

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: P480361

Luminaire Tested: **IFLD-M-SA4B-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480361
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

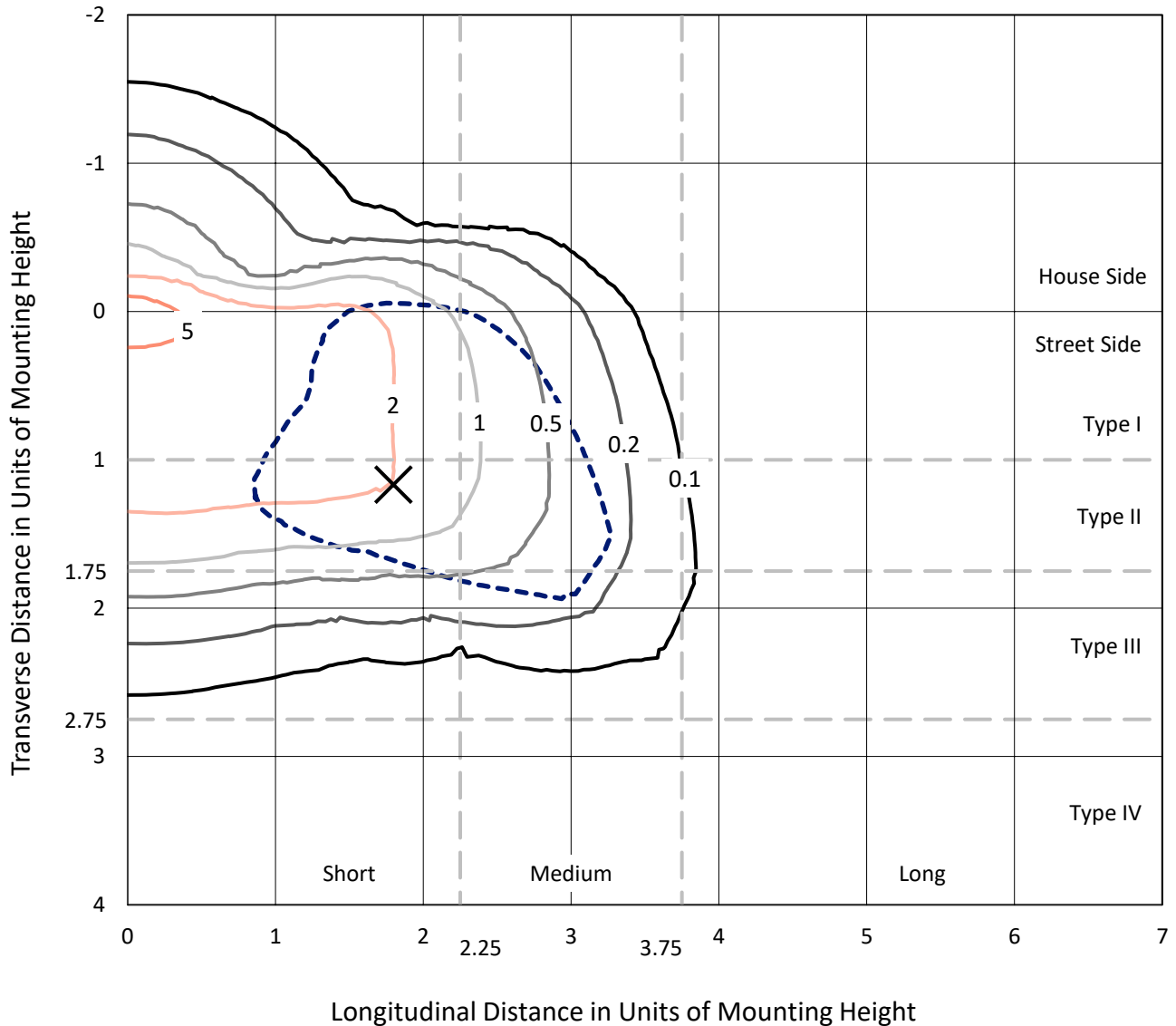
Lumens per Lamp: N/A
Luminaire Lumens: 16600.2 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

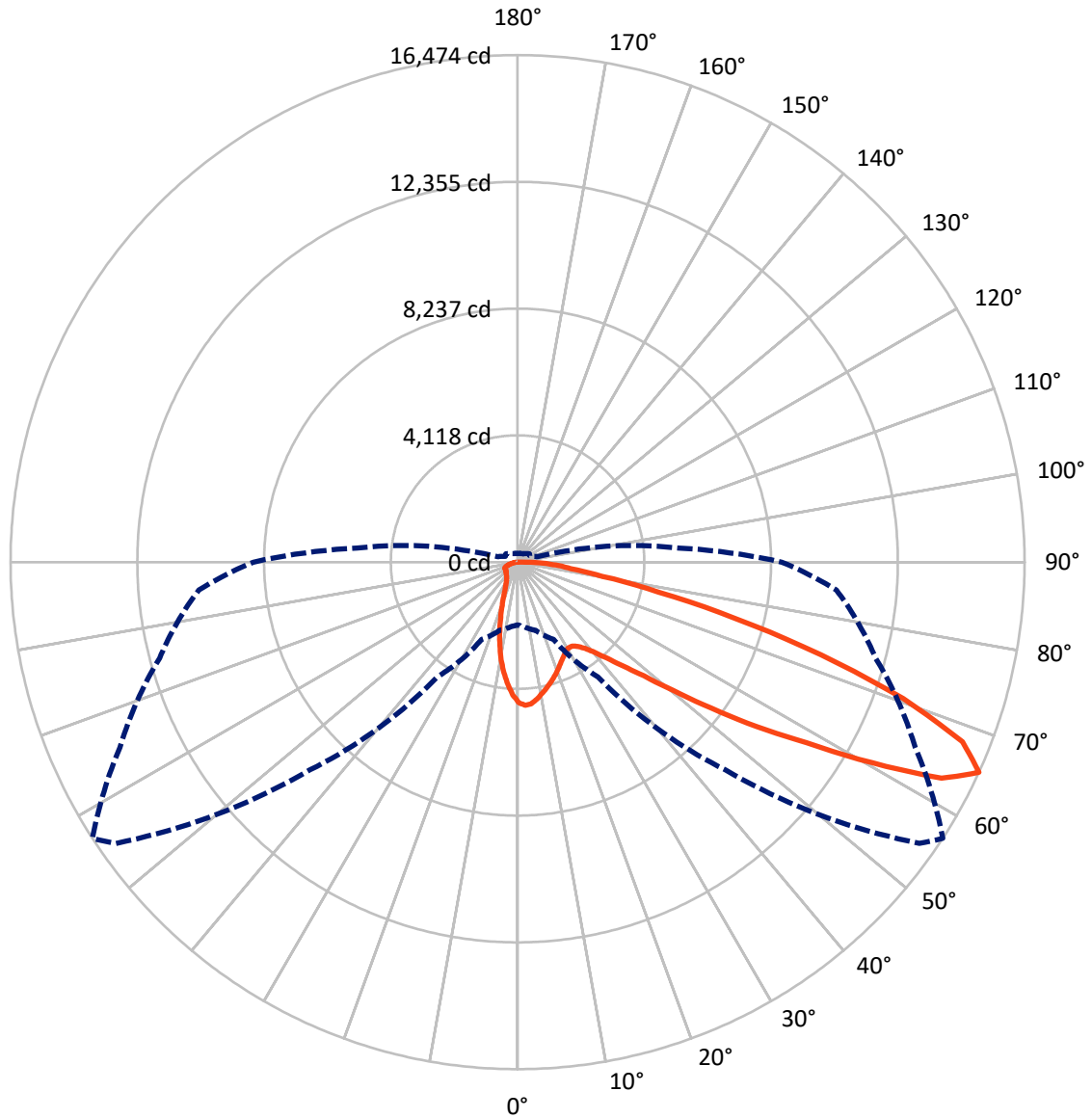
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2545.8	0.0	2545.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14054.4	0.0	14054.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	16600.2	0.0	16600.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.3	2.3
10°-20°	822.7	5.0
20°-30°	1063.7	6.4
30°-40°	1431.4	8.6
40°-50°	2282.4	13.7
50°-60°	4031.2	24.3
60°-70°	4434.9	26.7
70°-80°	1855.2	11.2
80°-90°	296.5	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°	16600.2	100.0
0°-180°	16600.2	100.0

Coefficient of Utilization



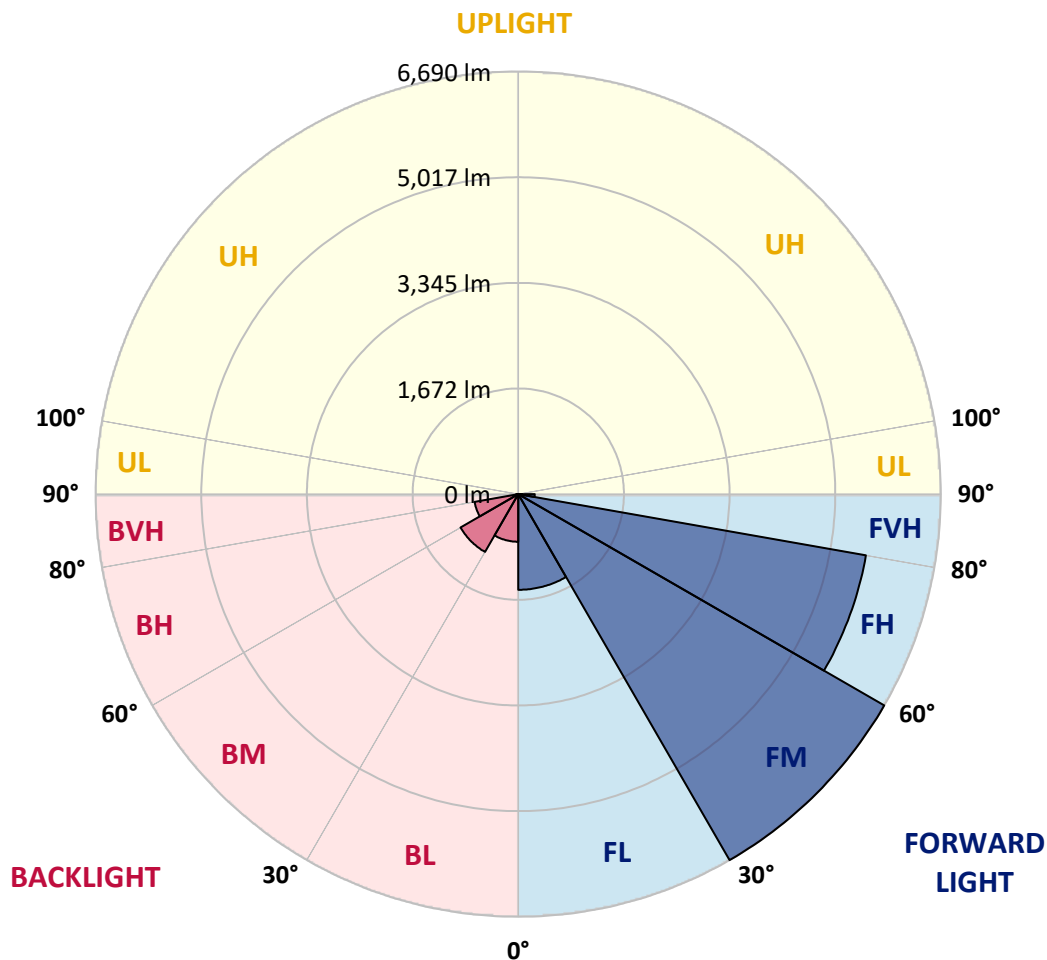
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.7	9.1			
FM (30°-60°)	6689.9	40.3			
FH (60°-80°)	5588.1	33.7			G3/7500
FVH (80°-90°)	261.7	1.6			G3/500
BL (0°-30°)	753.9	4.5	B2/1000		
BM (30°-60°)	1055.1	6.4	B2/2500		
BH (60°-80°)	702.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	34.8	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°	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8
