

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: P478978

Luminaire Tested: **IFLD-S-SA3D-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478978
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

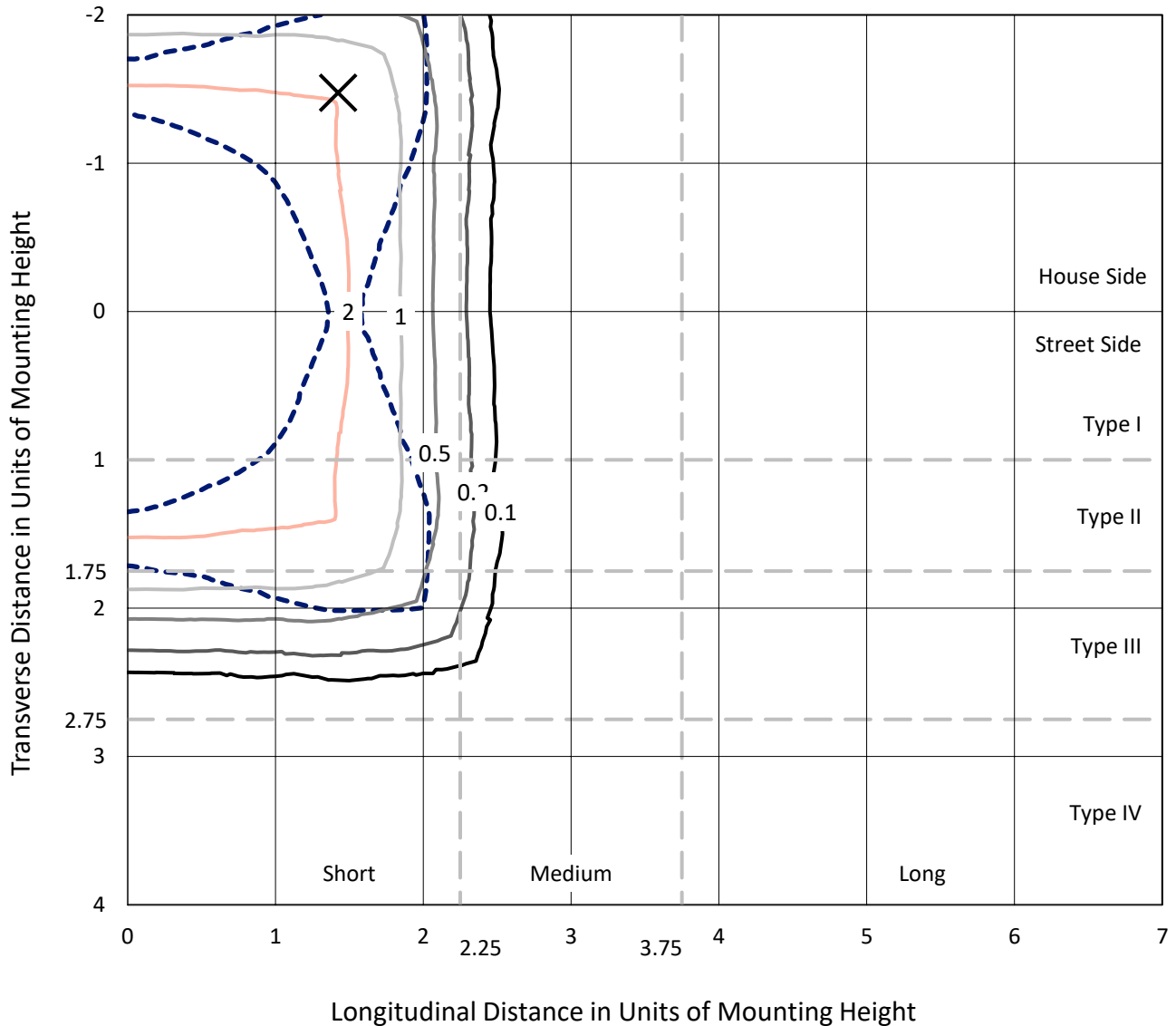
Lumens per Lamp: N/A
Luminaire Lumens: 23778.1 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

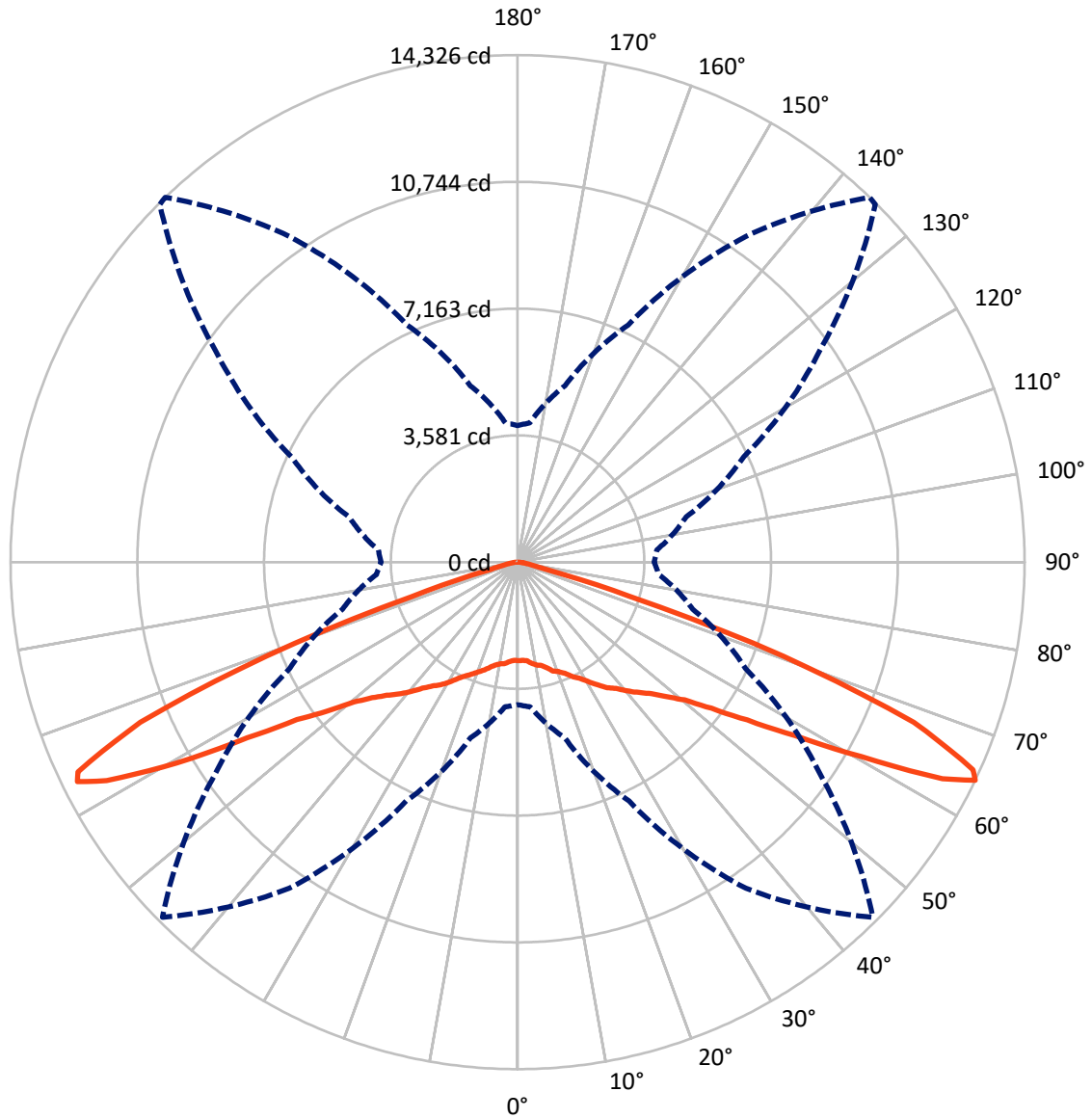
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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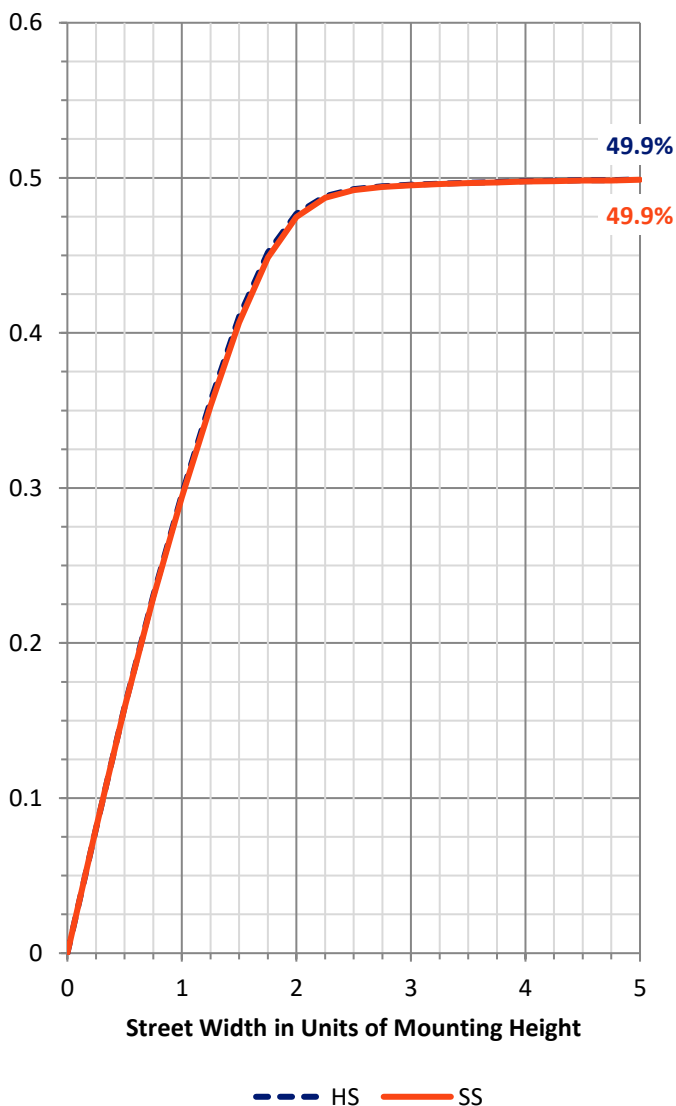
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11900.4	0.0	11900.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11877.7	0.0	11877.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	23778.1	0.0	23778.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	1.2
10°-20°	881.6	3.7
20°-30°	1656.9	7.0
30°-40°	2732.6	11.5
40°-50°	4273.6	18.0
50°-60°	6905.0	29.0
60°-70°	6217.5	26.1
70°-80°	736.5	3.1
80°-90°	100.8	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°	23778.1	100.0
0°-180°	23778.1	100.0

Coefficient of Utilization



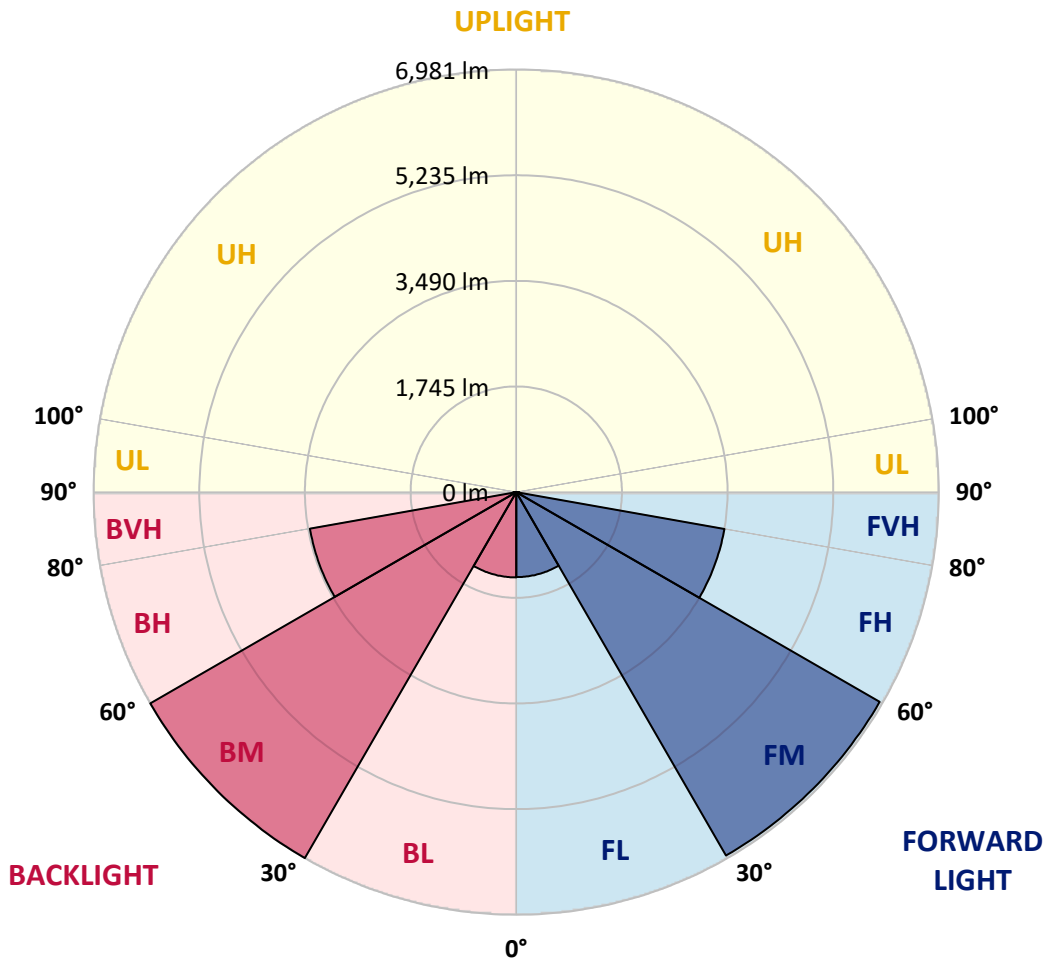
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1403.3	5.9			
FM (30°-60°)	6930.6	29.1			
