

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: P480344

Luminaire Tested: **IFLD-S-SA3E-722-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480344
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

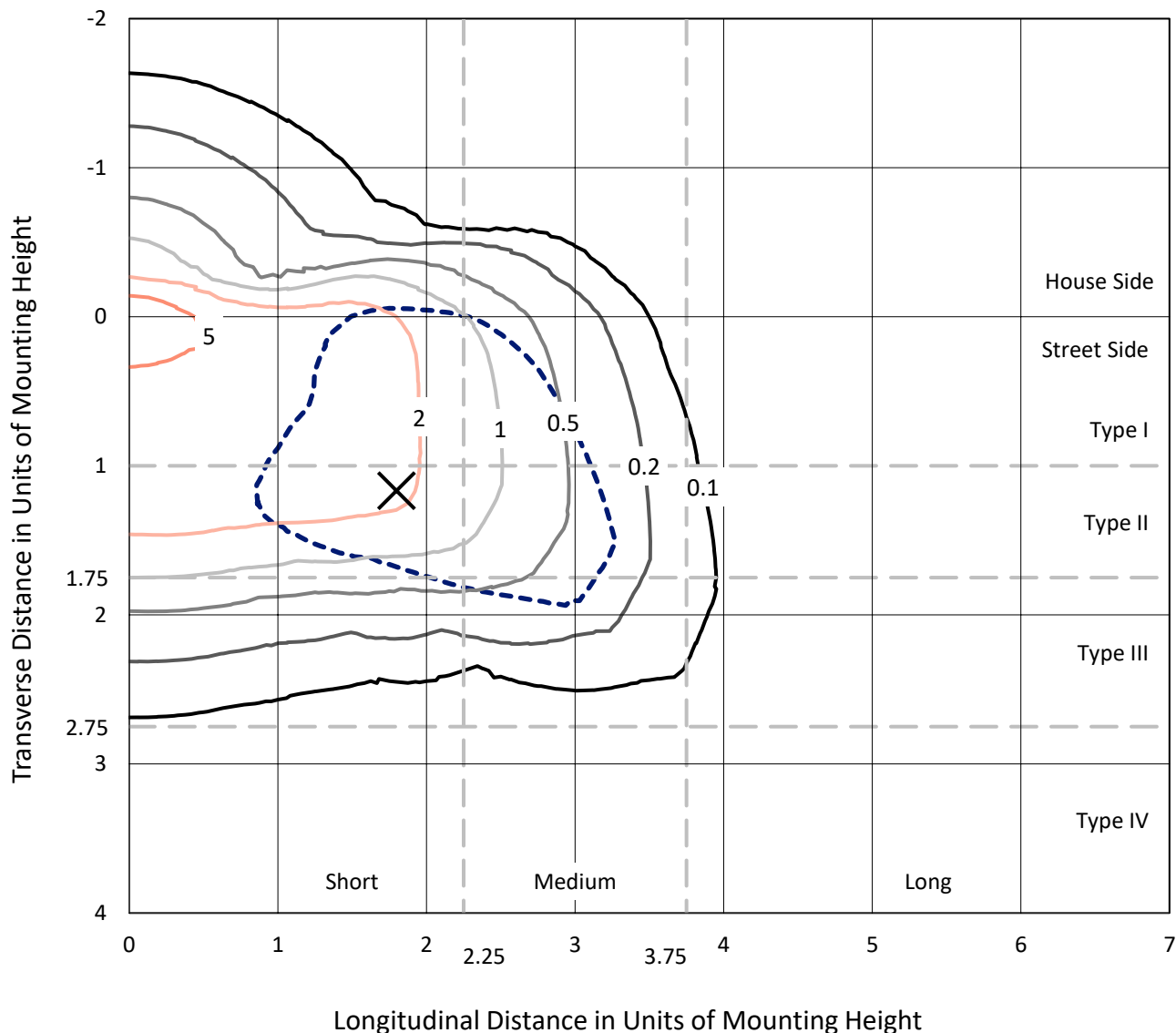
Lumens per Lamp: N/A
Luminaire Lumens: 19604.8 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (A_{in}): 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

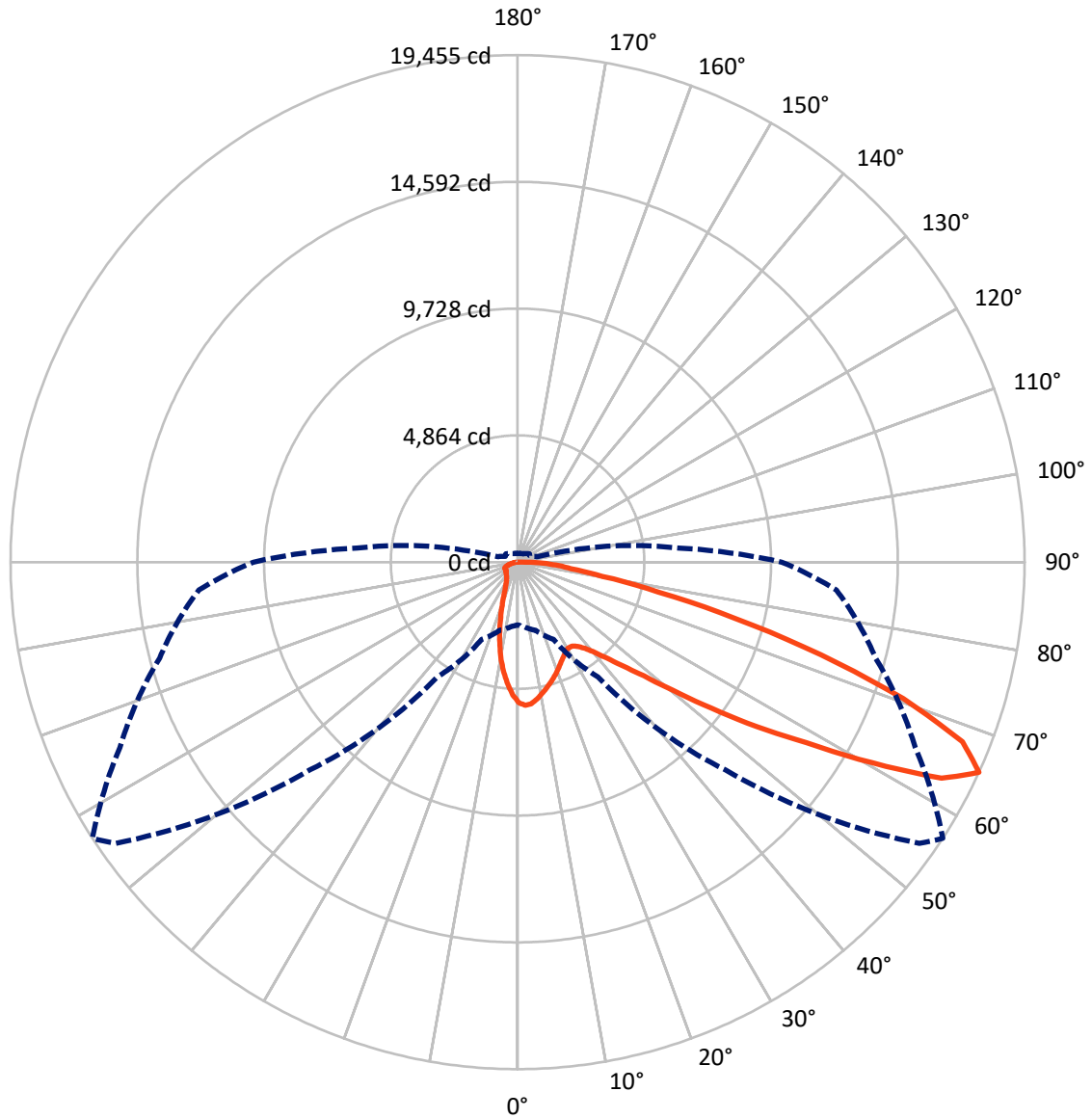
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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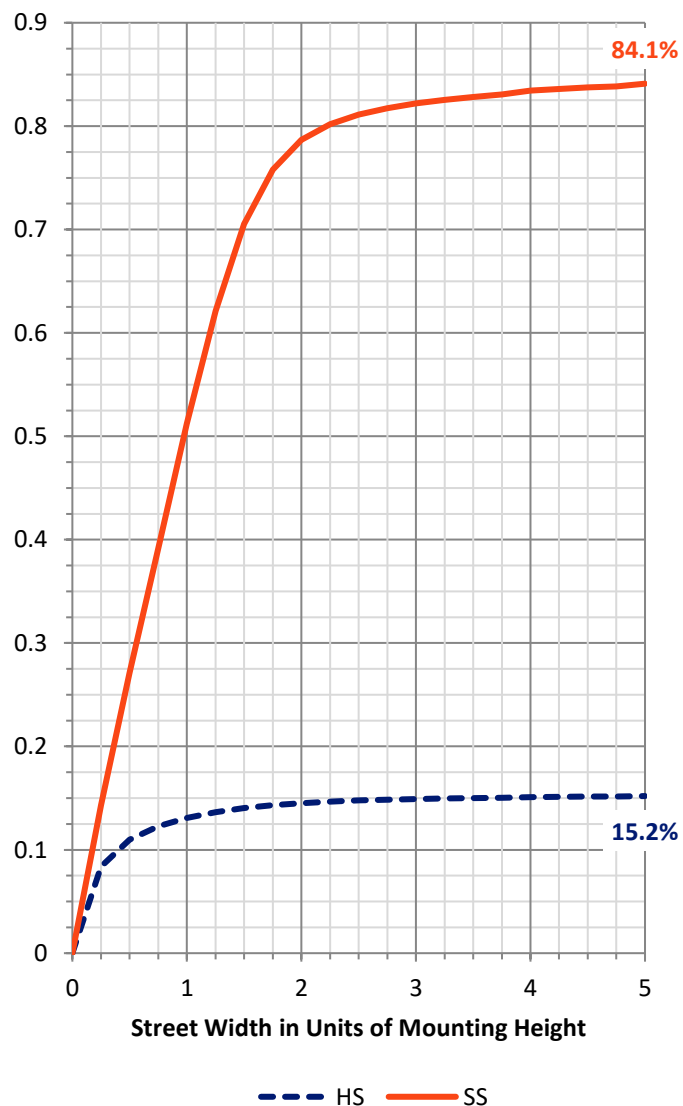
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3006.6	0.0	3006.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	16598.2	0.0	16598.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	19604.8	0.0	19604.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.5	2.3
10°-20°	971.6	5.0
20°-30°	1256.2	6.4
30°-40°	1690.4	8.6
40°-50°	2695.5	13.7
50°-60°	4760.9	24.3
60°-70°	5237.6	26.7
70°-80°	2191.0	11.2
80°-90°	350.2	1.8
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°	19604.8	100.0
0°-180°	19604.8	100.0

Coefficient of Utilization



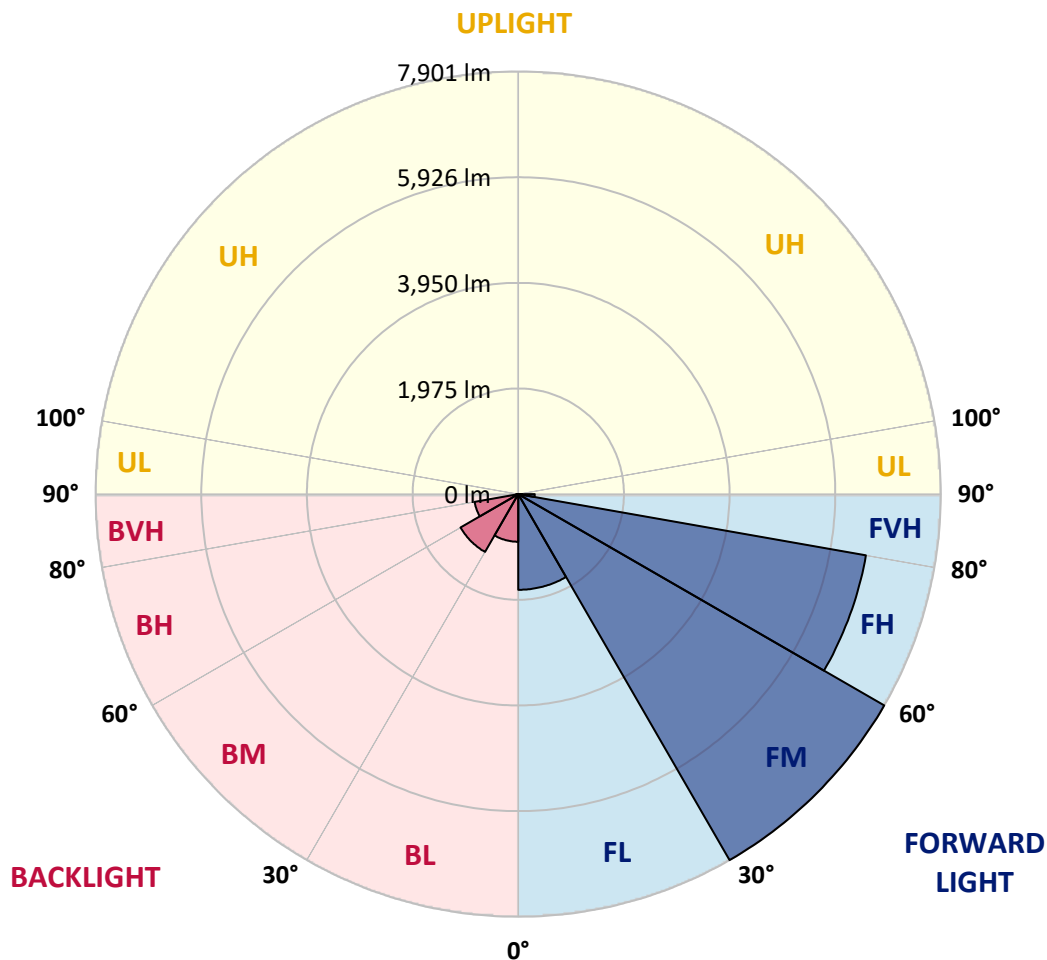
