

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: P479225

Luminaire Tested: **IFLD-S-SA6B-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479225
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

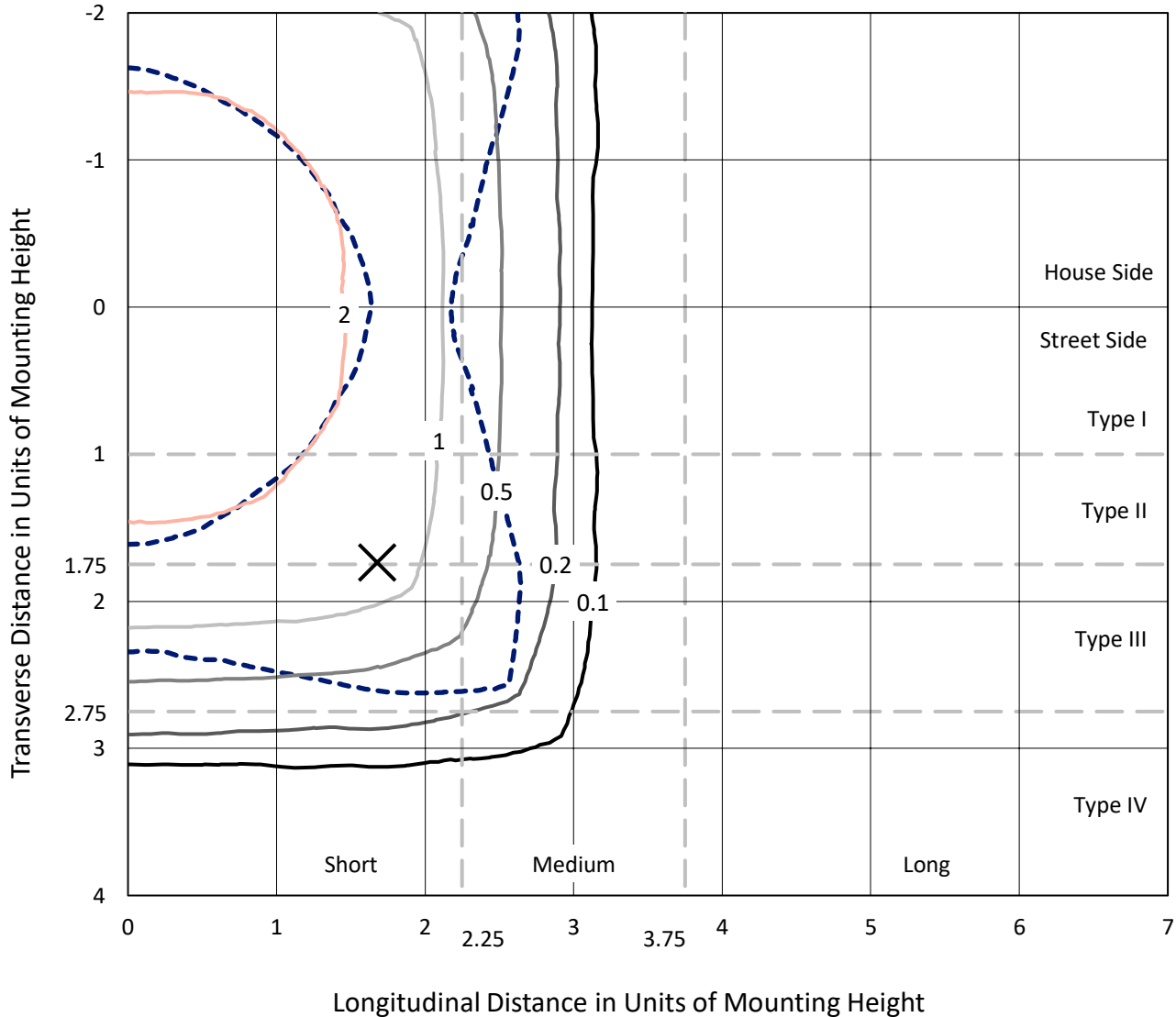
Lumens per Lamp: N/A
Luminaire Lumens: 28178.1 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 244.9
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

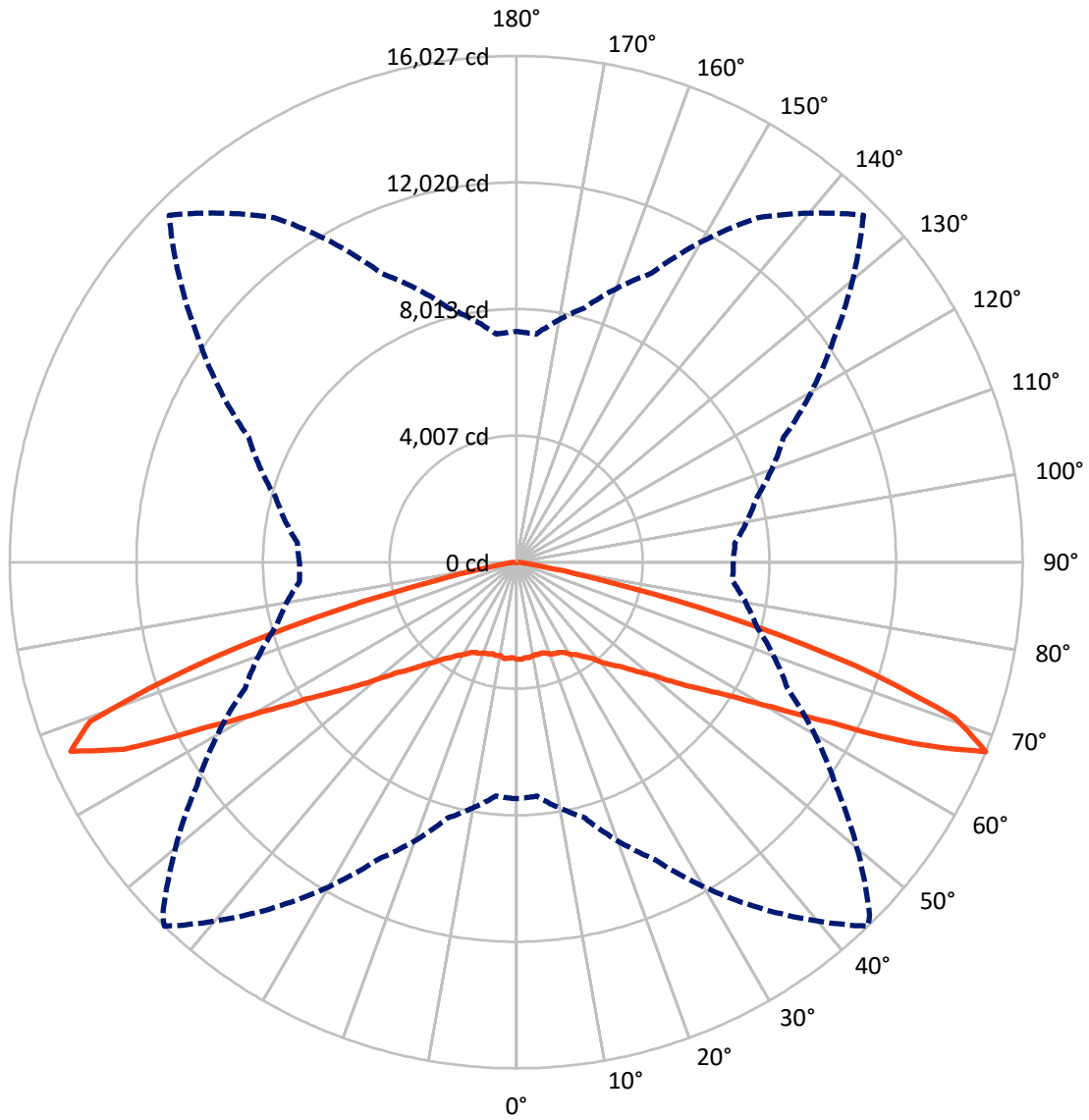
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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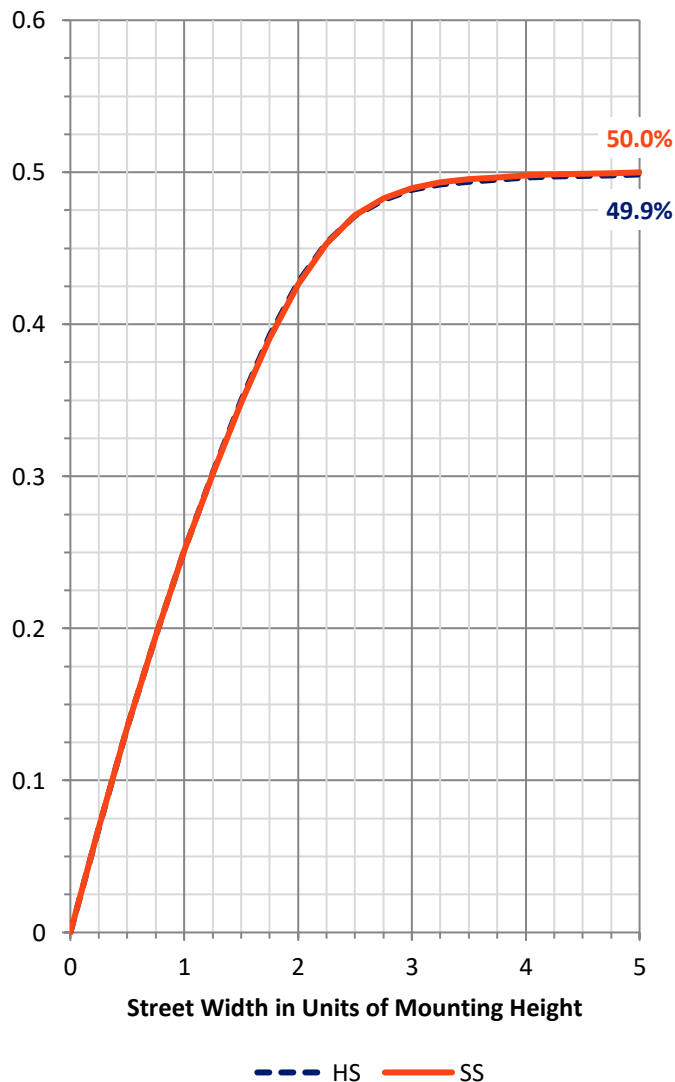
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14053.0	0.0	14053.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	14125.1	0.0	14125.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	28178.1	0.0	28178.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.3	1.0
10°-20°	850.9	3.0
20°-30°	1447.1	5.1
30°-40°	2294.4	8.1
40°-50°	3741.2	13.3
50°-60°	6389.4	22.7
60°-70°	9718.2	34.5
70°-80°	3275.6	11.6
80°-90°	170.1	0.6
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°	28178.1	100.0
0°-180°	28178.1	100.0

Coefficient of Utilization



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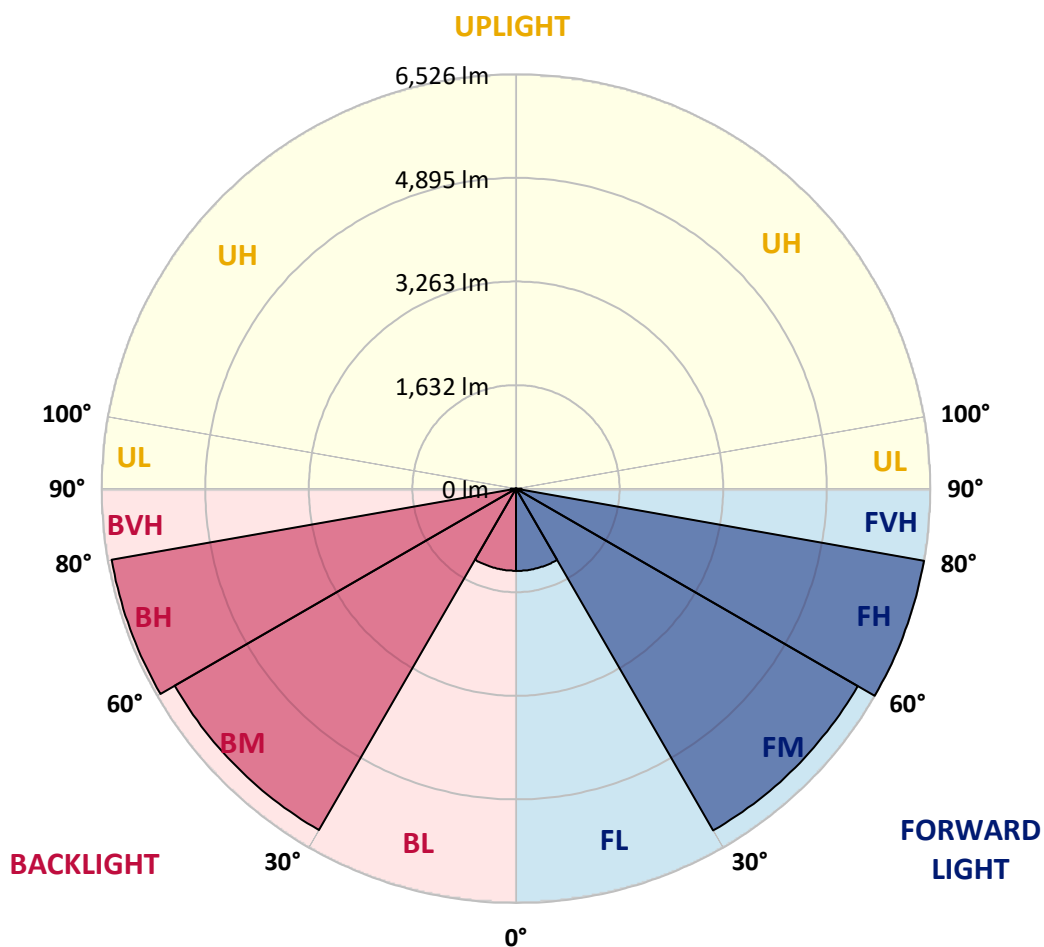