FH (60°-80°)	3492.1	14.7			G2/5000
FVH (80°-90°)	51.7	0.2			G1/100
BL (0°-30°)	1408.8	5.9	B3/2500		
BM (30°-60°)	6980.6	29.4	B4/8500		
BH (60°-80°)	3461.9	14.6	B4/5000		G2/5000
BVH (80°-90°)	49.1	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°	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9
2.5°	2751.2	2756.7	2805.7	2786.7	2803.0	2773.0	2794.8	2841.2	2786.7	2827.6	2841.2
5°	2781.2	2789.4	2789.4	2808.5	2819.4	2813.9	2827.6	2808.5	2860.3	2838.5	2871.2
7.5°	2890.3	2876.6	2854.8	2871.2	2873.9	2887.5	2901.2	2925.7	2917.5	2898.4	2931.2
10°	2909.4	2898.4	2931.2	2933.9	2920.3	2909.4	2923.0	2923.0	2947.5	2953.0	2953.0
12.5°	2942.1	2953.0	2950.3	2972.1	2974.8	2966.6	2988.4	3029.3	3018.4	3026.6	3007.5
15°	3067.5	3053.9	3051.1	3073.0	3108.4	3056.6	3094.8	3092.0	3081.1	3097.5	3053.9
17.5°	3176.6	3132.9	3152.0	3187.5	3173.8	3184.7	3233.8	3190.2	3201.1	3182.0	3168.4
20°	3272.0	3236.6	3239.3	3252.9	3252.9	3285.6	3304.7	3288.4	3277.5	3274.7	3280.2
22.5°	3378.3	3337.4	3340.2	3397.4	3416.5	3405.6	3392.0	3419.2	3424.7	3402.9	3427.4
25°	3457.4	3501.0	3514.7	3541.9	3501.0	3531.0	3520.1	3571.9	3604.7	3561.0	3591.0
27.5°	3664.6	3645.6	3681.0	3678.3	3711.0	3681.0	3700.1	3716.4	3730.1	3732.8	3719.2
30°	3850.1	3858.2	3822.8	3918.2	3841.9	3891.0	3923.7	3931.9	3948.2	3948.2	3907.3