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.9	9.1			
FM (30°-60°)	7900.7	40.3			
FH (60°-80°)	6599.6	33.7			G3/7500
FVH (80°-90°)	309.1	1.6			G3/500
BL (0°-30°)	890.4	4.5	B2/1000		
BM (30°-60°)	1246.1	6.4	B2/2500		
BH (60°-80°)	829.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	41.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1
2.5°	5536.6	5545.5	5545.5	5563.1	5503.5	5532.2	5527.8	5501.3	5510.2	5463.8	5417.5
5°	5380.0	5373.4	5408.7	5413.1	5459.4	5472.7	5483.7	5466.0	5470.5	5369.0	5324.9
7.5°	4978.6	4976.4	5035.9	5086.6	5183.7	5274.1	5333.7	5316.1	5340.3	5276.3	5172.7
10°	4502.1	4552.8	4614.6	4665.3	4844.0	4958.7	5113.1	5128.6	5221.2	5205.8	5018.3
12.5°	4144.8	4166.8	4213.1	4358.7	4522.0	4711.7	4932.2	4952.1	5042.5	5086.6	4923.4
15°	3851.4	3871.2	3930.8	4038.9	4222.0	4447.0	4727.1	4777.8	4958.7	4974.1	4799.9
17.5°	3637.4	3652.9	3692.6	3800.6	3950.6	4239.6	4504.3	4594.7	4833.0	4908.0	4671.9
20°	3553.6	3520.5	3542.6	3610.9	3760.9	3983.7	4325.6	4405.0	4709.4	4857.2	4550.6
22.5°	3516.1	3487.4	3500.7	3496.2	3615.4	3774.2	4133.7	4217.5	4592.5	4797.7	4442.5
25°	3544.8	3544.8	3531.5	3520.5	3533.7	3637.4	3926.4	4056.5	4435.9	4746.9	4332.3
