

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: P479117

Luminaire Tested: **IFLD-L-SA7A-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479117
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24806.1 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

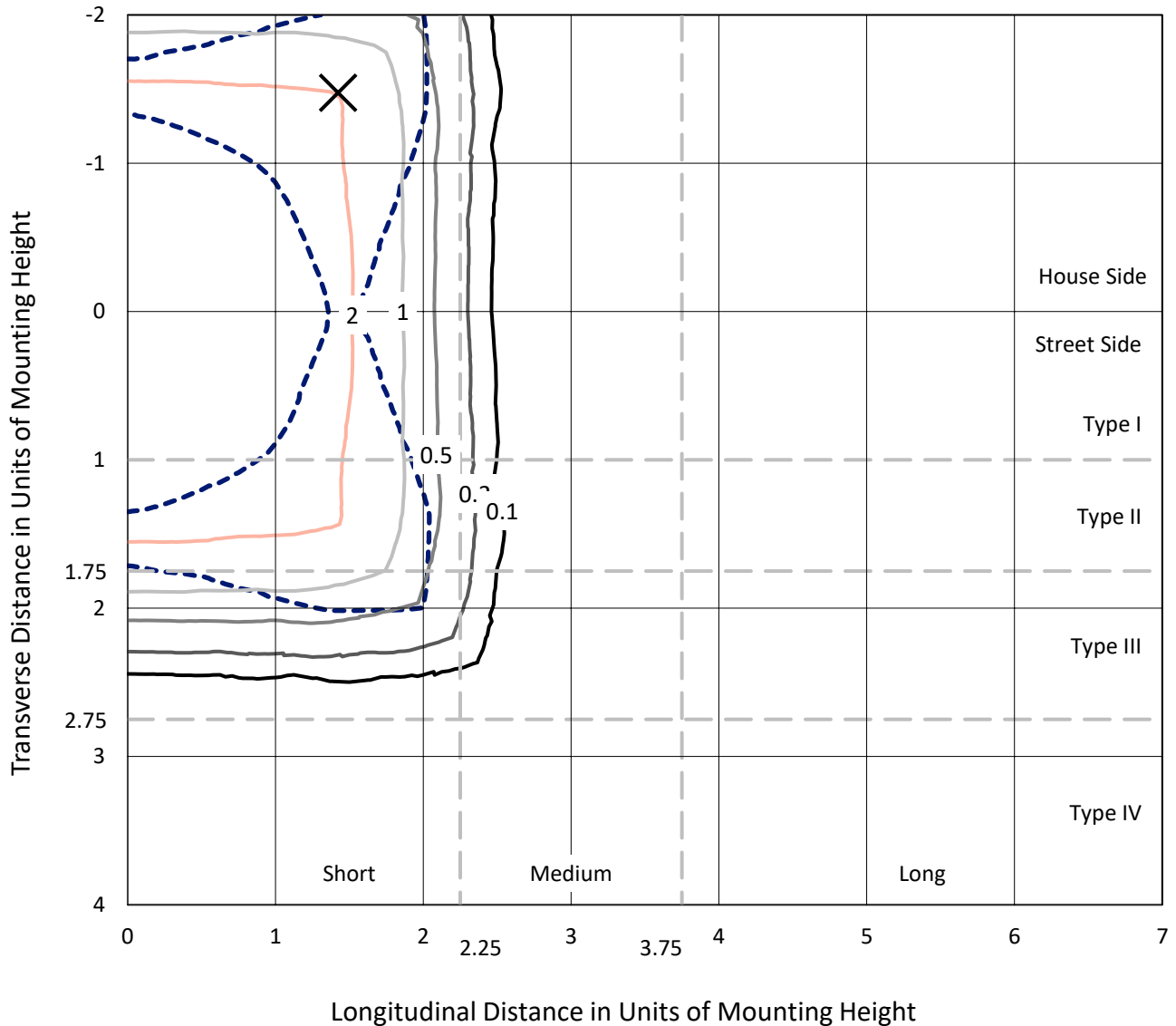
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

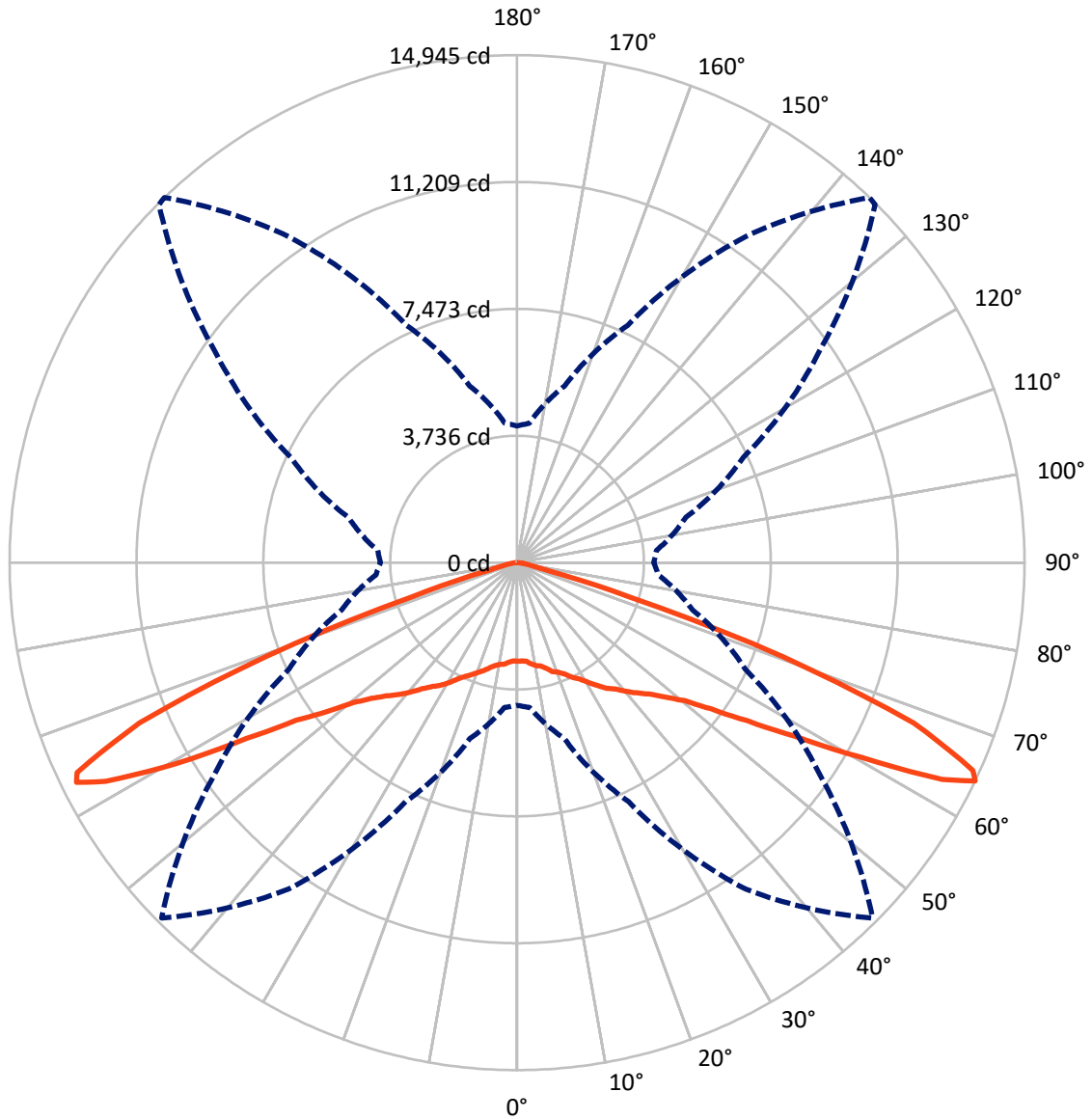
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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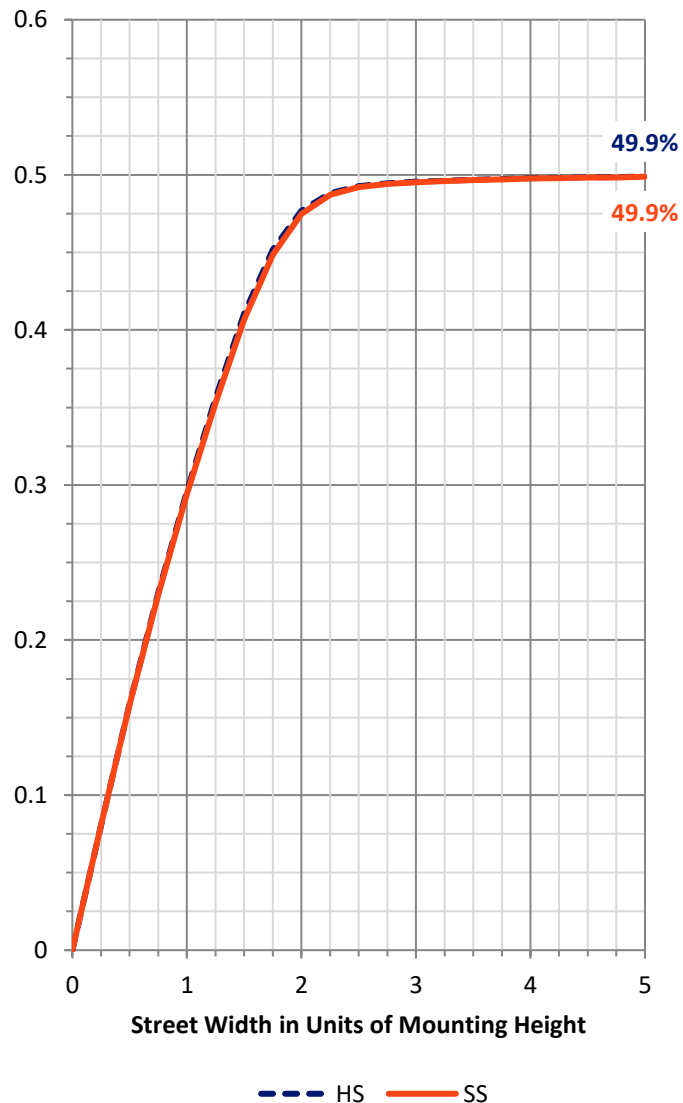
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12414.9	0.0	12414.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12391.2	0.0	12391.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	24806.1	0.0	24806.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.4	1.2
10°-20°	919.7	3.7
20°-30°	1728.6	7.0
30°-40°	2850.7	11.5
40°-50°	4458.3	18.0
50°-60°	7203.5	29.0
60°-70°	6486.3	26.1
70°-80°	768.3	3.1
80°-90°	105.2	0.4
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°	24806.1	100.0
0°-180°	24806.1	100.0

Coefficient of Utilization



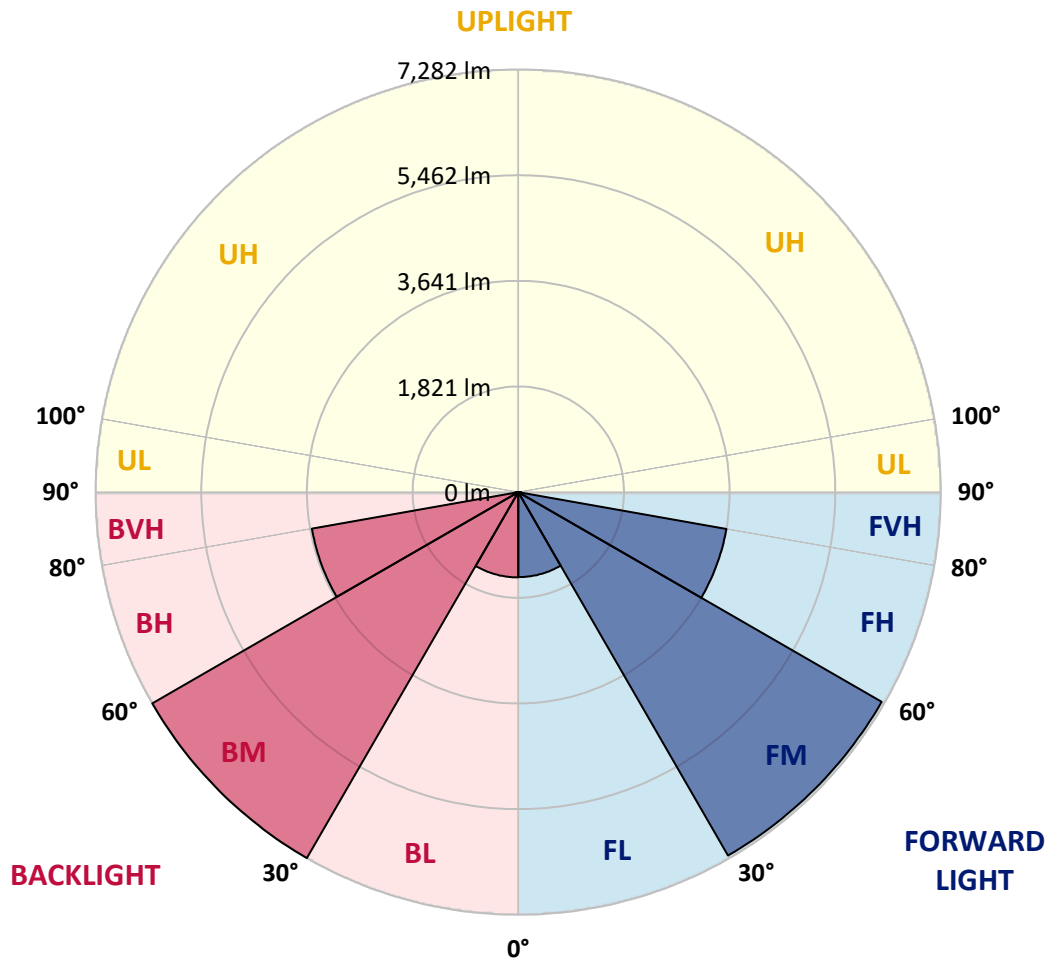
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.0	5.9			
FM (30°-60°)	7230.2	29.1			