2.5°	4688.1	4695.6	4695.6	4710.5	4660.1	4684.4	4680.6	4658.2	4665.7	4626.5	4587.2
5°	4555.5	4549.9	4579.8	4583.5	4622.7	4633.9	4643.3	4628.3	4632.1	4546.1	4508.8
7.5°	4215.6	4213.7	4264.1	4307.1	4389.3	4465.8	4516.3	4501.3	4521.9	4467.7	4379.9
10°	3812.1	3855.1	3907.4	3950.3	4101.6	4198.7	4329.5	4342.6	4421.0	4407.9	4249.2
12.5°	3509.5	3528.2	3567.4	3690.7	3828.9	3989.6	4176.3	4193.1	4269.7	4307.1	4168.9
15°	3261.1	3277.9	3328.4	3419.9	3574.9	3765.4	4002.6	4045.6	4198.7	4211.8	4064.3
17.5°	3079.9	3093.0	3126.6	3218.2	3345.2	3589.8	3814.0	3890.6	4092.3	4155.8	3955.9
20°	3009.0	2981.0	2999.6	3057.5	3184.5	3373.2	3662.7	3729.9	3987.7	4112.8	3853.2
22.5°	2977.2	2952.9	2964.1	2960.4	3061.3	3195.8	3500.2	3571.2	3888.7	4062.4	3761.7
25°	3001.5	3001.5	2990.3	2981.0	2992.2	3079.9	3324.6	3434.8	3756.1	4019.4	3668.3
27.5°	3132.2	3081.8	3087.4	3048.2	3037.0	3037.0	3246.2	3311.6	3713.1	3995.2	3591.7
30°	3216.3	3240.6	3242.4	3184.5	3126.6	3022.0	3173.3	3236.8	3677.6	4025.0	3546.9
32.5°	3431.1	3419.9	3388.1	3376.9	3291.0	3173.3	3208.8	3251.8	3657.1	4092.3	3560.0
35°	3645.9	3640.3	3642.1	3636.5	3546.9	3373.2	3304.1	3362.0	3694.4	4209.9	3604.8
37.5°	3868.1	3883.1	3946.6	3946.6	3851.3	3662.7	3571.2	3554.4	3830.8	4402.3	3711.3
40°	4090.4	4127.8	4208.1	4335.1	4200.6	4025.0	3877.5	3851.3	3995.2	4660.1	3967.1
42.5°	4303.3	4365.0	4523.7	4712.4	4667.6	4492.0	4295.9	4266.0	4333.2	5043.0	4323.9