27.5°	3699.2	3639.6	3646.2	3599.9	3586.7	3586.7	3833.7	3910.9	4385.2	4718.3	4241.8
30°	3798.4	3827.1	3829.3	3760.9	3692.6	3569.0	3747.7	3822.7	4343.3	4753.6	4188.9
32.5°	4052.1	4038.9	4001.4	3988.1	3886.7	3747.7	3789.6	3840.4	4319.0	4833.0	4204.3
35°	4305.8	4299.2	4301.4	4294.8	4188.9	3983.7	3902.1	3970.5	4363.1	4971.9	4257.3
37.5°	4568.3	4585.9	4660.9	4660.9	4548.4	4325.6	4217.5	4197.7	4524.2	5199.1	4383.0
40°	4830.8	4874.9	4969.7	5119.7	4960.9	4753.6	4579.3	4548.4	4718.3	5503.5	4685.2
42.5°	5082.2	5155.0	5342.5	5565.3	5512.4	5305.0	5073.4	5038.1	5117.5	5955.7	5106.5
45°	5404.3	5466.0	5761.6	6103.5	6176.3	5993.2	5721.9	5693.2	5688.8	6617.5	5686.6
47.5°	5894.0	5960.2	6255.7	6599.8	6824.8	6853.5	6549.1	6518.2	6412.3	7510.9	6535.9
50°	6507.2	6615.3	6864.5	7266.0	7592.5	7899.1	7813.1	7722.6	7515.3	8549.8	7612.3
52.5°	6955.0	7087.3	7424.8	7938.8	8514.5	9002.0	9310.8	9310.8	8834.4	9690.2	8907.1
55°	7074.1	7153.5	7579.2	8322.6	9308.6	10541.7	11188.0	11139.4	10404.9	10890.2	10413.7
57.5°	6599.8	6703.5	7219.7	7998.3	9725.5	11982.1	13051.9	13062.9	12121.0	12284.3	11900.5
60°	5294.0	5327.1	5935.9	6977.0	9324.0	13142.3	15597.4	15639.3	14073.2	13526.2	12657.1