32.5°	4046.4	4030.0	4087.3	4065.5	4051.8	4090.0	4054.6	4166.4	4100.9	4139.1	4092.7
35°	4267.2	4267.2	4289.1	4349.0	4267.2	4242.7	4308.1	4354.5	4354.5	4286.3	4302.7
37.5°	4515.4	4493.6	4520.8	4597.2	4534.5	4452.7	4572.6	4591.7	4578.1	4559.0	4526.3
40°	4689.9	4684.4	4739.0	4839.8	4749.9	4733.5	4755.3	4807.1	4823.5	4842.6	4798.9
42.5°	4984.4	5008.9	5167.0	5142.5	5068.9	5011.6	5006.2	5199.8	5153.4	5104.3	5079.8
45°	5420.6	5398.8	5480.6	5483.3	5387.9	5262.5	5289.7	5467.0	5546.0	5437.0	5477.9
47.5°	5766.9	5777.8	5835.1	5952.3	5731.5	5600.6	5701.5	5987.8	5963.2	5922.3	5960.5
50°	6230.4	6279.5	6459.5	6418.6	6222.3	6061.4	6282.2	6552.2	6582.2	6432.2	6404.9
52.5°	6871.2	6947.6	7045.7	7078.4	6890.3	6833.0	6846.7	7182.0	7108.4	6963.9	6871.2
55°	7432.9	7468.3	7648.3	7918.2	7904.6	7629.2	7787.4	7912.8	7612.9	7315.7	7340.2
57.5°	7672.8	7689.2	8190.9	8730.8	9052.5	9115.3	8935.3	8512.7	7798.3	7225.7	7190.2
60°	7075.7	7231.1	7836.4	9055.3	10524.9	11250.2	10053.2	8580.8	7364.7	6669.4	6617.6
62.5°	5655.1	5663.3	6563.1	8411.8	11441.1	13341.6	10481.3	7940.1	6208.6	5420.6	5213.4
64°	4027.3	4103.6	5137.0	7446.5	11250.2	14192.3	10429.5	7103.0	5118.0	4000.0	3855.5
65°	2890.3	2996.6	3994.6	6464.9	10803.1	14091.4	10274.1	6383.1	4139.1	3053.9	2906.6