45°	4576.0	4628.3	4878.6	5168.1	5229.7	5074.7	4845.0	4820.7	4817.0	5603.3	4815.1
47.5°	4990.7	5046.7	5297.0	5588.4	5778.9	5803.2	5545.4	5519.3	5429.6	6359.7	5534.2
50°	5509.9	5601.4	5812.5	6152.4	6428.9	6688.5	6615.6	6539.1	6363.5	7239.5	6445.7
52.5°	5889.1	6001.1	6286.9	6722.1	7209.6	7622.4	7883.8	7883.8	7480.4	8205.1	7542.0
55°	5989.9	6057.2	6417.7	7047.1	7882.0	8926.1	9473.3	9432.2	8810.3	9221.2	8817.7
57.5°	5588.4	5676.1	6113.2	6772.5	8235.0	10145.7	11051.6	11060.9	10263.4	10401.6	10076.6
60°	4482.6	4510.7	5026.2	5907.7	7895.1	11128.2	13207.0	13242.5	11916.4	11453.2	10717.3
62.5°	3098.6	3188.3	3576.8	4350.0	6540.9	11018.0	15285.8	15461.4	13240.6	12007.9	10818.1
65°	2039.6	2093.8	2301.1	2771.8	4553.6	9549.9	15932.1	16473.7	14252.9	12039.6	10396.0
67.5°	1479.3	1488.6	1550.2	1793.1	2736.3	6867.8	14828.2	15592.1	14632.1	11774.4	9406.1
70°	1195.4	1202.8	1225.3	1380.3	1766.9	4297.7	12093.8	13291.0	13494.6	10517.4	7575.7
72.5°	971.2	980.6	1008.6	1154.3	1456.9	2390.7	8843.9	10302.6	10976.9	7781.1	5035.5
75°	763.9	771.4	838.6	982.4	1369.1	1641.8	5866.7	7295.5	7387.0	4548.0	2357.1
77.5°	523.0	536.0	618.2	833.0	1288.8	1436.3	3657.1	4673.2	4193.1	1780.0	810.6
80°	332.5	351.1	399.7	631.3	1139.3	1370.9	2274.9	2790.4	1836.0	608.9	390.4
82.5°	196.1	214.8	263.4	409.0	894.7	1271.9	1602.5	1746.4	861.0	311.9	235.3
85°	108.3	121.4	158.8	246.5	524.8	1130.0	1283.2	1253.3	493.1	166.2	147.6