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.0	4.6			
FM (30°-60°)	6215.8	22.1			
FH (60°-80°)	6526.3	23.2			G3/7500
FVH (80°-90°)	87.0	0.3			G1/100
BL (0°-30°)	1293.3	4.6	B3/2500		
BM (30°-60°)	6209.1	22.0	B4/8500		
BH (60°-80°)	6467.5	23.0	B5		G3/7500
BVH (80°-90°)	83.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0
2.5°	3007.2	3042.6	3068.3	3065.1	3074.8	3084.4	3071.5	3090.8	3078.0	3100.5	3113.3
5°	3065.1	3055.5	3058.7	3039.4	3084.4	3032.9	3032.9	3058.7	3090.8	3052.2	3074.8
7.5°	3029.7	3023.3	3007.2	3036.2	3045.8	3045.8	3071.5	3023.3	3078.0	3090.8	3094.0
10°	2991.1	2955.8	3004.0	3032.9	3039.4	2987.9	3010.4	3023.3	3007.2	3023.3	3032.9
12.5°	2959.0	2978.3	2978.3	2978.3	2968.6	3004.0	3026.5	3023.3	2991.1	3020.1	2968.6
15°	2955.8	2946.1	2975.0	3000.8	2984.7	2991.1	3000.8	3029.7	2968.6	2981.5	2981.5
17.5°	2952.5	2965.4	2975.0	2971.8	3026.5	3026.5	3016.9	2997.6	3045.8	3020.1	2984.7
20°	2965.4	2955.8	2981.5	2991.1	3029.7	3106.9	3078.0	3061.9	3036.2	3004.0	3004.0
22.5°	2981.5	2975.0	3010.4	3052.2	3126.2	3145.5	3142.3	3123.0	3078.0	3039.4	3032.9
25°	3039.4	2981.5	3020.1	3100.5	3126.2	3164.8	3190.5	3164.8	3103.7	3113.3	3055.5
27.5°	3126.2	3116.6	3168.0	3222.7	3200.2	3235.6	3213.1	3232.3	3235.6	3187.3	3129.4