67.5°	1063.4	1107.0	1567.8	3233.8	7757.4	12008.2	8141.8	3509.2	1818.7	1295.2	1164.3
70°	493.5	496.3	580.8	1068.9	3392.0	8030.0	3885.5	1317.0	684.4	542.6	504.4
72.5°	362.6	370.8	406.3	493.5	998.0	3400.2	1276.1	539.9	400.8	354.5	346.3
75°	294.5	299.9	310.8	357.2	460.8	910.7	518.1	373.6	319.0	286.3	275.4
77.5°	226.3	226.3	250.9	272.7	305.4	425.4	343.6	297.2	259.0	226.3	218.1
80°	163.6	166.3	196.3	212.7	207.2	280.8	248.1	245.4	212.7	177.2	163.6
82.5°	95.4	103.6	141.8	152.7	147.2	166.3	180.0	190.9	166.3	122.7	111.8
85°	54.5	57.3	81.8	84.5	84.5	79.1	103.6	114.5	111.8	76.3	68.2
87.5°	16.4	16.4	21.8	21.8	24.5	27.3	40.9	49.1	54.5	38.2	35.4
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°	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9	2783.9
2.5°	2827.6	2786.7	2789.4	2800.3	2764.8	2778.5	2819.4	2789.4	2781.2	2764.8	2756.7
5°	2813.9	2857.5	2841.2	2846.6	2838.5	2800.3	2794.8	2819.4	2833.0	2808.5	2857.5
7.5°	2909.4	2890.3	2868.5	2876.6	2857.5	2890.3	2912.1	2863.0	2887.5	2873.9	2846.6
10°	2963.9	2928.4	2944.8	2939.3	2925.7	2958.4	2936.6	2931.2	2909.4	2879.4	2923.0
12.5°	2983.0	3023.9	3051.1	3004.8	3013.0	2996.6	2983.0	2983.0	2958.4	2950.3	2958.4