87.5°	35.5	41.1	57.9	99.0	216.7	532.3	769.5	722.8	255.9	76.6	57.9
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°	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8	4564.8
2.5°	4561.1	4555.5	4471.4	4407.9	4299.6	4209.9	4174.5	4125.9	4124.0	4088.5	4079.2
5°	4450.9	4393.0	4264.1	4140.8	3948.5	3819.6	3701.9	3619.7	3586.1	3513.3	3496.5
7.5°	4308.9	4232.4	4034.4	3802.8	3576.8	3375.1	3192.0	3009.0	2906.2	2870.8	2831.5
10°	4161.4	4026.9	3733.7	3474.0	3158.4	2848.3	2560.7	2303.0	2162.9	2063.9	2020.9
12.5°	4043.7	3864.4	3490.9	3102.4	2685.9	2271.2	1936.9	1666.0	1507.3	1432.6	1399.0
15°	3911.1	3673.9	3225.6	2734.4	2215.2	1744.5	1417.6	1204.7	1141.2	1105.7	1100.1
17.5°	3771.0	3496.5	2938.0	2372.1	1755.7	1313.0	1102.0	1016.1	988.0	973.1	965.6
20°	3640.3	3337.7	2642.9	1968.6	1374.7	1053.4	954.4	909.6	907.7	915.2	913.3
22.5°	3455.4	3130.4	2351.5	1595.1	1098.2	917.1	853.6	842.4	853.6	862.9	866.6
25°	3350.8	2960.4	2026.5	1266.3	907.7	814.3	793.8	790.1	806.9	818.1	816.2
27.5°	3242.4	2784.8	1723.9	1014.2	795.7	741.5	737.8	741.5	758.3	775.1	773.3
30°	3158.4	2644.8	1440.0	848.0	709.8	689.2	685.5	689.2	698.5	700.4	700.4
32.5°	3089.3	2478.5	1199.1	735.9	657.5	640.6	644.4	642.5	644.4	646.2	648.1
35°	3048.2	2379.5	1001.1	666.8	614.5	601.4	599.6	594.0	595.8	597.7	595.8
37.5°	3136.0	2331.0	844.2	618.2	584.6	573.4	569.7	565.9	560.3	560.3	560.3
40°	3268.6	2304.8	749.0	586.5	562.2	549.1	537.9	534.2	534.2	536.0	537.9