30°	3229.1	3200.2	3232.3	3338.5	3348.1	3386.7	3348.1	3296.7	3312.8	3270.9	3242.0
32.5°	3377.1	3367.4	3428.5	3499.3	3512.2	3492.9	3473.6	3502.5	3435.0	3402.8	3351.4
35°	3473.6	3515.4	3589.4	3644.0	3685.8	3666.5	3676.2	3647.2	3663.3	3595.8	3573.3
37.5°	3759.8	3743.7	3759.8	3853.1	3862.7	3853.1	3862.7	3894.9	3872.4	3814.5	3756.6
40°	4030.0	4004.3	4042.8	4149.0	4142.6	4174.7	4110.4	4145.8	4145.8	4036.4	4013.9
42.5°	4232.6	4319.4	4364.5	4451.3	4483.5	4454.5	4441.7	4448.1	4518.9	4390.2	4342.0
45°	4650.7	4647.5	4782.6	4830.8	4740.8	4734.3	4708.6	4785.8	4834.1	4760.1	4740.8
47.5°	5104.2	5126.7	5203.9	5223.2	5277.9	5178.2	5178.2	5187.8	5358.3	5184.6	5094.6
50°	5512.7	5541.6	5696.0	5847.2	5744.3	5638.1	5679.9	5731.4	5824.7	5660.6	5583.4
52.5°	6008.0	6165.6	6268.5	6348.9	6422.9	6348.9	6252.4	6310.3	6493.6	6274.9	6178.5
55°	6722.0	6847.4	6943.9	7091.9	7153.0	7053.3	7043.6	7037.2	7140.1	6908.5	6776.7
57.5°	7519.6	7468.2	7622.6	7850.9	8072.8	7976.3	7947.4	7953.8	7979.6	7651.5	7551.8
60°	8510.2	8568.1	8751.5	8950.9	9185.7	9320.7	9131.0	9021.6	9044.1	8597.1	8442.7
62.5°	9076.3	9205.0	9619.9	10304.9	10777.7	11199.0	11228.0	10517.2	10041.2	9172.8	8516.7
65°	8802.9	8783.6	9565.2	10832.4	12623.9	13849.2	13665.9	11942.0	10279.2	8899.4	8018.2
