530.0	11005.2	11107.0
72.5°	677.5	671.1	687.0	702.9	855.6	1704.9	4233.5	8190.3	10884.4	10687.2	10649.0
75°	588.4	585.2	591.6	575.7	594.8	750.6	1873.4	5105.0	7967.7	8893.2	9036.4
77.5°	486.6	489.8	493.0	477.1	470.7	496.2	753.8	2242.4	3921.8	4328.9	4669.3
80°	369.0	375.3	400.8	384.9	359.4	362.6	445.3	750.6	1126.0	1021.0	1052.8
82.5°	251.3	254.5	308.5	289.4	270.4	244.9	286.3	388.0	438.9	334.0	292.6
85°	178.1	174.9	200.4	184.5	171.8	124.0	171.8	219.5	264.0	165.4	149.5
87.5°	41.3	41.3	82.7	66.8	63.6	50.9	66.8	85.9	114.5	73.2	66.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7	3021.7
2.5°	3078.9	3050.3	3050.3	3043.9	3018.5	3012.1	2989.9	2996.2	2980.3	2964.4
5°	3187.1	3148.9	3148.9	3094.8	3043.9	3037.6	3012.1	3012.1	2986.7	2993.0
7.5°	3336.6	3301.6	3244.3	3196.6	3126.6	3098.0	3050.3	3043.9	3037.6	3024.8
10°	3514.7	3470.1	3412.9	3314.3	3257.0	3203.0	3155.3	3088.5	3072.6	3075.7
12.5°	3756.4	3686.4	3562.4	3476.5	3403.3	3333.4	3263.4	3164.8	3142.5	3152.1
15°	3928.2	3839.1	3715.1	3683.3	3584.6	3498.8	3384.3	3272.9	3234.8	3225.2
17.5°	4068.1	3995.0	3921.8	3874.1	3794.6	3689.6	3530.6	3403.3	3317.5	3307.9
20°	4182.6	4087.2	4071.3	4099.9	4001.3	3931.3	3737.3	3581.5	3467.0	3419.3
22.5°	4252.6	4192.2	4236.7	4262.1	4255.8	4138.1	3937.7	3756.4	3613.3	3568.7
25°	4328.9	4259.0	4418.0	4503.9	4526.1	4332.1	4176.3	3937.7	3797.8	3769.1
27.5°	4367.1	4392.5	4577.0	4758.3	4742.4	4592.9	4383.0	4169.9	4058.6	4007.7
30°	4478.4	4519.8	4799.7	5003.2	5006.4	4860.1	4701.1	4459.3	4335.3	4313.0
32.5°	4678.8	4729.7	5028.7	5245.0	5283.1	5171.8	5012.8	4863.3	4736.1	4685.2
35°	4831.5	4961.9	5299.0	5496.2	5598.0	5531.2	5442.2	5286.3	5152.7	5108.2
37.5°	5051.0	5232.3	5556.7	5823.9	5938.4	5932.0	5865.2	5696.6	5585.3	5547.1
40°	5365.8	5547.1	5842.9	6196.0	6409.1	6399.6	6361.4	6231.0	6065.6	6046.5
42.5°	5699.8	5849.3	6234.2	6638.1	6943.5	6911.7	6809.9	6657.2	6542.7	6517.3
45°	6024.2	6256.4	6612.7	7131.1	7360.1	7439.7	7318.8	7058.0	6927.6	6911.7
47.5°	6431.4	6615.9	7061.2	7525.5	7865.9	7878.6	7671.8	7430.1	7191.6	7242.5
50°	6794.0	7038.9	7490.5	7999.5	8406.6	8260.3	7996.3	7694.1	7522.4	7455.6
52.5°	7182.0	7481.0	8005.8	8524.3	8750.1	8603.8	8174.4	7837.2	7576.4	7547.8
55°	7748.2	7904.0	8591.1	8988.7	9061.8	8753.3	8120.3	7643.2	7306.1	7223.4
57.5°	8323.9	8505.2	9106.3	9449.9	9373.5	8670.6	7770.4	7032.5	6590.4	6472.7
60°	8906.0	9128.6	9634.3	9949.2	9554.8	8101.2	6781.3	5830.2	5314.9	5210.0
62.5°	9554.8	9844.3	10295.9	10407.2	9017.3	6975.3	5381.7	4208.1	3686.4	3511.5
65°	10130.5	10426.3	10983.0	10311.8	7875.4	5203.6	3479.7	2404.6	2019.7	1879.8
67.5°	10604.5	10938.4	11212.0	9125.4	5766.6	3047.1	1813.0	1265.9	1122.8	1071.9
70°	10979.8	11536.4	10257.8	6708.1	3295.2	1485.4	979.7	833.3	814.3	801.5
72.5°	10652.2	10579.0	7659.1	3870.9	1444.0	817.4	709.3	687.0	683.9	687.0
75°	8711.9	7770.4	4580.2	1682.6	725.2	591.6	588.4	578.9	594.8	594.8
77.5°	4227.1	3696.0	1914.8	722.0	477.1	464.4	480.3	480.3	480.3	480.3
80°	979.7	1084.6	683.9	438.9	346.7	346.7	381.7	384.9	369.0	362.6
82.5°	334.0	445.3	375.3	276.7	229.0	257.6	289.4	295.8	244.9	248.1
85°	165.4	260.8	203.6	159.0	117.7	159.0	187.7	197.2	168.6	162.2
87.5°	76.3	114.5	76.3	54.1	41.3	57.3	54.1	44.5	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)