42.5°	3531.9	2347.8	683.6	562.2	534.2	519.2	508.0	509.9	515.5	521.1	517.4
45°	3913.0	2478.5	653.7	543.5	517.4	496.8	489.4	487.5	493.1	502.4	509.9
47.5°	4411.7	2682.1	642.5	526.7	506.2	478.1	468.8	474.4	481.9	495.0	489.4
50°	5227.9	3139.7	651.9	511.8	489.4	468.8	457.6	452.0	457.6	466.9	470.7
52.5°	6294.4	3970.9	687.3	504.3	478.1	461.3	442.7	433.3	438.9	446.4	446.4
55°	7570.1	5106.5	786.3	495.0	459.5	450.1	429.6	410.9	414.6	414.6	412.8
57.5°	8694.5	5963.8	904.0	481.9	448.3	435.2	409.0	386.6	382.9	384.8	386.6
60°	9198.8	6191.7	960.0	478.1	448.3	416.5	381.0	358.6	353.0	349.3	349.3
62.5°	9111.0	5797.6	846.1	461.3	459.5	401.6	354.9	330.6	323.1	315.7	317.5
65°	8580.5	5235.4	666.8	438.9	461.3	392.2	328.7	304.4	291.4	282.0	280.2
67.5°	7611.2	4469.6	528.6	422.1	442.7	375.4	306.3	278.3	267.1	257.8	254.0
70°	5954.4	3503.9	459.5	399.7	397.8	334.3	280.2	255.9	239.1	227.9	227.9
72.5°	3860.7	2215.2	394.1	354.9	343.7	280.2	242.8	227.9	214.8	205.5	205.5
75°	1748.2	1029.1	317.5	297.0	280.2	224.1	205.5	198.0	186.8	177.4	177.4
77.5°	627.6	438.9	237.2	233.5	209.2	173.7	166.2	160.6	153.2	143.8	143.8
80°	351.1	278.3	177.4	170.0	145.7	128.9	119.5	119.5	115.8	110.2	108.3
82.5°	222.3	181.2	130.7	113.9	95.3	85.9	82.2	80.3	78.4	71.0	69.1
85°	140.1	123.3	85.9	67.2	56.0	43.0	41.1	39.2	35.5	31.8	31.8
87.5°	63.5	71.0	33.6	20.5	14.9	9.3	5.6	1.9	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)