15°	3067.5	3102.9	3092.0	3127.5	3081.1	3097.5	3113.9	3073.0	3094.8	3034.8	3081.1
17.5°	3222.9	3192.9	3231.1	3184.7	3201.1	3233.8	3182.0	3182.0	3198.4	3165.7	3124.8
20°	3321.1	3307.4	3293.8	3296.5	3269.3	3299.3	3282.9	3274.7	3250.2	3261.1	3282.9
22.5°	3413.8	3394.7	3400.2	3408.3	3427.4	3413.8	3405.6	3413.8	3353.8	3408.3	3332.0
25°	3528.3	3580.1	3563.8	3599.2	3544.7	3580.1	3577.4	3525.6	3558.3	3536.5	3520.1
27.5°	3719.2	3691.9	3716.4	3672.8	3711.0	3713.7	3681.0	3768.3	3730.1	3724.6	3713.7
30°	3964.6	3945.5	3929.1	3904.6	3934.6	3910.0	3937.3	3945.5	3910.0	3882.8	3831.0
32.5°	4103.6	4155.4	4174.5	4114.5	4117.3	4130.9	4106.4	4081.8	4103.6	4111.8	4103.6
35°	4300.0	4349.0	4359.9	4313.6	4289.1	4357.2	4308.1	4389.9	4319.0	4321.8	4248.2
37.5°	4529.0	4542.6	4635.3	4583.5	4561.7	4529.0	4619.0	4608.1	4624.4	4493.6	4559.0
40°	4788.0	4837.1	4888.9	4758.0	4755.3	4785.3	4779.9	4842.6	4812.6	4793.5	4747.1
42.5°	5071.6	5175.2	5183.4	5096.1	5041.6	5036.2	5063.4	5202.5	5205.2	5079.8	5025.3
45°	5447.9	5562.4	5532.4	5363.4	5303.4	5295.2	5428.8	5488.8	5540.6	5491.5	5445.2
47.5°	5916.9	5993.2	5971.4	5816.0	5622.4	5676.9	5807.8	5995.9	5941.4	5876.0	5821.4
50°	6418.6	6508.6	6462.2	6306.8	6121.4	6121.4	6282.2	6522.2	6505.8	6377.7	6328.6
52.5°	6974.8	7105.7	7212.0	6991.2	6835.8	6860.3	7113.9	7201.1	7160.2	7070.3	7029.4