62.5°	3659.5	3765.4	4224.2	5137.4	7724.8	13012.2	18052.5	18259.9	15637.1	14181.3	12776.2
65°	2408.8	2472.7	2717.6	3273.5	5377.8	11278.4	18815.7	19455.4	16832.7	14218.8	12277.7
67.5°	1747.0	1758.0	1830.8	2117.6	3231.5	8110.8	17512.1	18414.3	17280.5	13905.6	11108.6
70°	1411.7	1420.6	1447.0	1630.1	2086.7	5075.6	14282.8	15696.7	15937.1	12421.0	8946.8
72.5°	1147.0	1158.1	1191.1	1363.2	1720.5	2823.5	10444.6	12167.4	12963.7	9189.5	5946.9
75°	902.2	911.0	990.4	1160.3	1616.9	1938.9	6928.5	8616.0	8724.1	5371.2	2783.8
77.5°	617.6	633.1	730.1	983.8	1522.0	1696.3	4319.0	5519.0	4952.1	2102.2	957.3
80°	392.6	414.7	472.0	745.6	1345.6	1619.1	2686.7	3295.5	2168.3	719.1	461.0
82.5°	231.6	253.7	311.0	483.1	1056.6	1502.2	1892.6	2062.5	1016.9	368.4	277.9
85°	127.9	143.4	187.5	291.2	619.8	1334.5	1515.4	1480.1	582.3	196.3	174.3
87.5°	41.9	48.5	68.4	116.9	255.9	628.7	908.8	853.7	302.2	90.4	68.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1	5391.1
2.5°	5386.6	5380.0	5280.8	5205.8	5077.8	4971.9	4930.0	4872.7	4870.5	4828.6	4817.5
5°	5256.5	5188.1	5035.9	4890.3	4663.1	4510.9	4372.0	4274.9	4235.2	4149.2	4129.3
7.5°	5088.9	4998.4	4764.6	4491.1	4224.2	3985.9	3769.8	3553.6	3432.3	3390.4	3344.0