67.5°	7487.5	7436.0	8381.6	10391.8	13350.7	16026.7	15817.6	12344.0	9475.1	7873.4	6876.4
70°	4824.4	4811.5	5837.5	7921.7	11919.5	14714.4	14791.6	11211.9	7712.6	5766.8	4779.4
72.5°	1752.9	1859.0	2454.0	4258.3	8095.3	11256.9	11305.2	8301.2	4435.2	2666.3	1965.1
75°	646.5	665.8	775.1	1383.0	3689.1	6911.8	7091.9	4026.8	1576.0	868.4	707.6
77.5°	373.1	376.3	414.9	514.6	1093.5	2698.4	2807.8	1222.2	611.1	463.1	427.8
80°	254.1	250.9	292.7	334.5	437.4	765.5	813.7	511.4	386.0	321.6	270.2
82.5°	147.9	157.6	215.5	238.0	267.0	337.7	344.1	318.4	289.5	238.0	176.9
85°	90.1	74.0	119.0	131.9	154.4	151.2	151.2	173.7	186.5	167.2	99.7
87.5°	22.5	22.5	28.9	32.2	41.8	32.2	35.4	67.5	90.1	83.6	51.5
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°	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0	3078.0
2.5°	3084.4	3074.8	3081.2	3116.6	3094.0	3026.5	3042.6	3078.0	3049.0	3032.9	3029.7
5°	3071.5	3090.8	3068.3	3074.8	3097.3	3042.6	3052.2	3097.3	3078.0	3084.4	3049.0
7.5°	3074.8	3084.4	3065.1	3036.2	3036.2	3081.2	3055.5	3061.9	3032.9	3081.2	3016.9
10°	3055.5	3029.7	3007.2	3023.3	3016.9	3004.0	2994.3	3013.6	2984.7	3026.5	2981.5
12.5°	2997.6	3004.0	2997.6	2991.1	3004.0	3036.2	2984.7	2991.1	2946.1	2952.5	2975.0