55°	7389.3	7640.1	7858.3	7869.2	7877.3	7874.6	7940.1	8027.3	7735.6	7591.0	7443.8
57.5°	7288.4	7762.8	8509.9	9017.1	9167.1	9246.1	9224.3	8820.8	8130.9	7656.5	7705.6
60°	6568.5	7342.9	8548.1	10175.9	11266.6	11157.5	10759.4	9164.3	7912.8	7111.2	7010.3
62.5°	5240.7	6173.2	7907.3	10503.1	13507.9	13475.2	11392.0	8370.9	6593.1	5578.8	5516.1
64°	3948.2	4929.8	7053.9	10418.6	14293.2	14325.9	11231.1	7394.7	5158.9	3948.2	3852.8
65°	3021.1	3931.9	6216.8	10244.1	14124.1	14143.2	10784.0	6385.9	3920.9	2803.0	2699.4
67.5°	1202.5	1674.2	3372.9	7768.3	12128.2	12076.4	7694.7	3089.3	1499.7	976.1	957.1
70°	512.6	638.0	1183.4	3681.0	8120.0	7970.1	3312.9	1003.4	556.2	466.3	463.5
72.5°	351.7	389.9	507.2	1137.0	3375.6	3296.5	943.4	466.3	379.0	349.0	349.0
75°	283.6	310.8	368.1	477.2	894.3	861.6	444.4	343.6	302.7	280.8	278.1
77.5°	220.9	248.1	289.0	329.9	409.0	406.3	297.2	259.0	234.5	218.1	212.7
80°	174.5	201.8	229.0	234.5	267.2	261.8	201.8	204.5	190.9	158.1	155.4
82.5°	120.0	163.6	182.7	166.3	158.1	158.1	144.5	144.5	133.6	98.2	90.0
85°	73.6	109.1	114.5	98.2	73.6	73.6	79.1	76.3	70.9	51.8	49.1
87.5°	38.2	51.8	46.4	38.2	24.5	24.5	21.8	16.4	16.4	13.6	13.6
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)