10°	4914.6	4755.8	4409.5	4102.8	3730.1	3363.9	3024.2	2719.8	2554.4	2437.4	2386.7
12.5°	4775.6	4563.9	4122.7	3663.9	3172.0	2682.3	2287.4	1967.6	1780.1	1691.9	1652.2
15°	4619.0	4338.9	3809.5	3229.3	2616.1	2060.2	1674.2	1422.8	1347.8	1305.9	1299.2
17.5°	4453.6	4129.3	3469.8	2801.4	2073.5	1550.7	1301.4	1200.0	1166.9	1149.2	1140.4
20°	4299.2	3941.8	3121.3	2324.9	1623.5	1244.1	1127.2	1074.2	1072.0	1080.9	1078.7
22.5°	4080.8	3697.0	2777.1	1883.8	1297.0	1083.1	1008.1	994.8	1008.1	1019.1	1023.5
25°	3957.3	3496.2	2393.3	1495.6	1072.0	961.7	937.5	933.1	952.9	966.2	963.9
27.5°	3829.3	3288.9	2036.0	1197.8	939.7	875.7	871.3	875.7	895.6	915.4	913.2
30°	3730.1	3123.5	1700.7	1001.4	838.2	814.0	809.5	814.0	825.0	827.2	827.2
32.5°	3648.4	2927.1	1416.1	869.1	776.5	756.6	761.0	758.8	761.0	763.2	765.4
35°	3599.9	2810.2	1182.3	787.5	725.7	710.3	708.1	701.5	703.7	705.9	703.7
37.5°	3703.6	2752.9	997.0	730.1	690.4	677.2	672.8	668.4	661.7	661.7	661.7
40°	3860.2	2722.0	884.5	692.6	664.0	648.5	635.3	630.9	630.9	633.1	635.3
42.5°	4171.2	2772.7	807.3	664.0	630.9	613.2	600.0	602.2	608.8	615.4	611.0
45°	4621.2	2927.1	772.0	641.9	611.0	586.8	577.9	575.7	582.3	593.4	602.2
47.5°	5210.2	3167.6	758.8	622.0	597.8	564.7	553.7	560.3	569.1	584.5	577.9