FH (60°-80°)	3643.0	14.7			G2/5000
FVH (80°-90°)	54.0	0.2			G1/100
BL (0°-30°)	1469.7	5.9	B3/2500		
BM (30°-60°)	7282.4	29.4	B4/8500		
BH (60°-80°)	3611.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	51.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3
2.5°	2870.1	2875.8	2927.0	2907.1	2924.2	2892.9	2915.7	2964.0	2907.1	2949.8	2964.0
5°	2901.4	2910.0	2910.0	2929.9	2941.3	2935.6	2949.8	2929.9	2983.9	2961.2	2995.3
7.5°	3015.2	3001.0	2978.2	2995.3	2998.2	3012.4	3026.6	3052.2	3043.7	3023.8	3057.9
10°	3035.1	3023.8	3057.9	3060.7	3046.5	3035.1	3049.4	3049.4	3075.0	3080.6	3080.6
12.5°	3069.3	3080.6	3077.8	3100.6	3103.4	3094.9	3117.6	3160.3	3148.9	3157.4	3137.5
15°	3200.1	3185.9	3183.0	3205.8	3242.8	3188.7	3228.6	3225.7	3214.3	3231.4	3185.9
17.5°	3313.9	3268.4	3288.3	3325.3	3311.1	3322.4	3373.6	3328.1	3339.5	3319.6	3305.4
20°	3413.5	3376.5	3379.3	3393.5	3393.5	3427.7	3447.6	3430.5	3419.1	3416.3	3422.0
22.5°	3524.4	3481.7	3484.6	3544.3	3564.2	3552.8	3538.6	3567.1	3572.7	3550.0	3575.6
25°	3606.9	3652.4	3666.6	3695.1	3652.4	3683.7	3672.3	3726.4	3760.5	3715.0	3746.3
27.5°	3823.1	3803.2	3840.1	3837.3	3871.4	3840.1	3860.0	3877.1	3891.3	3894.2	3880.0
30°	4016.5	4025.0	3988.1	4087.6	4008.0	4059.2	4093.3	4101.8	4118.9	4118.9	4076.2