15°	2975.0	2994.3	2987.9	3023.3	3039.4	2991.1	3029.7	2991.1	2955.8	2936.5	2971.8
17.5°	2984.7	3013.6	3004.0	3029.7	3000.8	3036.2	3042.6	3026.5	2984.7	2968.6	2984.7
20°	2994.3	2984.7	2997.6	3042.6	3084.4	3049.0	3049.0	3039.4	3000.8	2978.3	2978.3
22.5°	3016.9	3000.8	3020.1	3055.5	3068.3	3123.0	3074.8	3052.2	2987.9	2930.0	2984.7
25°	3061.9	3071.5	3084.4	3071.5	3142.3	3135.9	3129.4	3113.3	3013.6	3016.9	3007.2
27.5°	3148.7	3094.0	3110.1	3187.3	3197.0	3222.7	3190.5	3219.5	3113.3	3116.6	3052.2
30°	3254.9	3197.0	3248.4	3316.0	3312.8	3361.0	3344.9	3351.4	3277.4	3235.6	3148.7
32.5°	3370.6	3364.2	3396.4	3438.2	3454.3	3480.0	3476.8	3476.8	3431.8	3322.4	3338.5
35°	3499.3	3544.3	3582.9	3628.0	3634.4	3666.5	3621.5	3628.0	3582.9	3502.5	3528.2
37.5°	3753.4	3750.2	3792.0	3846.7	3853.1	3827.4	3862.7	3846.7	3785.5	3730.9	3689.1
40°	4049.3	3985.0	4023.6	4152.2	4161.9	4116.8	4113.6	4110.4	4065.4	3946.4	3920.6
42.5°	4306.6	4390.2	4383.8	4425.6	4396.6	4374.1	4454.5	4409.5	4374.1	4248.7	4226.2
45°	4637.9	4663.6	4747.2	4882.3	4744.0	4744.0	4798.7	4763.3	4744.0	4650.7	4563.9
47.5°	5049.5	5072.1	5239.3	5248.9	5158.9	5097.8	5268.2	5274.7	5194.3	5123.5	5017.4
50°	5532.0	5541.6	5692.8	5847.2	5747.5	5631.7	5805.4	5872.9	5692.8	5596.3	5464.4