50°	6174.1	3708.0	769.8	604.4	577.9	553.7	540.4	533.8	540.4	551.5	555.9
52.5°	7433.6	4689.6	811.7	595.6	564.7	544.8	522.8	511.8	518.4	527.2	527.2
55°	8940.2	6030.7	928.7	584.5	542.6	531.6	507.3	485.3	489.7	489.7	487.5
57.5°	10268.1	7043.2	1067.6	569.1	529.4	514.0	483.1	456.6	452.2	454.4	456.6
60°	10863.7	7312.3	1133.8	564.7	529.4	491.9	450.0	423.5	416.9	412.5	412.5
62.5°	10760.0	6846.9	999.2	544.8	542.6	474.3	419.1	390.4	381.6	372.8	375.0
65°	10133.6	6182.9	787.5	518.4	544.8	463.2	388.2	359.6	344.1	333.1	330.9
67.5°	8988.8	5278.6	624.3	498.5	522.8	443.4	361.8	328.7	315.4	304.4	300.0
70°	7032.2	4138.1	542.6	472.0	469.8	394.8	330.9	302.2	282.3	269.1	269.1
72.5°	4559.5	2616.1	465.4	419.1	405.9	330.9	286.8	269.1	253.7	242.6	242.6
75°	2064.7	1215.4	375.0	350.7	330.9	264.7	242.6	233.8	220.6	209.6	209.6
77.5°	741.2	518.4	280.1	275.7	247.1	205.1	196.3	189.7	180.9	169.8	169.8
80°	414.7	328.7	209.6	200.7	172.1	152.2	141.2	141.2	136.8	130.1	127.9
82.5°	262.5	214.0	154.4	134.6	112.5	101.5	97.1	94.9	92.6	83.8	81.6
85°	165.4	145.6	101.5	79.4	66.2	50.7	48.5	46.3	41.9	37.5	37.5
87.5°	75.0	83.8	39.7	24.3	17.6	11.0	6.6	2.2	0.0	0.0	0.0
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)