32.5°	4221.3	4204.2	4264.0	4241.2	4227.0	4266.8	4229.8	4346.5	4278.2	4318.0	4269.7
35°	4451.7	4451.7	4474.5	4537.0	4451.7	4426.1	4494.4	4542.7	4542.7	4471.6	4488.7
37.5°	4710.6	4687.8	4716.3	4795.9	4730.5	4645.1	4770.3	4790.2	4776.0	4756.1	4721.9
40°	4892.6	4886.9	4943.8	5049.1	4955.2	4938.1	4960.9	5014.9	5032.0	5051.9	5006.4
42.5°	5199.8	5225.4	5390.4	5364.8	5288.0	5228.3	5222.6	5424.5	5376.2	5325.0	5299.4
45°	5655.0	5632.2	5717.5	5720.4	5620.8	5490.0	5518.4	5703.3	5785.8	5672.0	5714.7
47.5°	6016.2	6027.6	6087.3	6209.6	5979.2	5842.7	5947.9	6246.6	6221.0	6178.4	6218.2
50°	6499.8	6551.0	6738.7	6696.1	6491.3	6323.4	6553.8	6835.4	6866.7	6710.3	6681.8
52.5°	7168.3	7247.9	7350.3	7384.4	7188.2	7128.4	7142.7	7492.5	7415.7	7265.0	7168.3
55°	7754.2	7791.2	7978.9	8260.6	8246.3	7959.0	8124.0	8254.9	7942.0	7631.9	7657.5
57.5°	8004.5	8021.6	8545.0	9108.2	9443.9	9509.3	9321.6	8880.7	8135.4	7538.0	7501.1
60°	7381.6	7543.7	8175.2	9446.7	10979.9	11736.6	10487.8	8951.8	7683.1	6957.8	6903.7
62.5°	5899.6	5908.1	6846.8	8775.4	11935.7	13918.4	10934.4	8283.3	6477.0	5655.0	5438.8
64°	4201.4	4281.0	5359.1	7768.5	11736.6	14805.9	10880.4	7410.0	5339.2	4172.9	4022.2
65°	3015.2	3126.2	4167.3	6744.4	11270.1	14700.6	10718.2	6659.1	4318.0	3185.9	3032.3