52.5°	6062.7	6033.7	6159.2	6448.6	6352.1	6316.8	6503.3	6519.4	6274.9	6123.8	6159.2
55°	6673.8	6635.2	6976.1	7172.3	7111.2	7046.8	7130.5	7169.1	6972.9	6725.2	6812.1
57.5°	7465.0	7484.3	7654.7	7847.7	7947.4	7963.5	8002.1	7963.5	7764.1	7513.2	7432.8
60°	8256.2	8314.1	8645.3	9008.8	9040.9	9324.0	9272.5	9079.5	8796.5	8439.5	8455.6
62.5°	8548.8	8500.6	9034.5	9922.2	10678.0	11195.8	10967.5	10282.4	9626.3	8976.6	9024.8
65°	7960.3	8079.3	8806.1	10195.6	11835.9	13884.6	12668.9	10774.5	9449.4	8609.9	8516.7
67.5°	6860.3	6950.4	7873.4	9340.0	12250.8	15537.8	13312.1	10079.8	8333.3	7246.3	7304.1
70°	4779.4	4824.4	5728.2	7651.5	11109.0	14663.0	12009.5	7741.6	5753.9	4586.4	4650.7
72.5°	1923.3	2032.7	2627.7	4608.9	8201.5	11141.2	8085.7	4062.1	2386.5	1775.4	1611.4
75°	710.8	714.0	839.4	1585.6	3894.9	7001.8	3647.2	1305.8	762.3	624.0	595.0
77.5°	411.7	408.5	437.4	572.5	1128.9	2733.8	1035.6	511.4	414.9	373.1	357.0
80°	257.3	254.1	299.1	379.5	495.3	749.4	437.4	318.4	279.8	241.2	241.2
82.5°	164.0	167.2	234.8	279.8	302.3	331.3	254.1	225.1	209.1	138.3	135.1
85°	106.1	96.5	164.0	186.5	167.2	147.9	141.5	119.0	109.4	67.5	74.0
87.5°	48.2	51.5	83.6	93.3	61.1	35.4	35.4	25.7	25.7	16.1	16.1
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)