67.5°	1109.4	1154.9	1635.6	3373.6	8092.7	12527.4	8493.8	3660.9	1897.3	1351.2	1214.6
70°	514.9	517.7	605.9	1115.1	3538.6	8377.2	4053.5	1373.9	714.0	566.1	526.2
72.5°	378.3	386.9	423.8	514.9	1041.1	3547.1	1331.2	563.2	418.1	369.8	361.3
75°	307.2	312.9	324.3	372.6	480.7	950.1	540.5	389.7	332.8	298.7	287.3
77.5°	236.1	236.1	261.7	284.5	318.6	443.7	358.4	310.1	270.2	236.1	227.6
80°	170.7	173.5	204.8	221.9	216.2	293.0	258.9	256.0	221.9	184.9	170.7
82.5°	99.6	108.1	147.9	159.3	153.6	173.5	187.7	199.1	173.5	128.0	116.6
85°	56.9	59.7	85.3	88.2	88.2	82.5	108.1	119.5	116.6	79.6	71.1
87.5°	17.1	17.1	22.8	22.8	25.6	28.4	42.7	51.2	56.9	39.8	37.0
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°	136°	145°	155°	165°	175°	180°
0°	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3	2904.3
2.5°	2949.8	2907.1	2910.0	2921.3	2884.4	2898.6	2941.3	2910.0	2901.4	2884.4	2875.8
5°	2935.6	2981.1	2964.0	2969.7	2961.2	2921.3	2915.7	2941.3	2955.5	2929.9	2981.1
7.5°	3035.1	3015.2	2992.5	3001.0	2981.1	3015.2	3038.0	2986.8	3012.4	2998.2	2969.7
10°	3092.0	3055.0	3072.1	3066.4	3052.2	3086.3	3063.6	3057.9	3035.1	3003.8	3049.4
12.5°	3111.9	3154.6	3183.0	3134.7	3143.2	3126.2	3111.9	3111.9	3086.3	3077.8	3086.3
15°	3200.1	3237.1	3225.7	3262.7	3214.3	3231.4	3248.5	3205.8	3228.6	3166.0	3214.3
17.5°	3362.3	3331.0	3370.8	3322.4	3339.5	3373.6	3319.6	3319.6	3336.7	3302.5	3259.8
20°	3464.7	3450.4	3436.2	3439.1	3410.6	3441.9	3424.8	3416.3	3390.7	3402.1	3424.8
22.5°	3561.4	3541.5	3547.1	3555.7	3575.6	3561.4	3552.8	3561.4	3498.8	3555.7	3476.0
25°	3680.8	3734.9	3717.8	3754.8	3697.9	3734.9	3732.0	3678.0	3712.1	3689.4	3672.3
27.5°	3880.0	3851.5	3877.1	3831.6	3871.4	3874.3	3840.1	3931.2	3891.3	3885.6	3874.3
30°	4136.0	4116.1	4099.0	4073.4	4104.7	4079.1	4107.5	4116.1	4079.1	4050.6	3996.6
32.5°	4281.0	4335.1	4355.0	4292.4	4295.3	4309.5	4283.9	4258.3	4281.0	4289.6	4281.0
35°	4485.8	4537.0	4548.4	4500.1	4474.5	4545.6	4494.4	4579.7	4505.8	4508.6	4431.8
37.5°	4724.8	4739.0	4835.7	4781.7	4758.9	4724.8	4818.7	4807.3	4824.3	4687.8	4756.1
40°	4995.0	5046.2	5100.3	4963.7	4960.9	4992.2	4986.5	5051.9	5020.6	5000.7	4952.4
42.5°	5290.9	5398.9	5407.5	5316.5	5259.6	5253.9	5282.3	5427.4	5430.2	5299.4	5242.5
45°	5683.4	5802.9	5771.6	5595.2	5532.6	5524.1	5663.5	5726.1	5780.1	5728.9	5680.6
47.5°	6172.7	6252.3	6229.6	6067.4	5865.5	5922.3	6058.9	6255.2	6198.3	6130.0	6073.1
50°	6696.1	6789.9	6741.6	6579.4	6386.0	6386.0	6553.8	6804.2	6787.1	6653.4	6602.2
52.5°	7276.3	7412.9	7523.8	7293.4	7131.3	7156.9	7421.4	7512.4	7469.8	7375.9	7333.2
55°	7708.7	7970.4	8198.0	8209.4	8217.9	8215.0	8283.3	8374.3	8070.0	7919.2	7765.6
57.5°	7603.5	8098.4	8877.8	9406.9	9563.4	9645.9	9623.1	9202.1	8482.4	7987.5	8038.7
60°	6852.5	7660.4	8917.6	10615.8	11753.7	11639.9	11224.6	9560.5	8254.9	7418.6	7313.3
62.5°	5467.2	6440.1	8249.2	10957.2	14091.9	14057.7	11884.5	8732.8	6878.1	5819.9	5754.5
64°	4118.9	5142.9	7358.8	10869.0	14911.1	14945.2	11716.7	7714.4	5381.9	4118.9	4019.3
65°	3151.8	4101.8	6485.6	10687.0	14734.7	14754.7	11250.2	6661.9	4090.5	2924.2	2816.1
67.5°	1254.4	1746.6	3518.7	8104.1	12652.5	12598.5	8027.3	3222.9	1564.5	1018.3	998.4
70°	534.8	665.6	1234.5	3840.1	8471.1	8314.6	3456.1	1046.8	580.3	486.4	483.6
72.5°	366.9	406.8	529.1	1186.2	3521.5	3439.1	984.2	486.4	395.4	364.1	364.1
75°	295.8	324.3	384.0	497.8	933.0	898.9	463.7	358.4	315.7	293.0	290.1
77.5°	230.4	258.9	301.5	344.2	426.7	423.8	310.1	270.2	244.6	227.6	221.9
80°	182.1	210.5	238.9	244.6	278.8	273.1	210.5	213.3	199.1	165.0	162.1
82.5°	125.2	170.7	190.6	173.5	165.0	165.0	150.8	150.8	139.4	102.4	93.9
85°	76.8	113.8	119.5	102.4	76.8	76.8	82.5	79.6	74.0	54.0	51.2
87.5°	39.8	54.0	48.4	39.8	25.6	25.6	22.8	17.1	17.1	14.2	14.2
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)